

Grain Tests Results

Coastal Plain Region

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2005

Company or Brand Name	Variety	Yield					Irrigated Average
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	
----- bu/acre -----							
<u>Short-Season</u>							
Terral	TV25R31(RR)	161.6	161.6	171.8	163.0	149.8	161.5
Terral	TV26B34(YGCB)	161.4	157.6	178.9	166.2	142.7	162.6
Terral	TV25BR23(RR/YGCB)	154.0	166.8	173.3	158.2	117.7	149.7
Terral	TV27C48	153.2	163.6	157.7	154.2	137.3	149.7
Terral	TV26BR41(RR/YGCB)	152.9	154.1	157.2	173.9	126.6	152.5
SS	692BT	152.7	140.8	162.1	167.0	141.0	156.7
SS	746RRBT	151.5	145.0	177.3	145.4	138.5	153.7
Croplan Genetics	731HX/LL	151.5	169.6	160.6	160.1	115.9	145.5
Hystest	7799Bt	151.3	158.8	158.0	154.9	133.5	148.8
Pioneer	33M54	151.2	150.2	176.1	140.4	138.0	151.5
Croplan Genetics	799Bt	151.0	147.8	177.2	141.8	137.0	152.0
Hystest	7729Hx/LL	150.8	164.0	161.9	149.0	128.5	146.4
Terral	TV23R31(RR)	149.0	144.1	171.7	150.7	129.3	150.6
DeKalb	DKC61-72(RR2)	143.4	152.0	169.9	144.7	107.2	140.6
Terral	TV2140nRR	143.3	155.4	162.5	138.3	116.9	139.2
AgraTech	733RR	141.5	136.0	160.8	159.5	109.8	143.4
NK	1851W	141.2	151.0	151.4	152.4	110.2	138.0
Pioneer	33H25	139.6	145.2	148.4	134.9	130.0	137.7
Vigoro	V56Y51	137.9	156.1	174.5	135.9	85.1	131.9
Golden Acres	8112	134.5	131.6	149.0	152.6	104.6	135.4
<i>Average</i>		148.7	152.6	165.0	152.1	125.0	147.4
<i>LSD at 10% Level</i>		10.3	13.4	17.8	N.S. ¹	23.0	12.3
<i>Std. Err. of Entry Mean</i>		4.4	5.7	7.6	9.9	9.6	5.3

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2005 (Continued)

Company or Brand Name	Variety	Yield					Irrigated Average
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	
		----- bu/acre -----					
<u>Mid-Season</u>							
Monsanto	NC6901	176.1	145.4	195.4	168.3	195.3	186.3
Garst	8200YG1	171.5	159.4	185.8	182.2	158.8	175.6
DeKalb	DKC69-72(RR2)	169.2	163.6	187.5	163.8	161.9	171.1
Pioneer	31G66	169.1	149.2	189.7	156.6	181.1	175.8
DeKalb	DKC69-71(RR2/YGCB)	167.7	145.0	191.9	174.8	159.0	175.2
Garst	8292YG1	167.4	132.9	185.3	176.3	175.2	178.9
Dyna-Gro	58P59	167.2	144.2	187.5	183.3	153.6	174.8
Pioneer	32D99	164.6	163.3	181.8	171.2	142.2	165.0
DeKalb	DKC66-21(YGCB)	163.6	148.4	175.6	164.6	166.0	168.7
Monsanto	NC6702	162.6	152.1	188.1	159.2	151.0	166.1
Pioneer	31N26(RR2)	161.9	160.9	189.4	143.0	154.3	162.2
DeKalb	DKC67-60(RR2)	161.8	155.2	168.8	156.5	166.5	164.0
Vigoro	V58Y41	161.1	166.8	171.5	169.9	136.2	159.2
Hyttest	7806RR2/BT	161.1	166.6	170.4	152.6	154.7	159.2
Dyna-Gro	58K22	160.1	154.8	173.1	176.4	136.1	161.8
Monsanto	NC6704NRR1	159.8	165.2	169.8	157.0	147.3	158.0
Hyttest	7891RR2/BT	159.0	152.7	175.2	165.1	142.9	161.1
DynaGro	58K40	157.4	149.3	165.4	165.5	149.5	160.1
Croplan Genetics SS	851RR2/BT 804	157.1 156.7	152.3 168.7	190.2 155.7	162.0 151.4	124.0 150.9	158.7 152.7
AgraTech SS	755RR 842RR2/YGCB	155.4 154.2	154.2 166.3	164.2 159.4	157.6 179.0	145.4 112.0	155.7 150.1
Vigoro	V62R66	153.5	148.5	158.2	151.7	155.5	155.1
Croplan Genetics NK	822RR2/BT N91-R9	152.0 151.1	150.3 140.2	184.6 181.6	165.5 164.3	107.6 118.2	152.6 154.7
Golden Acres	2295RR	150.2	161.3	162.8	176.4	100.3	146.5
DynaGro	CX04520	149.7	151.3	172.6	159.6	115.6	149.2
Croplan Genetics	820RR2/BT	146.8	148.9	159.9	155.7	122.8	146.1
DynaGro	CX05516	146.8	166.7	155.8	144.2	120.6	140.2
Hyttest	7924RR2/BT	144.2	151.6	189.0	154.1	82.1	141.7
Vigoro	V59YR52	143.9	145.1	156.9	156.3	117.3	143.5
<i>Average</i>		158.8	154.2	175.6	163.3	142.0	160.3
<i>LSD at 10% Level</i>		11.0	N.S.	16.2	16.9	20.0	10.2
<i>Std. Err. of Entry Mean</i>		4.7	8.9	6.9	7.2	8.5	4.4

