

Corn Grain Hybrid Tests in Tennessee

2007

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Variety test results are posted on UT's website at:

**<http://varietytrials.tennessee.edu/>
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County Standard Corn Tests

Coordinator: **Robert C. Williams, Jr.**, Area Specialist, Grain Crops

<u>County</u>	<u>Producer</u>	<u>Agent</u>
<u>Early Season Corn Hybrid Test (Conventional & Bt)</u>		
Ballard, Ky	JCO Dairy	Bob Middleton
Coffee	L.A. Teal	Dean Northcutt
Crockett	Steve Bailey	Richard Buntin
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Steve Dixon	Ed Burns
Fulton, Ky	Johnson Linder	Ben Mullins/Cam Kenimer
Gibson	Denton Clay Parkins	Philip Shelby
Henry	Tosh Farms	Ken Goddard
Humphreys	Steve May	Scott Reese
Montgomery	John Allensworth	Rusty Evans
Tipton	Leslie Moffatt	Daniel Jacobs
Weakley	Billy Scarbrough	Jeff Lannom

<u>Medium Season Corn Hybrid Test (Conventional & Bt)</u>		
Cannon	Jerry Powell	Bruce Steelman
Carlisle, Ky	Curtsinger Farms	Bob Middleton
Coffee	L.A. Teal	Dean Northcutt
Crockett	Steve Bailey	Richard Buntin
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Steve Dixon	Ed Burns
Fulton	Johnson Linder	Ben Mullins/Cam Kenimer
Gibson	Denton Clay Parkins	Philip Shelby
Henry	Tosh Farms	Ken Goddard
Humphreys	Steve May	Scott Reese
Montgomery	John Allensworth	Rusty Evans
Obion	Elwin Tanner	Tim Smith
Tipton	Leslie Moffatt	Daniel Jacobs
Weakley	Billy Scarbrough	Jeff Lannom

<u>Full Season Corn Hybrid Test (Conventional & Bt)</u>		
Cannon	Jerry Powell	Bruce Steelman
Carlisle, Ky	Curtsinger Farms	Bob Middleton
Coffee	L.A. Teal	Dean Northcutt
Crockett	Steve Bailey	Richard Buntin
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Steve Dixon	Ed Burns
Fulton	Johnson Linder	Ben Mullins/Cam Kenimer
Gibson	Denton Clay Parkins	Philip Shelby
Henry	Tosh Farms	Ken Goddard
Humphreys	Steve May	Scott Reese
Montgomery	John Allensworth	Rusty Evans
Tipton	Leslie Moffatt	Daniel Jacobs
Weakley	Billy Scarbrough	Jeff Lannom

County Standard Corn Tests

Coordinator: **Robert C. Williams, Jr.**, Area Specialist, Grain Crops

<u>County</u>	<u>Producer</u>	<u>Agent</u>
<u>Early Season Corn Hybrid Test (RR and Stacked)</u>		
Ballard, Ky	JAP Farms	Bob Middleton
Carroll	Jeremy Fowler	Steve Burgess
Coffee	L.A. Teal	Dean Northcutt
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Richard Atkinson	Ed Burns
Gibson (1,2 & 3)	Denton Clay Parkins	Philip Shelby
Giles	Pat Sulcer	Kevin Rose
Henderson	Billy Hatchett	Ron Blair
Henry	Tosh Farms	Ken Goddard
Obion	Scott & David Wisener	Tim Smith
MREC (1 & 2)	Dr. Blake Brown	Dr. Angela Thompson
UT Martin	Dr. Richard Joost	Charlie Rowlett

<u>Medium Season Corn Hybrid Test (RR and Stacked)</u>		
Carlisle, Ky	Brad Reddick	Bob Middleton
Coffee	L.A. Teal	Dean Northcutt
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Richard Atkinson	Ed Burns
Gibson (1 & 2)	Denton Clay Parkins	Philip Shelby
Giles	J Tucker	Kevin Rose
Hardin	Gerry Lambert	Marcus McLemore
Henderson	Billy Hatchett	Ron Blair
Henry	Tosh Farms	Ken Goddard
Obion	Elwin Tanner	Tim Smith
Robertson	Freddie Edwards	Paul Hart
UT Martin	Dr. Richard Joost	Charlie Rowlett
Weakley	Bob Grooms	Jeff Lannom

<u>Full Season Corn Hybrid Test (RR and Stacked)</u>		
Carlisle, Ky	Brad Reddick	Bob Middleton
Coffee	L.A. Teal	Dean Northcutt
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Richard Atkinson	Ed Burns
Gibson (1 & 2)	Denton Clay Parkins	Philip Shelby
Giles	J Tucker	Kevin Rose
Hardin	Gerry Lambert	Marcus McLemore
Henderson	Billy Hatchett	Ron Blair
Henry	Tosh Farms	Ken Goddard
Obion	Elwin Tanner	Tim Smith
Robertson	Freddie Edwards	Paul Hart
Weakley	Bob Grooms	Jeff Lannom

