

North Georgia Region

Calhoun, Georgia:

Short-Season Corn Hybrid Performance, 2004, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Weight lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2004	2-Year Avg bu/acre	3-Year Avg						
Hytest	7799Bt	207.6	.	.	100	0.45	1.0	15.6	26027	96
AgraTech	755RRBt	200.0	.	.	102	0.44	1.5	16.5	24611	98
Pioneer	33V15	198.3	173.1	.	104	0.41	1.3	15.5	25374	98
Terral	TV26BR10n	195.5	175.7	148.8	99	0.40	1.4	15.6	26245	99
DeKalb	DKC63-52(RR2/YGCB)	190.0	.	.	109	0.37	1.8	15.3	25809	95
Croplan Genetics	691LL/Bt	189.1	166.3	.	101	0.39	1.3	15.4	26898	99
Golden Acres	8112	187.9	180.7	.	103	0.40	1.1	15.2	25483	95
Vigoro	V56Y51	187.5	.	.	105	0.40	1.5	15.9	24829	99
Hytest	7806Bt/RR	185.6	.	.	104	0.41	1.1	17.1	25265	96
Terral	TV2160Bt	184.3	181.7	150.2	101	0.40	1.1	15.6	26136	95
NK	1851W	180.6	186.1	155.6	102	0.40	1.0	16.5	24829	92
Terral	TV2140nRR	177.6	167.3	131.5	101	0.39	1.5	15.6	25047	98
Terral	TV2140	176.4	170.1	.	102	0.40	1.3	15.6	24176	94
Pioneer	34B24(YGCB)	165.9	164.3	.	100	0.35	1.8	14.9	25701	96
<i>Average</i>		187.6 ⁴	173.9	146.5	102	0.40	1.3	15.7	25459	96
<i>LSD at 10% Level</i>		N.S. ⁵	N.S.	N.S.	3	N.S.	N.S.	0.4	N.S.	3
<i>Std. Err. of Entry Mean</i>		7.7	6.7	6.2	1	0.02	0.2	0.2	1037	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.2%, and df for EMS = 26.
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, 2004.

Harvested: September 15, 2004.

Seeding Rate: 27,000 seeds/acre in 30" rows.

Soil Type: Waynesboro loam.

Soil Test: P = High, K = High, and pH = 6.1.

Fertilization: 50 lb N, 60 lb P₂O₅, and 120 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, chisel plowed, disked, and rototilled; Aatrex and Lasso used for weed control; Force and Warrior used for insect control.

Test conducted by P. A. Rose and J. Stubbs.

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2004, 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
		2004	2-Year Avg	3-Year Avg						
		bu/acre	bu/acre	bu/acre	no.	lb	rating	%	no.	%
Vigoro	V58Y41	201.7	.	.	101	0.43	1.1	16.3	26789	97
Pioneer	32D99	189.4	197.4	.	101	0.43	1.5	17.2	24720	93
Garst	8200YGI	186.5	.	.	100	0.49	1.1	17.5	22107	97
Dyna-Gro	5518	186.3	.	.	104	0.41	1.5	15.4	24720	93
DeKalb	DK697	186.1	.	.	102	0.39	1.0	16.3	26136	90
Croplan Genetics	DS830	185.6	.	.	98	0.40	1.3	16.4	26790	90
Dyna-Gro	58K22	185.2	.	.	107	0.35	1.8	15.4	27878	81
Hyttest	TNT119	185.1	.	.	100	0.41	1.1	16.4	25918	87
Pioneer	31G66	179.8	181.6	.	107	0.40	1.6	15.9	23849	98
NK	N91-R9	179.3	183.1	150.2	107	0.37	1.2	17.0	25483	90
Southern States	894RR	179.0	.	.	101	0.40	1.5	15.5	25047	92
DeKalb	DKC69-71(RR2/YGCB)	178.9	190.4	.	102	0.40	1.0	16.5	25047	98
AgraTech	919RR	174.5	.	.	103	0.42	1.8	15.7	22978	76
Golden Acres	8311	174.0	162.7	.	103	0.40	1.3	15.5	23958	93
Golden Acres	8681FQ	173.7	169.0	.	97	0.42	1.6	15.5	24176	95
Greenwood	780	173.2	174.6	.	104	0.43	1.5	15.4	21998	87
Croplan Genetics	DS822RR	170.1	189.7	.	104	0.39	1.5	18.0	24285	92
DeKalb	DKC67-60(RR2)	169.5	.	.	119	0.32	1.0	16.2	25374	94
Southern States	SS842RR	168.4	187.5	159.3	104	0.39	1.8	17.0	23958	85
Garst	8288	162.5	167.8	142.4	105	0.40	2.0	16.8	21889	95
Pioneer	31G98	160.5	.	.	120	0.32	1.6	14.7	23305	94
NK	N82-A7	151.2	.	.	102	0.40	1.9	16.8	21236	96
Hyttest	7887RR2	148.9	.	.	101	0.38	1.1	17.2	22434	93
Garst	8230IT	138.3	172.0	144.9	111	0.38	1.4	17.0	19493	95
<i>Average</i>		174.5 ⁴	179.6	149.2	104	0.40	1.4	16.3	24149	92
<i>LSD at 10% Level</i>		21.9	N.S. ⁵	N.S.	4	0.06	0.4	0.7	2726	10
<i>Std. Err. of Entry Mean</i>		9.3	6.0	6.8	2	0.02	0.2	0.3	1156	4