1. 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).

Tifton, Georgia: Short-Season Corn Hybrid Performance, 2005, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/ 100 Plants ²	Ear Grain Wt ² lb	Grain Qual. ² rating	Moist. ³ %	Plant Pop. no..	Erect Plants %	Leaf Rust ⁴ rating	SCLB ⁵ rating	
		2-Year 2005	3-Year Avg									
				----- bu/acre	-----							
Croplan Genetics	731HX/LL	169.6	.	.	101	0.35	1.5	10.6	25483	86	2	2
Terral	TV25BR23(RR/YGCB)	166.8	.	.	100	0.36	2.0	10.9	24611	91	3	2
Hyttest	7729Hx/LL	164.0	184.6	.	103	0.34	1.8	10.6	24829	81	3	2
Terral	TV27C48	163.6	.	.	111	0.33	1.5	11.8	24176	96	2	2
Terral	TV25R31(RR)	161.6	.	.	103	0.36	2.0	12.4	23849	100	3	3
Hyttest	7799Bt	158.8	174.0	.	100	0.37	1.8	11.3	22869	93	3	2
Terral	TV26B34(YGCB)	157.6	.	.	100	0.37	2.0	10.9	22760	89	2	2
Vigoro	V56Y51	156.1	167.2	.	101	0.32	2.0	10.7	25374	100	2	2
Terral	TV2140nRR	155.4	177.4	165.3	105	0.34	1.8	11.6	23196	84	3	2
Terral	TV26BR41(RR/YGCB)	154.1	.	.	100	0.36	1.8	11.4	22978	93	3	2
DeKalb	DKC61-72(RR2)	152.0	.	.	102	0.31	3.0	9.4	25483	100	3	2
NK	1851W	151.0	170.6	166.0	101	0.32	1.0	12.0	25374	79	3	2
Pioneer	33M54	150.2	171.9	161.0	107	0.36	1.5	11.4	20691	99	3	2
Croplan Genetics	799Bt	147.8	175.8	.	100	0.34	1.8	11.0	23196	96	3	3
Pioneer	33H25	145.2	.	.	101	0.31	2.3	10.2	24503	98	4	3
SS	746RRBT	145.0	.	.	101	0.32	1.8	10.5	23958	99	3	2
Terral	TV23R31(RR)	144.1	.	.	102	0.32	1.5	11.5	23631	94	3	2
SS	692BT	140.8	.	.	99	0.34	2.3	10.0	22107	100	3	2
AgraTech	733RR	136.0	154.4	152.0	100	0.30	1.5	10.8	23958	84	3	2
Golden Acres	8112	131.6	158.8	158.1	104	0.29	2.0	10.6	23196	90	3	2
<i>Average</i>		152.6 ⁶	170.5	160.5	102	0.34	1.8	11.0	23811	92	3	2
<i>LSD at 10% Level</i>		13.4	9.7	N.S. ⁷	3	0.03	0.6	0.7	1482	N.S.	1	1
<i>Std. Err. of Entry Mean</i>		5.7	4.1	3.6	2	0.01	0.2	0.3	627	6	1	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. Leaf Rust rating: 1 = resistant to 5 = highly susceptible.
5. Southern Corn Leaf Blight rating: 1 = resistant to 5 = highly susceptible.
6. CV = 7.4%, and df for EMS = 57.
8. 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 12, 2005.
 Harvested: September 6, 2005.
 Seeding Rate: 26,500 seeds/acre in 30" rows.
 Soil Type: Tifton loamy sand.
 Soil Test: P = High, K = Medium, and pH = 6.1
 Fertilization: 105 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre as preplant; 111 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Subsoiled and rototilled; Sutan+, Prowl, and Atrazine used for weed control; Lorsban used for insect control; Telone II used for nematode control.

Test conducted by A. E. Coy, R. Bennett, R. Brooke, and R. Burton.

