

North Georgia Region

Calhoun, Georgia:

Short-Season Corn Hybrid Performance, 2005, 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
		2005	2-Year Avg	3-Year Avg						
		----- bu/acre	-----	-----	no.	lb	rating	%	no.	%
Terral	TV27C48	201.8	.	.	122	0.44	1.6	15.7	21612	98
Terral	TV26BR41(RR/YGCB)	201.2	.	.	100	0.50	1.1	15.0	22484	100
Terral	TV25BR23(RR/YGCB)	194.7	.	.	102	0.48	1.8	14.6	21998	100
Terral	TV25R31(RR)	187.1	.	.	100	0.46	1.5	14.8	22774	100
Terral	TV23R31(RR)	185.2	.	.	106	0.44	1.0	14.9	22325	99
Terral	TV26B34(YGCB)	179.6	.	.	107	0.47	1.4	14.6	20030	100
NK	1851W	172.8	176.7	181.6	101	0.43	1.1	15.4	22484	100
Golden Acres	8112	172.5	180.2	178.0	115	0.47	1.3	14.4	17692	100
SS	692BT	172.2	.	.	110	0.47	1.0	14.4	18763	100
AgraTech	733RR	168.5	.	.	102	0.48	1.3	15.0	19304	100
Pioneer	34B24(YGCB)	165.8	165.9	164.8	110	0.44	1.6	14.3	19014	100
Croplan Genetics	731HX/LL	165.1	.	.	114	0.45	1.3	14.8	17997	99
Pioneer	33M54	163.8	.	.	103	0.46	1.5	14.9	19289	100
DeKalb	DKC61-72(RR2)	161.9	.	.	107	0.44	1.9	14.2	19580	98
Pioneer	33V15	159.9	179.1	168.7	116	0.45	1.3	14.6	17256	99
Croplan Genetics	692RR2/BT	159.7	.	.	105	0.42	1.5	15.2	20596	100
Hyttest	7799Bt	158.2	182.9	.	108	0.42	1.1	14.6	19740	100
Pioneer	33H25	137.6	.	.	124	0.35	1.6	14.3	17422	100
<i>Average</i>		172.6 ⁴	176.9	173.3	108	0.45	1.4	14.7	20020	100
<i>LSD at 10% Level</i>		14.6	N.S. ⁵	N.S.	9	0.06	0.5	0.4	2149	N.S.
<i>Std. Err. of Entry Mean</i>		6.1	6.2	5.0	4	0.02	0.2	0.2	907	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 7.1%, and df for EMS = 51.
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 20, 2005.

Harvested: September 27, 2005.

Seeding Rate: 24,400 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

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

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

Previous Crop: Soybeans.

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

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

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2005, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Weight	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2005	2-Year Avg bu/acre	3-Year Avg						
Croplan Genetics	851RR2/BT	208.3	.	.	104	0.54	1.0	15.1	20909	100
DeKalb	DKC69-71(RR2/YGCB)	189.0	183.9	189.9	107	0.45	1.0	15.5	21960	100
SS	842RR2/YGCB	188.3	.	.	111	0.49	1.1	15.9	19602	98
NK	N91-R9	185.5	182.4	183.9	101	0.56	1.0	15.9	18404	100
AgraTech	755RR	185.3	.	.	109	0.46	1.1	14.9	20653	100
DynaGro	CX04520	181.4	.	.	117	0.48	1.0	15.0	18131	100
Vigoro	V58Y41	179.0	190.3	.	107	0.45	1.1	15.2	21050	100
Pioneer	31G66	176.7	178.3	180.0	117	0.50	1.0	15.2	16977	100
Golden Acres	8311	174.5	174.2	166.6	100	0.47	1.0	15.1	20904	100
AgraTech	755RRbtCRW	167.1	.	.	109	0.47	1.0	14.9	18187	100
DynaGro	CX05516	165.8	.	.	105	0.44	1.0	14.9	20178	100
Hyttest	7806RR2/BT	163.9	.	.	106	0.48	1.1	15.8	18131	100
Vigoro	V62R66	147.6	.	.	116	0.43	1.0	15.0	16679	99
Golden Acres	8681FQ	136.8	155.2	158.3	101	0.49	1.0	16.4	15682	100
<i>Average</i>		174.9 ⁴	177.4	175.7	108	0.48	1.0	15.3	19103	100
<i>LSD at 10% Level</i>		17.0	N.S. ⁵	10.4	7	0.04	N.S.	0.2	2124	N.S.
<i>Std. Err. of Entry Mean</i>		7.1	5.9	4.4	3	0.02	0.1	0.1	891	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 = 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 20, 2005.

Harvested: September 28, 2005.

Seeding Rate: 23,000 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

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

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

Previous Crop: Soybeans.