County Standard Corn Tests

Coordinator: **Robert C. Williams, Jr.**, Area Specialist, Grain Crops

<u>County</u>	<u>Producer</u>	<u>Agent</u>
<u>White Corn Hybrid Test</u>		
Carlisle, Ky	Warren Dunn	Bob Middleton
Coffee	L.A. Teal	Dean Northcutt
Franklin	Bobby Woodall	Ed Burns
Gibson	Charles & Andy King	Philip Shelby
Henry (T)	Jimmy Tosh	Ken Goddard
Henry (W)	David Wilson	Ken Goddard
Lincoln	Danny & Danny Good, Jr.	David Qualls
Weakley	Scotty Ogg	Jeff Lannom

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CORN GRAIN VARIETY TESTS IN TENNESSEE

RESEARCH AND EDUCATION CENTER and COUNTY STANDARD TESTS

2007

Experimental Procedures:

Research and Education Center Tests: All corn hybrid trials were conducted in each of the physiographic regions of the state. Tests were conducted at the Ames Plantation (Grand Junction) and at the Highland Rim (Springfield), East TN (Knoxville), Middle TN (Spring Hill), and Milan (Milan) Research and Education Centers (REC). The early-season test was also conducted at the Plateau Research and Education Center in Crossville. **Duplicate plantings** of the early-, medium- and full-season tests were made at the **Milan and Middle Tennessee Research and Education Centers** for performance testing **with and without irrigation**. The data from the irrigated corn tests at the Middle Tennessee REC were not included in this report due to severe lodging and subsequent yield loss caused by a strong late season storm.

The corn hybrids were placed in either the **early-, medium-, or full-season tests** based on the maturity as reported by the company providing the hybrid. The early season test contained hybrids that had maturity <114 days after planting (DAP); the medium season test contained hybrids with maturity of 114-116 DAP; and the full season test contained hybrids with maturities >116 DAP. All corn hybrid trials were over-planted and thinned to a uniform population per acre at each location (see Table 1). Population varied with location but attempts were made to make the population the same for all hybrids at a given location. Tests were conducted using 30 inch row spacing. The tests were fertilized with 150 pounds of nitrogen per acre. A portion of the nitrogen was applied prior to seeding and the remainder was applied as a side-dress. The plot size was two rows, 30 feet in length. Plots were replicated three times at each location. An incomplete block design was used at each location in order to reduce the within replication variation.

County Standard Tests: The County Standard Corn Tests were conducted in several counties (8 – 14) in Tennessee, and a few in West Kentucky. The number of counties depended on the test. The County Standard Tests were divided into **early-, medium-, full-season conventional & Bt tests** (same DAP criteria as listed above), **early-, medium-, full-season glyphosate resistant stacked with Bt tests and white corn tests**. Each hybrid was evaluated in a large strip-plot at each location, thus **each county test was considered as one replication of the test** in calculating the overall average yield and in conducting the statistical analysis to determine significant differences. At each location, plots were planted, sprayed, fertilized, and harvested with the equipment used in the cooperating producer's farming operation. The width and length of strip-plots were different in each county; however, within a location in a county, the strips were trimmed on the ends so that the lengths were the same for each variety, or if the lengths were different then the harvested length was measured for each variety and appropriate harvested area adjustments were made to determine the yield per acre.

Blount County Strip Trial: A seed industry strip trial was planted in Blount County, Tennessee during the 2007 season. The harvest and seed analysis of this trial was supervised and conducted by the University of Tennessee Variety Testing and Demonstration Program personnel along with the cooperating producer and seed company representatives present at harvest.

Growing Season: The 2007 growing season was one characterized by extremes. A late frost and very low temperatures in the first portion of April caused crop damage and resulted in some replanting of producer fields. The remainder of the season was characterized by record setting heat and drought which lowered yields. Producers planted 870,000 acres this year, a 62 percent increase from the previous year. Corn production for 2007 is projected to be 87.5 million bushels, an increase of 40 percent from 2006. Dry weather during September allowed producers to finish corn harvest three weeks ahead of normal. The state corn grain yield average is projected to be 108 bu/a, 17 bushels below 2006 yields.

Interpretation of Data:

The tables on the following pages have been prepared with the entries listed in order of performance, the highest-yielding entry being listed first. **All yields presented have been adjusted to 15.5% moisture.** At the bottom of the tables, **LSD** values stand for **Least Significant Difference**. The mean yields of any two varieties being compared must differ by at least the amount shown to be considered different in yielding ability at the 5% level of probability of significance. For example, given that the LSD for a test is 8.0 bu/a and the mean yield of Hybrid A was 110 bu/a and the mean yield of Hybrid B was 115 bu/a, then the two hybrids are not statistically different in yield because the difference of 5 bu/a is less than the minimum of 8 bu/a required for them to be significant. Similarly, if the average yield of Hybrid C was 123 bu/a then it is significantly higher yielding than both Hybrid B ($123 - 115 = 8$ bu/a = LSD of 8) and Hybrid A ($123 - 110 = 13$ bu/a > LSD of 8).