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

Company or Brand Name	Hybrid Name	Yield ¹		Ears/ 100 Plants ² no.	Ear Grain Wt ² lb	Grain Qual. ² rating	Moist. ³ %	Plant Pop. no..	Erect Plants %	Leaf Rust ⁴ rating	SCLB ⁵ rating	
		2005	2-Year Avg bu/acre									3-Year Avg
SS	804	168.7	.	.	107	0.40	1.5	11.8	21344	100	3	3
Vigoro	V58Y41	166.8	174.1	.	101	0.40	1.8	11.8	22325	92	3	3
DynaGro	CX05516	166.7	.	.	100	0.43	2.0	12.2	21236	100	2	2
Hyttest	7806RR2/BT	166.6	.	.	106	0.37	2.0	11.7	23196	99	3	3
SS	842RR2/YGCB	166.3	.	.	103	0.39	2.3	11.7	22542	83	3	2
Monsanto	NC6704NRR1	165.2	.	.	103	0.41	1.5	11.7	20909	99	3	3
DeKalb	DKC69-72(RR2)	163.6	184.9	.	103	0.39	1.8	12.0	21889	100	2	3
Pioneer	32D99	163.3	185.7	171.4	101	0.41	1.8	11.1	21236	86	2	2
Golden Acres	2295RR	161.3	.	.	100	0.40	2.0	12.2	21562	96	3	3
Pioneer	31N26(RR2)	160.9	.	.	110	0.35	1.3	11.3	22651	98	3	2
Garst	8200YG1	159.4	176.2	.	100	0.39	1.0	12.0	21889	99	3	2
DeKalb	DKC67-60(RR2)	155.2	172.1	.	132	0.26	1.3	12.0	24394	99	2	2
DynaGro	58K22	154.8	169.8	.	101	0.38	1.5	11.5	21562	100	3	3
AgraTech	755RR	154.2	.	.	102	0.38	2.3	11.7	21453	86	3	2
Hyttest	7891RR2/BT	152.7	.	.	102	0.35	2.0	11.1	22542	91	3	2
Croplan Genetics	851RR2/BT	152.3	.	.	101	0.37	2.0	11.2	22107	92	3	2
Monsanto	NC6702	152.1	.	.	108	0.32	1.5	11.7	23849	100	3	2
Hyttest	7924RR2/BT	151.6	.	.	101	0.35	2.0	11.6	23414	89	3	2
DynaGro	CX04520	151.3	.	.	109	0.35	1.3	10.9	21453	100	3	2
Croplan Genetics	822RR2/BT	150.3	.	.	104	0.34	2.0	11.8	23196	79	2	3
DynaGro	58K40	149.3	.	.	121	0.31	1.0	11.8	21562	100	2	2
Pioneer	31G66	149.2	173.4	164.7	107	0.35	2.0	11.6	21562	90	2	3
Croplan Genetics	820RR2/BT	148.9	.	.	103	0.37	2.0	11.5	21018	99	3	3
Vigoro	V62R66	148.5	.	.	112	0.32	1.5	11.8	22325	99	3	2
DeKalb	DKC66-21(YGCB)	148.4	.	.	102	0.36	2.0	11.9	21562	82	3	3
Monsanto	NC6901	145.4	.	.	104	0.32	1.8	11.3	23631	100	2	2
Vigoro	V59YR52	145.1	.	.	102	0.36	2.0	12.6	21562	99	3	3
DeKalb	DKC69-71(RR2/YGCB)	145.0	167.8	166.9	105	0.32	1.3	11.2	22869	95	2	2
DynaGro	58P59	144.2	.	.	103	0.33	2.0	11.6	22651	93	3	2
NK	N91-R9	140.2	167.0	159.3	104	0.30	1.8	11.3	23631	87	2	2
Garst	8292YG1	132.9	.	.	105	0.32	1.8	13.7	22107	100	2	2
<i>Average</i>		154.2 ⁶	174.5	165.6	105	0.36	1.7	11.7	22233	94	2	2
<i>LSD at 10% Level</i>		N.S. ⁷	N.S.	N.S.	6	0.05	0.5	1.4	N.S.	11.0	1	1
<i>Std. Err. of Entry Mean</i>		8.9	5.2	4.1	3	0.02	0.2	0.6	840	5	1	1

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2005, Nonirrigated (Continued)

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. Leaf Rust rating: 1 = resistant to 5 = highly susceptible.
5. Southern Corn Leaf Blight rating: 1 = resistant to 5 = highly susceptible.
6. CV = 11.6%, and df for EMS = 90.
8. 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 12, 2005.

Harvested: September 6, 2005.

Seeding Rate: 24,500 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: 105 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre as preplant; 111 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled and rototilled; Sutan+, Prowl, and Atrazine used for weed control; Lorsban used for insect control; Telone II used for nematode control.

Test conducted by A. E. Coy, R. Bennett, R. Brooke, and R. Burton.