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 10.7%, and df for EMS = 69.
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, 2004.
 Harvested: September 15, 2004.
 Seeding Rate: 28,000 seeds/acre in 30" rows.
 Soil Type: Waynesboro loam.
 Soil Test: P = High, K = High, and pH = 6.1.
 Fertilization: 50 lb N, 60 lb P₂O₅, and 120 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Subsoiled, chisel plowed, disked, and rototilled; Aatrex and Lasso used for weed control; Force and Warrior used for insect control.

Test conducted by P. A. Rose and J. Stubbs.

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2004, 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
		2004	2-Year Avg	3-Year Avg						
		----- bu/acre	-----	-----	no.	lb	rating	%	no.	%
DeKalb	DKC63-52(RR2/YGCB)	241.3	.	.	104	0.41	1.5	16.3	32561	98
Hytest	7799Bt	221.7	.	.	101	0.44	1.4	17.1	28859	99
Terral	TV2140nRR	219.0	191.4	185.3	99	0.37	1.4	16.5	33432	88
Terral	TV2140	214.1	194.5	.	100	0.38	1.0	16.2	31799	93
Croplan Genetics	691LL/Bt	210.2	184.3	.	101	0.38	1.1	16.4	31145	99
AgraTech	755RRBt	209.9	.	.	101	0.41	1.0	18.0	29512	97
Hytest	7806Bt/RR	208.9	.	.	101	0.35	1.3	17.9	34304	80
Pioneer	34B24(YGCB)	208.1	191.6	.	100	0.40	1.6	16.0	30383	89
Terral	TV26BR10n	205.8	184.3	176.8	100	0.38	1.3	16.7	31363	96
Golden Acres	8112	203.5	171.4	.	102	0.38	1.1	16.3	30057	86
NK	1851W	198.0	184.0	184.1	101	0.34	1.0	17.2	32779	87
Pioneer	33V15	198.0	161.4	.	101	0.37	1.5	15.7	29839	97
Terral	TV2160Bt	197.6	205.0	200.8	101	0.37	1.3	16.1	30166	79
Vigoro	V56Y51	192.4	.	.	100	0.37	1.8	16.5	30057	96
<i>Average</i>		209.2 ⁴	185.3	186.7	101	0.38	1.3	16.6	31161	92
<i>LSD at 10% Level</i>		22.0	N.S. ⁵	N.S.	2	N.S.	0.3	0.8	N.S.	9
<i>Std. Err. of Entry Mean</i>		9.2	8.0	9.8	1	0.02	0.1	0.4	1483	4

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.8%, 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, 2004.
 Harvested: September 14, 2004.
 Seeding Rate: 35,000 seeds/acre in 30" rows.
 Soil Type: Rome gravelly clay loam.
 Soil Test: P = High, K = High, and pH = 6.1.
 Fertilization: 75 lb N, 90 lb P₂O₅, and 180 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Subsoiled, chisel plowed, disked, and rototilled; Aatrex and Lasso used for weed control; Force and Warrior used for insect control; irrigated 6.0 inches.