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

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

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2005, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Weight	Grain Quality ²	Grain Moist. ³	Plant Pop. no.	Erect Plants %
		2005	2-Year Avg	3-Year Avg						
Terral	TV27C48	211.6	.	.	105	0.47	1.0	15.5	24301	100
Terral	TV26BR41(RR/YGCB)	206.4	.	.	100	0.48	1.0	14.9	24156	100
Terral	TV25R31(RR)	198.0	.	.	103	0.44	1.1	14.6	24290	100
Terral	TV23R31(RR)	197.2	.	.	106	0.44	1.0	14.8	23740	100
Pioneer	33V15	195.9	196.9	172.9	110	0.43	1.0	14.5	22880	99
Terral	TV25BR23(RR/YGCB)	194.6	.	.	105	0.44	1.0	14.6	23740	100
Terral	TV26B34(YGCB)	193.5	.	.	116	0.48	1.0	14.7	19945	100
Croplan Genetics	731HX/LL	191.8	.	.	103	0.45	1.0	14.8	23140	100
Hyttest	7799Bt	189.6	205.7	.	99	0.48	1.1	14.6	22184	100
Croplan Genetics	692RR2/BT	185.8	.	.	102	0.43	1.0	14.9	23751	100
SS	692BT	184.2	.	.	101	0.42	1.0	14.2	24591	100
Pioneer	33M54	183.6	.	.	110	0.44	1.0	14.9	21397	100
NK	1851W	182.6	190.3	183.5	101	0.41	1.0	14.9	24580	99
DeKalb	DKC61-72(RR2)	180.0	.	.	109	0.40	1.4	13.9	22880	100
Pioneer	33H25	179.1	.	.	110	0.42	1.0	14.5	21386	99
Golden Acres	8112	177.7	190.6	173.5	108	0.42	1.0	14.4	21821	100
AgraTech	733RR	165.5	.	.	106	0.43	1.0	14.6	19976	99
Pioneer	34B24(YGCB)	157.6	182.8	180.2	99	0.42	1.0	14.6	21748	100
<i>Average</i>		187.5 ⁴	193.3	177.5	105	0.44	1.0	14.7	22806	100
<i>LSD at 10% Level</i>		15.6	N.S. ⁵	N.S.	N.S.	N.S.	0.2	0.3	N.S.	-
<i>Std. Err. of Entry Mean</i>		6.6	6.1	5.6	3	0.02	0.1	0.1	1198	-

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 7.0%, and df for EMS = 51.
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 20, 2005.
 Harvested: September 28, 2005.
 Seeding Rate: 26,500 seeds/acre in 30" rows.
 Soil Type: Rome gravelly clay loam.
 Soil Test: P = High, K = High, and pH = 6.2.
 Fertilization: 75 lb N, 90 lb P₂O₅, and 180 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Moldboard plowed, disked, and rototilled; Atrazine, Lasso, Accent and one cultivation used weed control; Irrigated 0 inches.

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

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2005, 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
		2005	2-Year Avg	3-Year Avg						
		----- bu/acre -----			no.	lb	rating	%	no.	%
Croplan Genetics	851RR2/BT	209.5	.	.	97	0.50	1.1	15.2	23849	100
Vigoro	V58Y41	206.7	203.6	.	105	0.47	1.0	15.3	23522	100
Pioneer	31G66	205.0	206.5	212.9	107	0.51	1.0	15.4	21268	99
DeKalb	DKC69-71(RR2/YGCB)	202.3	208.3	199.5	100	0.46	1.0	15.5	24761	100
AgraTech	755RR	196.2	.	.	98	0.49	1.0	14.9	22865	99
DynaGro	CX04520	193.4	.	.	103	0.48	1.0	14.8	21862	100
Hytest	7806RR2/BT	191.7	.	.	106	0.48	1.0	15.4	21127	100
SS	842RR2/YGCB	190.9	.	.	104	0.44	1.0	15.4	24176	100
DynaGro	CX05516	189.3	.	.	109	0.44	1.0	15.0	21998	98
NK	N91-R9	188.4	201.4	190.1	102	0.47	1.0	15.8	22443	98
AgraTech	755RRbtCRW	180.6	.	.	105	0.49	1.1	15.3	19961	100
Vigoro	V62R66	180.3	.	.	104	0.45	1.0	15.1	21671	99
Golden Acres	8681FQ	170.8	175.1	166.4	101	0.50	1.1	15.8	18949	99
Golden Acres	8311	165.7	182.0	177.1	103	0.42	1.0	14.9	21671	100
<i>Average</i>		190.8 ⁴	196.1	189.2	103	0.47	1.0	15.2	22152	99
<i>LSD at 10% Level</i>		13.4	11.9	12.1	5	N.S. ⁵	N.S.	0.4	2498	N.S.
<i>Std. Err. of Entry Mean</i>		5.6	5.0	4.6	2	0.02	0.1	0.2	1048	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 5.9%, 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 20, 2005.

Harvested: September 28, 2005.

Seeding Rate: 25,500 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

Soil Test: P = High, K = High, and pH = 6.2.