Tifton, 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 bu/acre	3-Year Avg						
Terral	TV26B34(YGCB)	178.9	.	.	100	0.34	2.0	11.9	28096	70
SS	746RRBT	177.3	.	.	99	0.32	1.3	11.6	30165	96
Croplan Genetics	799Bt	177.2	200.1	.	97	0.37	1.5	11.6	27007	90
Pioneer	33M54	176.1	199.8	196.8	104	0.32	1.3	11.7	28859	97
Vigoro	V56Y51	174.5	196.8	.	100	0.29	2.3	11.6	31908	98
Terral	TV25BR23(RR/YGCB)	173.3	.	.	100	0.31	2.0	11.3	29621	82
Terral	TV25R31(RR)	171.8	.	.	101	0.34	1.5	12.3	27443	96
Terral	TV23R31(RR)	171.7	.	.	100	0.30	1.0	11.5	31146	84
DeKalb	DKC61-72(RR2)	169.9	.	.	100	0.31	2.8	11.3	29730	100
Terral	TV2140nRR	162.5	199.3	203.7	100	0.30	2.0	11.3	29076	83
SS	692BT	162.1	.	.	98	0.30	1.8	10.7	29403	99
Hystest	7729Hx/LL	161.9	197.4	.	100	0.33	2.3	11.4	26136	52
AgraTech	733RR	160.8	180.2	190.5	100	0.29	2.0	12.1	29730	70
Croplan Genetics	731HX/LL	160.6	.	.	100	0.30	2.0	11.6	28859	67
Hystest	7799Bt	158.0	191.9	.	100	0.35	1.3	13.1	24938	90
Terral	TV27C48	157.7	.	.	105	0.29	2.0	12.4	27879	98
Terral	TV26BR41(RR/YGCB)	157.2	.	.	101	0.31	1.8	12.0	27770	77
NK	1851W	151.4	185.0	194.4	100	0.30	1.0	11.9	27225	69
Golden Acres	8112	149.0	186.5	197.1	100	0.27	1.0	11.7	29403	84
Pioneer	33H25	148.4	.	.	100	0.27	1.5	10.8	29621	81
<i>Average</i>		165.0 ⁴	193.0	196.5	100	0.31	1.7	11.7	28701	84
<i>LSD at 10% Level</i>		17.8	N.S. ⁵	N.S.	2	0.04	0.6	0.9	2588	15
<i>Std. Err. of Entry Mean</i>		7.6	3.5	2.8	1	0.02	0.2	0.4	1094	6

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 = 57.
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 13, 2005.

Harvested: September 5, 2005.

Seeding Rate: 32,000 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: 95 lb N, 140 lb P₂O₅, and 210 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled and bedded; rototilled; Sutan+, Prowl, and Atrazine used for weed control; Lorsban used for insect control; Telone II used for nematode control; irrigated 3.0 inches.

Test conducted by A. E. Coy, R. Bennett, R. Brooke, and R. Burton.

Tifton, 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. no.	Erect Plants %
		2005	2-Year Avg	3-Year Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Monsanto	NC6901	195.4	.	.	102	0.36	2.3	13.4	28968	100
DeKalb	DKC69-71(RR2/YGCB)	191.9	207.6	220.9	102	0.39	1.0	13.9	27007	97
Croplan Genetics	851RR2/BT	190.2	.	.	99	0.38	1.8	12.8	27116	95
Pioneer	31G66	189.7	205.6	213.8	102	0.38	2.0	12.6	26463	91
Pioneer	31N26(RR2)	189.4	.	.	106	0.35	1.3	13.0	27770	94
Hytest	7924RR2/BT	189.0	.	.	100	0.35	2.0	13.3	29621	90
Monsanto	NC6702	188.1	.	.	105	0.34	1.5	13.3	28967	100
DeKalb	DKC69-72(RR2)	187.5	208.0	.	100	0.37	1.5	13.8	27987	100
DynaGro	58P59	187.5	.	.	100	0.36	2.0	12.4	28096	94
Garst	8200YG1	185.8	206.2	.	100	0.39	1.3	14.2	26245	99
Garst	8292YG1	185.3	.	.	105	0.37	2.0	13.5	26136	97
Croplan Genetics	822RR2/BT	184.6	.	.	100	0.34	2.5	13.9	30165	95
Pioneer	32D99	181.8	217.5	220.7	100	0.36	2.0	13.5	27770	86
NK	N91-R9	181.6	202.8	214.0	103	0.35	1.5	14.0	27987	86
DeKalb	DKC66-21(YGCB)	175.6	.	.	101	0.33	1.8	13.3	28641	87
Hytest	7891RR2/BT	175.2	.	.	101	0.36	1.8	12.6	25918	74
DynaGro	58K22	173.1	196.3	.	101	0.34	1.5	12.4	26898	98
DynaGro	CX04520	172.6	.	.	109	0.32	1.3	13.5	26790	97
Vigoro	V58Y41	171.5	191.5	.	102	0.34	1.8	12.6	27116	76
Hytest	7806RR2/BT	170.4	.	.	103	0.34	1.5	13.3	26680	95
Monsanto	NC6704NRR1	169.8	.	.	103	0.34	2.0	12.8	26136	100
DeKalb	DKC67-60(RR2)	168.8	191.9	.	119	0.28	1.5	13.5	27552	99
DynaGro	58K40	165.4	.	.	107	0.33	1.3	13.8	25482	100
AgraTech	755RR	164.2	.	.	101	0.34	2.0	12.4	26136	84
Golden Acres	2295RR	162.8	.	.	101	0.34	2.5	14.4	26245	93
Croplan Genetics	820RR2/BT	159.9	.	.	100	0.31	2.0	12.0	27334	100
SS	842RR2/YGCB	159.4	.	.	102	0.32	2.0	13.2	26681	63
Vigoro	V62R66	158.2	.	.	111	0.30	1.3	13.3	25810	98
Vigoro	V59YR52	156.9	.	.	102	0.32	1.5	11.9	26027	98
DynaGro	CX05516	155.8	.	.	101	0.31	1.8	12.3	26572	99
SS	804	155.7	.	.	103	0.32	1.0	11.7	25483	100
Average		175.6 ⁴	203.0	217.3	103	0.34	1.7	13.1	27155	93
LSD at 10% Level		16.2	N.S. ⁵	N.S.	4	0.02	0.7	0.4	1973	9
Std. Err. of Entry Mean		6.9	4.0	3.2	2	0.01	0.3	0.2	840	4