Also, the **coefficient of variation (C.V.)** values are shown at the bottom of each table. This value is a measure of the error variability found within each experiment. It is the percentage that the square root of error variance is of the overall test mean yield at that location. For example, a C.V. of 10% indicates that the size of the error variation is about 10% of the size of the test mean. Similarly, a C.V. of 30% indicates that the size of the error variation is nearly one-third as large as the test mean. A goal in conducting each yield test is to keep the C.V. as low as possible, preferably below 20 percent.

RESULTS

Yield and Agronomic Traits. One hundred and twelve corn hybrids were evaluated in the 2007 **Research and Education Center (REC)** tests in Tennessee. There were 50 hybrids in the early- (Tables 2-7), 40 in the medium- (Tables 8-13), and 22 hybrids in the full-season (Tables 14-19). The 112 hybrids represent 23 different brands (Tables 31-32). Common to both the REC and the **County Standard (CS)** tests were 16 early-season, 13 medium-season, and four full-season hybrids. The CS tests consisted of an early-season conventional & Bt test (9 hybrids at 12 locations, Table 20), a early-season glyphosate resistant Bt stacked trait test (20 hybrids at 14 locations, Table 21), a medium-season conventional & Bt test (11 hybrids at 14 locations, Table 22), a medium-season glyphosate resistant Bt stacked trait test (13 hybrids at 14 locations, Table 23), a full-season conventional & Bt test (5 hybrids at 13 locations, Table 24), a full-season glyphosate resistant Bt stacked trait test (3 hybrids at 13 locations, Table 25), and a test of white grain hybrids (7 hybrids at 8 locations, Table 26) for a total of 68 hybrids. In addition to Tennessee counties, the County Standard tests involved Ballard, Carlisle, and Fulton counties in Western Kentucky. Sixteen corn hybrids were tested in a seed industry planted strip trial located in **Blount County**, Tennessee (Table 27). In the REC tests, the white grain, Bt, RW, RR, LL and stacked-trait hybrids were not placed in separate tests, but were placed in the maturity test for which they fit. Eighty-six of the 112 hybrids in the 2007 REC tests have a Bt gene for European Corn Borer resistance (denoted by Bt, YG, CB, YGCB, HX); 11 have a gene for Corn Root Worm resistance (denoted by YGRW, RW); 75 have a Roundup Ready gene for tolerance to glyphosate herbicide (denoted by R, RR,RR2); 13 have a gene for tolerance to Liberty (glufosinate) herbicide (denoted by LL); and 70 have “stacked” genes with trait combinations of RR, Bt, RW, LL, 13 of these hybrids are triple stacked (Table 31).

Irrigated vs. Non-irrigated Yields. Duplicate tests were conducted at the Milan and Middle TN Research and Education Centers with and without irrigation. In a year of severe drought conditions during critical stages of the growing season, the average differences in yields across hybrids receiving irrigation versus non-irrigation at Milan in 2007 were: 87 bu/a for early-season hybrids (Table 2), 80 bu/a for medium-season hybrids (Table 8), and 93 bu/a for full-season hybrids (Table 14). The data from the irrigated corn tests at the Middle Tennessee REC were not included in this report due to severe lodging and subsequent yield loss caused by a strong late season storm.

Table 1. Location information from research and education centers where the corn hybrid tests were conducted in Tennessee in 2007.

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Early Season Corn Hybrids					
East Tennessee Plateau	Knoxville	April 23, 2007	September 12, 2007	28,625	Sequatchie Silt Loam
Highland Rim	Crossville	May 2, 2007	September 21, 2007	27,588	Lilly Silt Loam
Middle TN (irrigated)	Springfield	April 23, 2007	September 7, 2007	24,103	Dickson Silt Loam
Middle TN (non-irrigated)	Spring Hill	April 26, 2007	September 6, 2007	26,717	Maury Silt Loam
Milan (irrigated)	" "	April 23, 2007	September 4, 2007	26,426	Maury Silt Loam
" (non-irrigated)	Milan	April 20, 2007	September 5, 2007	25,555	Loring, Grenada Silt Loam
Ames Plantation	"	April 19, 2007	August 31, 2007	25,265	Grenada Silt Loam
	Grand Junction	May 1, 2007	August 29, 2007	26,717	Lexington Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Medium Season Corn Hybrids					
East Tennessee	Knoxville	April 23, 2007	September 13, 2007	28,625	Sequatchie Silt Loam
Highland Rim	Springfield	April 23, 2007	September 13, 2007	24,103	Dickson Silt Loam
Middle TN (irrigated)	Spring Hill	April 26, 2007	September 7, 2007	26,717	Maury Silt Loam
Middle TN (non-irrigated)	" "	April 23, 2007	September 5, 2007	26,426	Maury Silt Loam
Milan (irrigated)	Milan	April 20, 2007	September 18, 2007	25,555	Grenada, Loring Silt Loam
" (non-irrigated)	"	April 19, 2007	August 31, 2007	25,265	Grenada Silt Loam
Ames Plantation	Grand Junction	May 1, 2007	August 29, 2007	26,717	Lexington Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Full Season Corn Hybrids					
East Tennessee	Knoxville	April 23, 2007	September 13, 2007	28,625	Sequatchie Silt Loam
Highland Rim	Springfield	April 23, 2007	September 7, 2007	24,103	Dickson Silt Loam
Middle TN (irrigated)	Spring Hill	April 26, 2007	September 5, 2007	26,717	Maury Silt Loam
Middle TN (non-irrigated)	" "	April 23, 2007	September 5, 2007	26,426	Maury Silt Loam
Milan (irrigated)	Milan	April 20, 2007	September 19, 2007	25,555	Loring, Grenada Silt Loam
" (non-irrigated)	"	April 19, 2007	August 31, 2007	25,265	Grenada Silt Loam
Ames Plantation	Grand Junction	May 1, 2007	August 29, 2007	26,717	Lexington Silt Loam