Fertilization: 75 lb N, 90 lb P₂O₅, and 180 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked, and rototilled; Atrazine, Lasso, Accent and one cultivation used weed control; Irrigated 0 inches.

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

Blairsville, Georgia: Short-Season Corn Hybrid Performance, 2005, 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
		2005	2-Year Avg*						
		--- bu/acre ---	---	no.	lb	rating	%	no.	%
SS	692BT	229.5	.	104	0.49	1.1	20.2	27104	100
Hytest	7799Bt	221.8	.	100	0.51	1.0	19.8	25652	100
Pioneer	33V15	216.8	201.5	109	0.46	1.3	19.5	25773	100
Croplan Genetics	731HX/LL	216.3	.	101	0.47	1.3	21.2	27225	100
Terral	TV25BR23(RR/YGCB)	216.0	.	101	0.48	1.1	21.1	26741	100
Vigoro	V56Y51	212.7	.	105	0.45	1.1	20.1	26620	100
Terral	TV23R31(RR)	203.1	.	103	0.45	1.0	22.0	26620	100
Croplan Genetics	692RR2/BT	202.9	.	103	0.47	1.0	22.1	25652	100
DeKalb	DKC61-72(RR2)	201.2	.	117	0.40	1.8	19.4	25773	100
NK	1851W	200.3	212.5	103	0.44	1.0	21.6	26741	100
Golden Acres	8112	199.2	.	106	0.42	1.0	20.5	26741	100
Pioneer	33H25	197.5	.	109	0.41	1.0	20.3	26499	100
Terral	TV25R31(RR)	192.6	.	110	0.46	1.0	22.5	23232	100
AgraTech	733RR	192.2	.	98	0.49	1.0	20.9	24442	100
<i>Average</i>		207.3 ⁴	207.0	105	0.46	1.1	20.8	26058	100
<i>LSD at 10% Level</i>		17.2	N.S. ⁵	5	0.05	0.3	0.7	N.S.	-
<i>Std. Err. of Entry Mean</i>		7.2	7.7	2	0.02	0.1	0.3	872	-

* 2003 and 2005.

1. Yields calculated at 15.5% moisture.

2. Grain quality rating: 1 = excellent to 5 = poor.

3. Grain moisture at harvest.

4. CV = 7.0%, 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 9, 2005.

Harvested: October 11, 2005.

Seeding Rate: 27,800 seeds/acre in 30" rows.

Soil Type: Bradson clay loam.

Soil Test: P = High, K = High, and pH = 6.2.

Fertilization: 30 lb N, 60 lb P₂O₅, and 90 lb K₂O/acre as preplant; 170 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed and disked; Atrazine, Bicep, and one cultivation used for weed control.

Test conducted by P. A. Rose and H. D. Garrett.

Blairsville, Georgia: Mid-Season Corn Hybrid Performance, 2005, 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
		2005	2-Year Avg*						
DeKalb	DKC69-71(RR2/YGCB)	229.0	217.6	112	0.52	1.3	22.6	24321	100
Pioneer	31G66	225.3	223.5	118	0.50	1.0	21.5	23474	100
AgraTech	755RR	219.0	.	105	0.54	1.1	21.9	23353	100
Vigoro	V58Y41	218.4	.	107	0.54	1.3	22.9	23232	100
Croplan Genetics	851RR2/BT	217.0	.	101	0.54	1.0	22.5	24079	100
Hyttest	7806RR2/BT	216.7	.	112	0.49	1.0	22.0	24200	100
NK	N91-R9	214.7	217.2	111	0.51	1.0	21.0	22869	100
SS	842RR2/YGCB	211.7	.	107	0.53	1.1	23.9	23111	100
DynaGro	CX04520	209.0	.	135	0.43	1.3	22.6	22022	100
DynaGro	CX05516	202.3	.	103	0.49	1.1	20.8	23958	100
Golden Acres	2295RR	191.6	.	102	0.47	1.0	22.8	24684	100
<i>Average</i>		214.1 ⁴	219.4	110	0.51	1.1	22.2	23573	100
<i>LSD at 10% Level</i>		N.S. ⁵	N.S.	7	0.05	N.S.	0.8	N.S.	-
<i>Std. Err. of Entry Mean</i>		9.1	6.6	3	0.02	0.1	0.3	970	-

* 2003 and 2005.

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 = 30.
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 9, 2005.
 Harvested: October 11, 2005.
 Seeding Rate: 25,000 seeds/acre in 30" rows.
 Soil Type: Bradson clay loam.
 Soil Test: P = High, K = High, and pH = 6.2.
 Fertilization: 30 lb N, 60 lb P₂O₅, and 90 lb K₂O/acre as preplant; 170 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Moldboard plowed and disked; Atrazine, Bicep, and one cultivation used for weed control.

Test conducted by P. A. Rose and H. D. Garrett.