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2005, Irrigated (Continued)

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 7.8%, and df for EMS = 90.
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 13, 2005.

Harvested: September 5, 2005.

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

Soil Type: Tifton loamy sand.

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

Fertilization: 95 lb N, 140 lb P₂O₅, and 210 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled and bedded; rototilled; Sutan+, Prowl, and Atrazine used for weed control; Lorsban used for insect control; Telone II used for nematode control; irrigated 3.0 inches.

Test conducted by A. E. Coy, R. Bennett, R. Brooke, and R. Burton.

Tifton, Georgia: Preliminary Corn Hybrid Performance, 2005, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹ bu/acre	Ears/100 Plants no.	Ear Grain Weight lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
Pioneer	31G66	196.4	103	0.37	2.3	13.0	27879	94
Terral	TV26B82	186.2	112	0.34	1.8	13.6	27225	97
AgraTech	X41861Bt	186.1	104	0.35	1.5	14.0	28641	98
AgraTech	X41955Bt	173.4	123	0.30	1.5	13.5	25918	97
Greenwood	775	173.1	112	0.30	1.8	12.9	28532	95
NK	NX8513	170.3	103	0.36	1.8	13.3	25374	94
SS	692BT	167.4	104	0.34	2.3	11.8	25701	71
NK	NX8363	164.4	114	0.29	1.5	12.7	26898	91
AgraTech	X41766RR	163.1	105	0.32	2.3	12.5	26245	99
Greenwood	780	161.0	102	0.34	2.3	13.0	25047	89
Terral	TV26B23	160.9	116	0.28	1.8	13.0	27334	95
Greenwood	835	153.9	106	0.31	2.3	14.2	26027	96
Pioneer	33H25	150.0	101	0.30	2.0	11.5	26898	91
Greenwood	830	149.0	109	0.31	2.5	13.7	24503	88
Greenwood	845	138.7	102	0.29	2.3	14.9	25701	78
<i>Average</i>		166.3 ⁴	107	0.32	2.0	13.1	26528	92
<i>LSD at 10% Level</i>		11.6	8	0.03	0.6	0.5	1691	N.S. ⁵
<i>Std. Err. of Entry Mean</i>		4.9	3	0.01	0.2	0.2	711	8

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 = 42.
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 13, 2005.
 Harvested: September 5, 2005.
 Seeding Rate: 30,500 seeds/acre in 30" rows.
 Soil Type: Tifton loamy sand.
 Soil Test: P = High, K = Medium, and pH = 6.1.
 Fertilization: 95 lb N, 140 lb P₂O₅, and 210 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Subsoiled and bedded; rototilled; Sutan+, Prowl, and Atrazine used for weed control; Lorsban used for insect control; Telone II used for nematode control; irrigated 3.0 inches.

Test conducted by A. E. Coy, R. Bennett, R. Brooke, and R. Burton.