Table 2. Mean yields of 50 early-season (<114 DAP) corn hybrids evaluated in seven environments in Tennessee during 2007.

Brand	Hybrid	Avg. Yield [†]	Spring						
		± Std Err (n=7)	Knoxville	Crossville	Hill (Non-Irr.)	Springfield	Milan (Irr.)	Milan (Non-Irr.)	Ames
		-----bu/a-----							
NK Brand	N72-Q6 (LL/Bt)	146 ± 3	181	88	133	115	260	143	102
Trisler Seeds	T-5338 CB	145 ± 3	164	77	142	128	250	149	107
Agrigold	A6479BtRR	145 ± 3	164	82	147	119	242	154	107
Wyffels	W7383 (Bt)	145 ± 3	178	80	157	116	229	145	109
DeKalb	RX715 (RR2/YGCB)	144 ± 3	171	72	142	109	236	165	109
Trisler Seeds	T-5175 CB	143 ± 3	166	94	133	126	244	144	95
LG Seeds	LG2590 Bt RW RR	142 ± 3	169	86	147	107	253	152	82
Augusta	A5175CB	142 ± 3	165	101	146	108	234	144	96
Belle	1040 RY	142 ± 3	153	89	140	118	243	147	100
Agrigold	A6455BtRR	141 ± 3	154	93	152	121	226	146	95
Trisler Seeds	T-6N51PLRR (Bt/RW)	141 ± 3	170	95	135	109	241	139	96
DeKalb	DKC61-73 (RR2/YGCB)	141 ± 3	159	81	151	110	237	156	91
Augusta	A-06-06	141 ± 3	142	101	124	133	236	156	91
Vigoro	V 53YR72 (RR/Bt)	140 ± 3	159	82	142	115	240	145	99
Agrigold	A6459Bt	140 ± 3	158	89	150	112	236	150	86
DeKalb	RX715 VT3 (RR/YGCB/RW)	140 ± 3	164	81	143	113	238	149	91
Dairyland	7611 (RR2/YGCB)	140 ± 3	153	91	137	132	243	135	87
Augusta	A-06-04HX (LL)	140 ± 3	136	80	147	119	230	162	104
Augusta	A5337CB	140 ± 3	161	78	154	109	246	143	88
Croplan	6831 TS	139 ± 3	156	81	151	114	240	149	85
Trisler Seeds	T-7N53RRCB	139 ± 3	166	60	136	112	247	147	108
Dairyland	7212 (RR2/YGCB)	139 ± 3	146	100	148	122	226	133	98
Wyffels	W7645 (LL/Bt)	138 ± 3	132	82	141	123	235	157	95
Adler	3515 RR Bt	137 ± 3	146	77	133	123	244	145	90
Pioneer	33N55 (RR2)	136 ± 3	155	74	150	106	225	147	98
Dyna-Gro	57B90 (RR/YGCB/YGRW)	136 ± 3	157	86	143	87	229	146	106
DeKalb	DKC63-81 (RR2/YGCB)	136 ± 3	172	67	130	100	231	163	88
DeKalb	DKC61-45 (RR2/YGCB)	135 ± 3	168	76	135	102	236	147	82
Dairyland	6009 (RR2)	135 ± 3	145	79	119	120	244	143	93
FFR	650 RR2/Bt	135 ± 3	160	72	152	105	227	135	91
Steyer	1095 YGCB/RR	134 ± 3	166	83	140	96	230	141	82
Crow's	5132 S (RR/Bt)	134 ± 3	153	73	139	100	233	149	89
Croplan	6331 RB	134 ± 3	162	68	134	108	230	149	84
AgVenture	AV 8109YPRR	133 ± 3	144	84	145	110	233	135	84
Agrigold	A6522Bt	133 ± 3	160	75	146	102	221	138	91
Adler	4740 YGPL	133 ± 3	152	82	134	113	219	146	86

Table 2 (continued)