Test conducted by P. A. Rose and J. Stubbs.

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2004, 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
		2004	2-Year Avg	3-Year Avg						
		----- bu/acre -----			no.	lb	rating	%	no.	%
Pioneer	32D99	220.3	219.7	.	104	0.48	1.6	17.8	25591	96
DeKalb	DK697	217.2	.	.	102	0.40	1.0	16.4	30274	90
Greenwood	780	217.2	191.2	.	105	0.44	1.3	16.9	27116	96
NK	N91-R9	214.4	190.9	188.6	102	0.41	1.6	17.4	29403	86
DeKalb	DKC69-71(RR2/YGCB)	214.3	198.1	.	104	0.42	1.1	17.1	27770	93
Pioneer	31G66	208.0	216.9	.	103	0.41	1.1	17.1	27770	97
Garst	8230IT	204.2	176.2	182.7	105	0.43	1.3	17.2	26245	97
Dyna-Gro	5518	203.5	.	.	102	0.38	1.3	16.2	29512	87
Garst	8200YGI	203.0	.	.	100	0.43	1.4	17.7	27443	97
AgraTech	919RR	202.4	.	.	102	0.39	1.5	16.1	29294	92
Dyna-Gro	58K22	201.3	.	.	100	0.46	1.3	16.6	25047	96
Croplan Genetics	DS822RR	200.5	202.2	.	104	0.38	1.6	18.4	29730	80
Vigoro	V58Y41	200.4	.	.	101	0.47	1.0	16.9	24285	100
Hytest	TNT119	199.1	.	.	101	0.38	1.1	16.3	29403	81
Golden Acres	8311	198.4	182.8	.	102	0.43	1.3	16.4	26027	96
Southern States	SS842RR	198.0	197.9	195.0	105	0.40	1.4	18.6	27225	78
Pioneer	31G98	196.8	.	.	115	0.38	1.8	15.8	25918	90
Southern States	894RR	192.3	.	.	104	0.40	1.4	16.9	26790	92
DeKalb	DKC67-60(RR2)	192.1	.	.	119	0.34	1.3	16.7	27116	94
NK	N82-A7	192.1	.	.	101	0.42	1.4	17.8	25918	98
Garst	8288	189.4	175.8	182.3	105	0.43	1.3	17.2	23849	95
Golden Acres	8681FQ	179.5	164.2	.	101	0.36	1.0	17.0	28532	92
Croplan Genetics	DS830	176.3	.	.	100	0.46	1.3	17.2	21889	85
Hytest	7887RR2	174.9	.	.	99	0.37	1.0	18.0	27661	83
<i>Average</i>		199.8 ⁴	192.3	187.2	103	0.41	1.3	17.1	27075	91
<i>LSD at 10% Level</i>		21.5	N.S. ⁵	N.S.	4	0.04	N.S.	0.8	3129	8
<i>Std. Err. of Entry Mean</i>		9.1	6.6	8.4	1	0.02	0.2	0.3	1327	3

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 9.1%, and df for EMS = 69.
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, 2004.
 Harvested: September 14, 2004.
 Seeding Rate: 31,000 seeds/acre in 30" rows.
 Soil Type: Rome gravelly clay loam.
 Soil Test: P = High, K = High, and pH = 6.1.
 Fertilization: 75 lb N, 90 lb P₂O₅, and 180 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Subsoiled, chisel plowed, disked, and rototilled; Aatrex and Lasso used for weed control; Force and Warrior used for insect control; irrigated 6.0 inches.

Test conducted by P. A. Rose and J. Stubbs.

Blairsville, Georgia: Corn Hybrid Performance, 2004, Nonirrigated

Corn grain test was conducted at Blairsville but was not harvestable due to wind and water damage from two tropical depressions (hurricanes). The remnants of Hurricane Ivan caused 100% lodging of the grain test and it remained under water for more than three days.