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

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants ² no.	Ear Grain Weight ² lb	Root Lodg. ³ rating	Grain Moist. ⁴ %	Leaf Rust ⁵ rating	SCLB ⁶ rating
		2005	2-Year Avg bu/acre	3-Year Avg						
Terral	TV25R31(RR)	149.8	.	.	.	.	3	18.6	3	3
Terral	TV26B34(YGCB)	142.7	.	.	.	.	4	18.2	3	2
SS	692BT	141.0	.	.	.	.	2	15.2	3	4
SS	746RRBT	138.5	.	.	.	.	4	13.9	3	3
Pioneer	33M54	138.0	160.5	159.8	.	.	3	17.1	2	2
Terral	TV27C48	137.3	.	.	.	.	4	19.9	3	3
Croplan Genetics	799Bt	137.0	167.4	.	.	.	4	17.9	4	3
Hyttest	7799Bt	133.5	161.1	.	.	.	5	17.6	3	3
Pioneer	33H25	130.0	.	.	.	.	3	16.2	3	3
Terral	TV23R31(RR)	129.3	.	.	.	.	4	19.6	3	3
Hyttest	7729Hx/LL	128.5	150.5	.	.	.	5	16.2	3	3
Terral	TV26BR41(RR/YGCB)	126.6	.	.	.	.	5	18.1	3	2
Terral	TV25BR23(RR/YGCB)	117.7	.	.	.	.	5	16.6	2	3
Terral	TV2140nRR	116.9	147.4	150.4	.	.	4	16.3	3	3
Croplan Genetics	731HX/LL	115.9	.	.	.	.	4	15.7	3	3
NK	1851W	110.2	149.8	155.6	.	.	4	17.6	3	2
AgraTech	733RR	109.8	137.6	140.6	.	.	5	17.9	3	2
DeKalb	DKC61-72(RR2)	107.2	.	.	.	.	2	15.2	3	3
Golden Acres	8112	104.6	139.5	145.2	.	.	4	15.6	3	3
Vigoro	V56Y51	85.1	116.1	.	.	.	2	18.1	2	3
<i>Average</i>		125.0 ⁷	147.8	150.3	.	.	4	17.1	3	3
<i>LSD at 10% Level</i>		23.0	15.2	12.9			1	1.9	1	1
<i>Std. Err. of Entry Mean</i>		9.7	6.4	5.4			1	0.8	1	1

NOTE: High winds from Hurricane Dennis caused severe root lodging on July 10, 2005.

1. Yields calculated at 15.5% moisture.
2. Due to high winds from Hurricane Dennis incidence of root lodging was so high that plant and ear counts could not be taken.
3. Root lodging rating: 1 - all plants erect to 5 = all plants root lodged.
4. Grain moisture at harvest.
5. Leaf Rust rating: 1 = resistant to 5 = highly susceptible.
6. Southern Corn Leaf Blight rating: 1 = resistant to 5 = highly susceptible.
7. CV = 15.5%, and df for EMS = 57.

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

Planted: April 5, 2005.
 Harvested: August 24, 2005.
 Seeding Rate: 32,500 seeds/acre in 30" rows.
 Soil Type: Greenville sandy loam.
 Soil Test: P = Medium, K = Medium, and pH = 6.1.
 Fertilization: 120 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Subsoiled and rototilled; Atrazine and Prowl used for weed control; Irrigated 6.0 inches.

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

Plains, Georgia: Mid-Season Corn Hybrid Performance, 2005, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/100 Plants ² no.	Ear		Root Lodg. ³ rating	Grain Moist. ⁴ %	Leaf Rust ⁵ rating	SCLB ⁶ rating
		2005	2-Year Avg bu/acre		3-Year Avg	Grain Weight ² lb				
Monsanto	NC6901	195.3	.	.	.	.	2	18.0	3	3
Pioneer	31G66	181.1	185.6	176.5	.	.	4	16.9	3	4
Garst	8292YG1	175.2	.	.	.	.	4	18.6	3	4
DeKalb	DKC67-60(RR2)	166.5	175.7	.	.	.	4	18.4	2	3
DeKalb	DKC66-21(YGCB)	166.0	.	.	.	.	4	17.7	3	3
DeKalb	DKC69-72(RR2)	161.9	178.2	.	.	.	4	18.7	3	3
DeKalb	DKC69-71(RR2/YGCB)	159.0	170.5	168.1	.	.	4	19.4	3	3
Garst	8200YG1	158.8	175.0	.	.	.	4	18.2	4	4
Vigoro	V62R66	155.5	.	.	.	.	3	18.9	3	2
Hyttest	7806RR2/BT	154.7	.	.	.	.	5	18.3	3	4
Pioneer	31N26(RR2)	154.3	.	.	.	.	3	17.5	3	2
DynaGro	58P59	153.6	.	.	.	.	5	17.0	3	2
Monsanto	NC6702	151.0	.	.	.	.	3	16.9	3	2
SS	804	150.9	.	.	.	.	4	15.4	3	4
DynaGro	58K40	149.5	.	.	.	.	3	19.5	3	3
Monsanto	NC6704NRR1	147.3	.	.	.	.	4	17.2	3	2
AgraTech	755RR	145.4	.	.	.	.	5	17.3	2	2
Hyttest	7891RR2/BT	142.9	.	.	.	.	5	18.7	3	3
Pioneer	32D99	142.2	176.0	170.1	.	.	5	17.9	3	4
Vigoro	V58Y41	136.2	159.5	.	.	.	4	16.9	3	3
DynaGro	58K22	136.1	161.1	.	.	.	5	16.3	3	3
Croplan Genetics	851RR2/BT	124.0	.	.	.	.	5	17.8	3	2
Croplan Genetics	820RR2/BT	122.8	.	.	.	.	4	16.0	3	3
DynaGro	CX05516	120.6	.	.	.	.	4	17.1	3	3
NK	N91-R9	118.2	150.4	157.9	.	.	5	18.2	2	3
Vigoro	V59YR52	117.3	.	.	.	.	5	16.6	3	4
DynaGro	CX04520	115.6	.	.	.	.	4	17.9	3	4
SS	842RR2/YGCB	112.0	.	.	.	.	4	18.5	2	3
Croplan Genetics	822RR2/BT	107.6	.	.	.	.	4	19.3	3	2
Golden Acres	2295RR	100.3	.	.	.	.	5	18.3	3	4
Hyttest	7924RR2/BT	82.1	.	.	.	.	4	18.7	2	3
<i>Average</i>		142.0 ⁷	170.2	168.1	.	.	4	17.8	3	3
<i>LSD at 10% Level</i>		20.0	N.S. ⁸	N.S.			1	0.8	1	1
<i>Std. Err. of Entry Mean</i>		8.5	4.0	4.7			1	0.3	1	1