Brand	Hybrid	Avg. Yield [†]	Spring						
		± Std Err (n=7)	Knoxville	Crossville	Hill (Non-Irr.)	Springfield	Milan (Irr.)	Milan (Non-Irr.)	Ames
		----- bu/a -----							
DeKalb	DKC63-74 (RR2/YGPL) (RW)	133 ± 3	164	60	135	100	214	163	92
DeKalb	DKC63-46 (RR2/YGCB)	132 ± 3	144	81	131	94	240	147	89
DeKalb	DKC63-42 VT3 (RR/YGCB/RW)	132 ± 3	140	79	151	97	242	131	86
Dyna-Gro	57P69 (RR/Bt)	132 ± 3	143	78	128	102	241	141	90
Dairyland	7010 (RR2/YGCB)	132 ± 3	130	90	127	104	225	149	97
AgVenture	AV 8036YPRR	130 ± 3	150	78	129	102	225	145	84
NK Brand	N68-B8 (LL/Bt)	129 ± 3	164	76	133	85	222	140	87
Wyffels	W8257 (RR/Bt)	129 ± 3	156	65	132	97	236	138	79
Vigoro	V 52RP73 (RR/Bt)	127 ± 3	146	77	145	87	215	136	84
Pioneer	34A20 (HXX/LL/RR2)	127 ± 3	142	77	146	80	205	153	83
Trisler Seeds	T-7A01RR	124 ± 3	123	85	133	107	206	134	80
Fielder's Choice	NG 6795 (RR)	124 ± 3	133	62	141	93	226	134	79
Freedom	580 CB LL	123 ± 3	111	78	122	116	215	141	80
Dairyland	6210 (RR2)	123 ± 3	122	76	125	102	215	135	84
Avg. (bu/a)		136	153	80	140	109	233	146	92
L.S.D._{.05} (bu/a)		8	25	14	20	24	14	16	27
C.V. (%)		9.1	9.6	10.7	8.7	13.5	3.8	6.4	17.7

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 3. Overall mean yields and agronomic characteristics of 50 early-season corn hybrids evaluated in seven environments in Tennessee during 2007.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear
		± Std Error (n=7)	at Harvest (n=7)	Weight (n=4)	(n=4)	Height [‡] (n=2)	Height [‡] (n=2)
		bu/a	%	lbs/bu	%	in.	in.
NK Brand	N72-Q6 (LL/Bt)	146 ± 3	13.7	56.9	1	87	32
Trisler Seeds	T-5338 CB	145 ± 3	14.6	55.8	0	89	34
Agrigold	A6479BtRR	145 ± 3	14.6	58.8	1	89	37
Wyffels	W7383 (Bt)	145 ± 3	14.2	57.2	1	93	37
DeKalb	RX715 (RR2/YGCB)	144 ± 3	14.2	58.5	0	91	37
Trisler Seeds	T-5175 CB	143 ± 3	14.0	57.5	1	91	35
LG Seeds	LG2590 Bt RW RR	142 ± 3	14.1	57.3	0	92	36
Augusta	A5175CB	142 ± 3	14.1	57.4	0	89	36
Belle	1040 RY	142 ± 3	13.6	58.0	0	94	37
Agrigold	A6455BtRR	141 ± 3	13.7	57.5	0	95	36
Trisler Seeds	T-6N51PLRR (Bt/RW)	141 ± 3	14.1	59.0	1	89	36
DeKalb	DKC61-73 (RR2/YGCB)	141 ± 3	13.7	58.4	1	91	34
Augusta	A-06-06	141 ± 3	14.3	58.4	2	95	35
Vigoro	V 53YR72 (RR/Bt)	140 ± 3	14.7	57.5	0	90	37
Agrigold	A6459Bt	140 ± 3	13.7	55.9	2	90	35
DeKalb	RX715 VT3 (RR/YGCB/RW)	140 ± 3	14.2	58.6	1	87	35
Dairyland	7611 (RR2/YGCB)	140 ± 3	13.6	58.0	0	93	35
Augusta	A-06-04HX (LL)	140 ± 3	14.1	57.6	1	93	37
Augusta	A5337CB	140 ± 3	15.2	56.4	1	92	34
Croplan	6831 TS	139 ± 3	14.6	57.9	1	92	35
Trisler Seeds	T-7N53RRCB	139 ± 3	13.7	58.6	0	92	36
Dairyland	7212 (RR2/YGCB)	139 ± 3	13.7	58.0	0	96	37
Wyffels	W7645 (LL/Bt)	138 ± 3	14.0	58.7	0	88	36
Adler	3515 RR Bt	137 ± 3	13.6	57.6	1	92	36
Pioneer	33N55 (RR2)	136 ± 3	14.2	60.0	1	89	37
Dyna-Gro	57B90 (RR/YGCB/YGRW)	136 ± 3	15.1	57.9	0	94	35
DeKalb	DKC63-81 (RR2/YGCB)	136 ± 3	13.5	60.2	1	90	38
DeKalb	DKC61-45 (RR2/YGCB)	135 ± 3	13.5	58.4	1	93	35
Dairyland	6009 (RR2)	135 ± 3	13.4	57.8	1	95	39
FFR	650 RR2/Bt	135 ± 3	13.5	57.6	0	86	32
Steyer	1095 YGCB/RR	134 ± 3	14.0	57.8	0	92	35
Crow's	5132 S (RR/Bt)	134 ± 3	14.9	60.3	1	90	38
Croplan	6331 RB	134 ± 3	14.2	57.7	1	87	33
AgVenture	AV 8109YPRR	133 ± 3	13.7	59.9	0	89	35
Agrigold	A6522Bt	133 ± 3	13.8	58.1	1	80	30
Adler	4740 YGPL	133 ± 3	14.0	58.2	1	93	35