Plains, Georgia: Mid-Season Corn Hybrid Performance, 2005, Irrigated (Continued)

NOTE: High winds from Hurricane Dennis caused severe root lodging on July 10, 2005.

1. Yields calculated at 15.5% moisture.
2. Due to high winds from Hurricane Dennis incidence of root lodging was so high that plant and ear counts could not be taken.
3. Root lodging rating: 1 = all plants erect to 5 = all plants root lodged.
4. Grain moisture at harvest.
5. Leaf Rust rating: 1 = resistant to 5 = highly susceptible.
6. Southern Corn Leaf Blight rating: 1 = resistant to 5 = highly susceptible.
7. CV = 12.0%, and df for EMS = 90.
8. 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 5, 2005.
Harvested: August 25, 2005.
Seeding Rate: 30,500 seeds/acre in 30" rows.
Soil Type: Greenville sandy loam.
Soil Test: P = Medium, K = Medium, and pH = 6.1.
Fertilization: 120 lb N, 80 lb P₂O₅, and 80 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Subsoiled and rototilled; Atrazine and Prowl used for weed control; Irrigated 6.0 inches.

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

Midville, 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 rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2005	2-Year Avg bu/acre	3-Year Avg						
Terral	TV26BR41(RR/YGCB)	173.9	.	.	101	0.30	.	10.3	29833	100
SS	692BT	167.0	.	.	96	0.31	.	9.9	30177	100
Terral	TV26B34(YGCB)	166.2	.	.	109	0.29	.	10.1	28716	100
Terral	TV25R31(RR)	163.0	.	.	99	0.30	.	10.7	29318	100
Croplan Genetics	731HX/LL	160.1	.	.	100	0.26	.	9.7	31897	100
AgraTech	733RR	159.5	159.5	170.4	96	0.28	.	10.1	31725	100
Terral	TV25BR23(RR/YGCB)	158.2	.	.	100	0.27	.	10.4	30435	100
Hyttest	7799Bt	154.9	165.6	.	98	0.28	.	10.6	30006	100
Terral	TV27C48	154.2	.	.	102	0.27	.	10.9	29919	100
Golden Acres	8112	152.6	161.9	171.0	122	0.26	.	10.1	26566	100
NK	1851W	152.4	163.3	159.6	100	0.26	.	10.5	31123	100
Terral	TV23R31(RR)	150.7	.	.	100	0.27	.	9.9	29833	100
Hyttest	7729Hx/LL	149.0	157.9	.	102	0.24	.	9.7	31811	100
SS	746RRBT	145.4	.	.	98	0.24	.	9.7	31811	100
DeKalb	DKC61-72(RR2)	144.7	.	.	102	0.25	.	9.8	30005	100
Croplan Genetics	799Bt	141.8	156.6	.	97	0.27	.	10.5	28716	100
Pioneer	33M54	140.4	159.3	166.5	101	0.26	.	10.2	28200	100
Terral	TV2140nRR	138.3	159.8	165.9	100	0.23	.	9.7	31639	100
Vigoro	V56Y51	135.9	149.0	.	98	0.23	.	9.8	32327	100
Pioneer	33H25	134.9	.	.	100	0.23	.	10.0	30779	100
<i>Average</i>		152.1 ⁴	159.2	166.7	101	0.26	.	10.1	30242	100
<i>LSD at 10% Level</i>		N.S. ⁵	N.S.	N.S.	N.S.	0.04		0.5	2302	-
<i>Std. Err. of Entry Mean</i>		9.9	6.0	4.6	5	0.02		0.2	974	-

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 13.1%, and df for EMS = 57.
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 6, 2005.
 Harvested: September 15, 2005.
 Seeding Rate: 32,500 seeds/acre in 38" rows.
 Soil Type: Tifton sandy loam.
 Soil Test: P = Medium, K = High, and pH = 5.4.
 Fertilization: 60 lb N, 120 lb P₂O₅, and 180 lb K₂O/acre as preplant; 187 lb N/acre as sidedress.
 Previous Crop: Cotton.
 Management: Subsoiled and bedded; rototilled; Dual Magnum, Atrazine, and Basagran used for weed control; Irrigated 15.0 inches.