Table 3 (continued)

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging (n=4)	Plant	Ear
		± Std Error (n=7)	at Harvest (n=7)	Weight (n=4)		Height [‡] (n=2)	Height [‡] (n=2)
		bu/a	%	lbs/bu	%	in.	in.
DeKalb	DKC63-74 (RR2/YGPL) (RW)	133 ± 3	13.5	60.3	1	83	35
DeKalb	DKC63-46 (RR2/YGCB)	132 ± 3	13.2	58.1	1	90	35
DeKalb	DKC63-42 VT3 (RR/YGCB/RW)	132 ± 3	13.2	57.6	1	85	31
Dyna-Gro	57P69 (RR/Bt)	132 ± 3	13.6	57.8	0	88	30
Dairyland	7010 (RR2/YGCB)	132 ± 3	13.5	59.8	0	86	37
AgVenture	AV 8036YPRR	130 ± 3	13.7	58.0	0	88	32
NK Brand	N68-B8 (LL/Bt)	129 ± 3	13.1	56.4	0	84	30
Wyffels	W8257 (RR/Bt)	129 ± 3	13.4	58.4	1	92	35
Vigoro	V 52RP73 (RR/Bt)	127 ± 3	13.6	57.9	0	89	35
Pioneer	34A20 (HXX/LL/RR2)	127 ± 3	14.8	58.6	0	92	34
Trisler Seeds	T-7A01RR	124 ± 3	14.0	59.7	1	76	33
Fielder's Choice	NG 6795 (RR)	124 ± 3	14.2	59.2	0	90	36
Freedom	580 CB LL	123 ± 3	13.7	56.8	1	85	34
Dairyland	6210 (RR2)	123 ± 3	13.6	59.2	1	94	37
Average		136	13.9	58.2	1	90	35

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

[‡]Average of Knoxville and Springfield.

Table 4. Mean yields of nine early-season (<114 DAP) corn hybrids evaluated in seven environments for two years (2006-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=14)	Spring				Milan		Ames
			Knoxville	Crossville	Hill (Non-Irr.)	Springfield	(Irr.)	(Non-Irr.)	
bu/a									
DeKalb	RX715 (RR2/YGCB)	152 ± 2	183	129	116	130	218	153	137
Trisler Seeds	T-5175 CB	152 ± 2	177	144	103	148	221	144	123
Trisler Seeds	T-5338 CB	149 ± 2	177	133	117	136	214	147	120
DeKalb	DKC61-45 (RR2/YGCB)	146 ± 2	183	124	97	125	223	145	125
Dyna-Gro	57B90 (RR/YGCB/YGRW)	143 ± 2	169	136	110	121	208	147	109
NK Brand	N68-B8 (LL/Bt)	142 ± 2	180	132	101	119	205	141	117
Dyna-Gro	57P69 (RR/Bt)	142 ± 2	171	139	95	134	215	139	98
DeKalb	DKC63-46 (RR2/YGCB)	141 ± 2	167	130	108	120	215	150	99
AgVenture	AV 8109YPRR	140 ± 2	155	129	118	131	200	140	106
Avg. (bu/a)		145	174	133	107	130	213	145	115
L.S.D._{.05} (bu/a)		8	22	16	18	25	15	20	35
C.V. (%)		9.6	8.1	7.8	10.0	12.6	4.6	8.9	18.9

[†]All Yields are adjusted to 15.5% moisture.

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

LL = contains a gene for tolerance to glufosinate

YGRW, RW = contains a gene for rootworm resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

W = white grain

Table 5. Mean yields and agronomic characteristics of nine early-season corn hybrids evaluated in seven environments for two years (2006-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=14)	Moisture (n=14)	Test		Plant Height (n=4)	Ear Height (n=4)
				Weight (n=8)	Lodging (n=7)		
bu/a							
%							
lbs/bu							
%							
in.							
in.							
DeKalb	RX715 (RR2/YGCB)	152 ± 2	15.3	58.7	1	100	43
Trisler Seeds	T-5175 CB	152 ± 2	14.8	57.2	1	101	43
Trisler Seeds	T-5338 CB	149 ± 2	16.0	55.4	1	101	43
DeKalb	DKC61-45 (RR2/YGCB)	146 ± 2	14.5	58.9	0	100	41
Dyna-Gro	57B90 (RR/YGCB/YGRW)	143 ± 2	16.5	57.9	1	103	43
NK Brand	N68-B8 (LL/Bt)	142 ± 2	14.2	56.8	1	93	37
Dyna-Gro	57P69 (RR/Bt)	142 ± 2	14.9	57.7	2	99	39
DeKalb	DKC63-46 (RR2/YGCB)	141 ± 2	14.6	58.0	1	98	41
AgVenture	AV 8109YPRR	140 ± 2	14.3	59.0	0	99	42
Average		145	15.0	57.7	1	99	41

[†]All Yields are adjusted to 15.5% moisture.