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

Midville, 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. no.	Erect Plants %
		2005	2-Year Avg	3-Year Avg						
		----- bu/acre -----			no.	lb	rating	%	no.	%
DynaGro	58P59	183.3	.	.	100	0.33	.	10.3	28974	100
Garst	8200YG1	182.2	170.7	.	98	0.35	.	10.8	28286	100
SS	842RR2/YGCB	179.0	.	.	104	0.32	.	11.3	29146	100
Golden Acres	2295RR	176.4	.	.	100	0.36	.	11.3	25879	100
DynaGro	58K22	176.4	173.9	.	101	0.32	.	10.4	28973	100
Garst	8292YG1	176.3	.	.	103	0.33	.	11.4	27942	100
DeKalb	DKC69-71(RR2/YGCB)	174.8	166.4	174.8	103	0.31	.	11.1	29232	100
Pioneer	32D99	171.2	178.0	185.8	100	0.32	.	11.3	28716	100
Vigoro	V58Y41	169.9	162.0	.	101	0.31	.	10.2	28973	100
Monsanto	NC6901	168.3	.	.	101	0.29	.	11.0	30177	100
DynaGro	58K40	165.5	.	.	107	0.30	.	11.2	27684	100
Croplan Genetics	822RR2/BT	165.5	.	.	101	0.32	.	11.7	27942	100
Hyttest	7891RR2/BT	165.1	.	.	100	0.31	.	10.2	27856	100
DeKalb	DKC66-21(YGCB)	164.6	.	.	101	0.29	.	10.6	29920	100
NK	N91-R9	164.3	156.6	165.2	105	0.29	.	11.6	29318	100
DeKalb	DKC69-72(RR2)	163.8	166.8	.	101	0.28	.	10.7	30177	100
Croplan Genetics	851RR2/BT	162.0	.	.	99	0.31	.	9.9	27770	100
DynaGro	CX04520	159.6	.	.	105	0.30	.	11.2	26738	100
Monsanto	NC6702	159.2	.	.	101	0.29	.	11.2	29231	100
AgraTech	755RR	157.6	.	.	99	0.31	.	10.3	26652	100
Monsanto	NC6704NRR1	157.0	.	.	102	0.31	.	10.8	26480	100
Pioneer	31G66	156.6	159.0	171.9	100	0.29	.	10.5	28630	100
DeKalb	DKC67-60(RR2)	156.5	158.3	.	107	0.26	.	10.8	29576	100
Vigoro	V59YR52	156.3	.	.	100	0.29	.	9.8	28458	100
Croplan Genetics	820RR2/BT	155.7	.	.	101	0.30	.	9.9	27168	100
Hyttest	7924RR2/BT	154.1	.	.	101	0.30	.	11.9	27856	100
Hyttest	7806RR2/BT	152.6	.	.	101	0.30	.	11.0	26652	100
Vigoro	V62R66	151.7	.	.	106	0.29	.	11.3	26051	100
SS	804	151.4	.	.	99	0.30	.	10.3	26566	100
DynaGro	CX05516	144.2	.	.	100	0.28	.	10.6	26996	100
Pioneer	31N26(RR2)	143.0	.	.	99	0.28	.	11.4	27598	100
<i>Average</i>		163.3 ⁴	165.7	174.4	101	0.30	.	10.8	28117	100
<i>LSD at 10% Level</i>		16.9	N.S. ⁵	N.S.	3	0.03		0.4	1370	-
<i>Std. Err. of Entry Mean</i>		7.2	4.2	4.3	1	0.01		0.2	583	-

Midville, Georgia: Mid-Season Corn Hybrid Performance, 2005, Irrigated (Continued)

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 = 90.
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 6, 2005.
Harvested: September 15, 2005.
Seeding Rate: 30,500 seeds/acre in 38" rows.
Soil Type: Tifton sandy loam.
Soil Test: P = Medium, K = High, and pH = 5.4.
Fertilization: 60 lb N, 120 lb P_2O_5 , and 180 lb K_2O /acre as preplant; 187 lb N/acre as sidedress.
Previous Crop: Cotton.
Management: Subsoiled and bedded; rototilled; Dual Magnum, Atrazine, and Basagran used for weed control; Irrigated 15.0 inches.

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