W = white grain

LL = contains a gene for tolerance to glufosinate

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

Table 6. Mean yields of four early-season (<114 DAP) corn hybrids evaluated in seven environments for three years (2005-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=21)	Spring				Milan		Ames
			Knoxville	Crossville	Hill (Non-Irr.)	Springfield	(Irr.)	(Non-Irr.)	
Trisler Seeds	T-5338 CB	159 ± 2	191	170	114	130	216	165	129
DeKalb	RX715 (RR2/YGCB)	159 ± 2	193	149	125	127	211	166	141
DeKalb	DKC61-45 (RR2/YGCB)	153 ± 2	193	148	109	119	215	155	130
Dyna-Gro	57P69 (RR/Bt)	150 ± 2	183	162	109	127	210	149	107
	Avg. (bu/a)	155	190	158	114	126	213	159	127
	L.S.D._{.05} (bu/a)	9	21	18	17	27	24	24	32
	C.V. (%)	10.0	7.5	7.7	9.5	14.3	7.7	9.9	16.9

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 7. Mean yields and agronomic characteristics of four early-season corn hybrids evaluated in seven environments for three years (2005-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=21)	Moisture (n=21)	Test Weight (n=13)	Lodging (n=10)	Plant Height (n=6)	Ear Height (n=6)
Trisler Seeds	T-5338 CB	159 ± 2	16.3	55.6	1	102	43
DeKalb	RX715 (RR2/YGCB)	159 ± 2	15.3	58.6	2	103	43
DeKalb	DKC61-45 (RR2/YGCB)	153 ± 2	14.7	58.9	1	103	41
Dyna-Gro	57P69 (RR/Bt)	150 ± 2	15.1	57.7	3	104	40
	Average	155	15.3	57.7	2	103	42

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 8. Mean yields of 40 medium-season (114-116 DAP) corn hybrids evaluated in six environments in Tennessee during 2007.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=6)	Spring Hill					
			Knoxville	(Non-Irr.)	Springfield	(Irr.)	Milan (Non-Irr.)	Ames
-----bu/a-----								
Agrigold	A6596HX	152 ± 3	191	140	106	243	134	99
NK Brand	N77-P5 (LL/Bt)	152 ± 3	202	116	113	230	151	97
Pioneer	33N58 (HX1/RR2/LL)	151 ± 3	210	114	90	233	165	94
Agrigold	A6633BtRR	150 ± 3	197	130	77	237	151	111
Agrigold	A6622HX	149 ± 3	202	113	87	241	161	92
Dairyland	7615 (RR2/YGCB)	149 ± 3	193	118	102	230	146	106
Pioneer	33M57 (HX1/LL/RR2)	149 ± 3	205	107	82	241	153	106
Belle	1533 Y	149 ± 3	184	123	96	232	158	98
Dyna-Gro	58P59 (RR/Bt)	149 ± 3	202	117	95	236	140	101
DeKalb	DKC66-23 (RR2/YGCB)	148 ± 3	200	131	97	244	130	87
Pioneer	33V16 (YGCB/RR2)	148 ± 3	185	121	85	229	161	106
Belle	1646 RY	147 ± 3	198	111	82	231	153	108
Vigoro	X 7166 RR	146 ± 3	204	113	101	226	139	95
Augusta	A5338CB	146 ± 3	188	107	94	243	139	103
Dyna-Gro	57F87 (YGCB)	145 ± 3	197	120	98	216	136	105
FFR	835 (Bt)	145 ± 3	192	110	90	227	149	102
Dyna-Gro	57P12 (RR/Bt)	144 ± 3	185	115	91	229	151	95
Adler	9050 RR Bt	144 ± 3	163	127	92	238	152	92
Belle	1545 RY	143 ± 3	188	120	97	221	155	80
FFR	746 RR2/Bt	143 ± 3	187	109	92	228	155	87
Steyer	1152 YGCB/RR	143 ± 3	179	115	101	217	138	106
Croplan	751 TS	142 ± 3	188	122	92	222	137	93
Terral	TV 26BR61 (RR/YGCB)	142 ± 3	182	92	87	241	146	102
Dyna-Gro	57G48 (RR/RW)	139 ± 3	161	119	106	217	138	90
Dyna-Gro	57K33 (RR)	138 ± 3	166	132	94	216	138	83
Vigoro	V 55B71 (LL/Bt)	137 ± 3	175	119	83	210	139	95
Augusta	A-06-10HX (LL)	137 ± 3	160	102	99	217	141	103
DeKalb	DKC64-78 (RR2/YGCB)	136 ± 3	168	109	77	227	143	91
FFR	753 BT	135 ± 3	199	105	78	211	132	87
Dyna-Gro	57K58 (RR)	134 ± 3	163	109	93	220	136	80
Agrigold	A6639RR	134 ± 3	150	108	81	208	157	97
Fielder's Choice	NG 6832	133 ± 3	175	89	89	223	148	77
Wyffels	W8365 (LL/Bt)	133 ± 3	164	93	96	209	153	81
DeKalb	DKC65-47 (RR2)	132 ± 3	168	116	70	201	146	94
FFR	756 (RR2/Bt)	131 ± 3	172	97	78	225	119	94

Table 8 (continued)

Brand	Hybrid	Avg. Yield [†]	Spring				Milan		Ames
		± Std Err (n=6)	Knoxville	Hill (Non-Irr.)	Springfield	(Irr.)	(Non-Irr.)		
			----- bu/a -----						
Fielder's Choice	7850 B (Bt)	130 ± 3	160	95	93	205	139	88	
Dairyland	6114 (RR2)	129 ± 3	176	95	72	208	142	83	
Steyer	4171W	129 ± 3	162	117	71	203	139	80	
FFR	787 RR2/Bt	126 ± 3	178	92	50	221	127	89	
Augusta	A06-15	120 ± 3	164	94	71	195	121	74	
	Avg. (bu/a)	141	183	112	89	224	144	95	
	L.S.D._{.05} (bu/a)	8	26	20	24	16	16	21	
	C.V. (%)	8.9	8.8	11.0	16.5	4.5	6.8	12.9	

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 9. Overall mean yields and agronomic characteristics of 40 medium-season corn hybrids evaluated in six environments in Tennessee during 2007.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear
		± Std Error (n=6) bu/a	at Harvest (n=6) %	Weight (n=4) lbs/bu	(n=2) %	Height [‡] (n=2) in.	Height [‡] (n=2) in.
Agrigold	A6596HX	152 ± 3	13.7	57.1	3	97	39
NK Brand	N77-P5 (LL/Bt)	152 ± 3	14.1	57.0	1	100	40
Pioneer	33N58 (HX1/RR2/LL)	151 ± 3	14.2	59.9	0	95	42
Agrigold	A6633BtRR	150 ± 3	13.9	56.6	0	96	39
Agrigold	A6622HX	149 ± 3	14.2	59.3	3	94	41
Dairyland	7615 (RR2/YGCB)	149 ± 3	15.0	57.0	1	94	38
Pioneer	33M57 (HX1/LL/RR2)	149 ± 3	15.0	61.5	1	99	42
Belle	1533 Y	149 ± 3	14.9	56.7	2	100	42
Dyna-Gro	58P59 (RR/Bt)	149 ± 3	14.8	55.5	5	91	35
DeKalb	DKC66-23 (RR2/YGCB)	148 ± 3	14.0	57.9	0	96	39
Pioneer	33V16 (YGCB/RR2)	148 ± 3	13.8	61.6	0	97	41
Belle	1646 RY	147 ± 3	14.6	55.8	1	89	38
Vigoro	X 7166 RR	146 ± 3	14.4	56.5	2	107	44
Augusta	A5338CB	146 ± 3	14.2	55.5	2	94	38
Dyna-Gro	57F87 (YGCB)	145 ± 3	14.8	56.6	1	86	35
FFR	835 (Bt)	145 ± 3	14.8	56.6	1	94	40
Dyna-Gro	57P12 (RR/Bt)	144 ± 3	14.6	56.7	1	94	36
Adler	9050 RR Bt	144 ± 3	15.0	57.8	1	95	39
Belle	1545 RY	143 ± 3	14.4	57.1	1	89	36
FFR	746 RR2/Bt	143 ± 3	14.5	57.9	2	99	41
Steyer	1152 YGCB/RR	143 ± 3	14.9	56.7	2	94	37
Croplan	751 TS	142 ± 3	14.8	57.9	1	98	39
Terral	TV 26BR61 (RR/YGCB)	142 ± 3	15.7	59.2	1	93	42
Dyna-Gro	57G48 (RR/RW)	139 ± 3	14.4	57.2	2	99	37
Dyna-Gro	57K33 (RR)	138 ± 3	14.9	57.4	2	94	39
Vigoro	V 55B71 (LL/Bt)	137 ± 3	13.6	58.7	1	96	34
Augusta	A-06-10HX (LL)	137 ± 3	13.6	57.0	0	95	42
DeKalb	DKC64-78 (RR2/YGCB)	136 ± 3	13.9	59.4	1	87	36
FFR	753 BT	135 ± 3	14.2	59.1	2	85	43
Dyna-Gro	57K58 (RR)	134 ± 3	14.0	55.8	2	90	37
Agrigold	A6639RR	134 ± 3	14.4	59.7	2	89	38
Fielder's Choice	NG 6832	133 ± 3	13.8	58.5	3	96	43
Wyffels	W8365 (LL/Bt)	133 ± 3	13.2	60.1	1	91	39
DeKalb	DKC65-47 (RR2)	132 ± 3	14.4	60.7	0	85	35
FFR	756 (RR2/Bt)	131 ± 3	14.5	58.9	1	94	37
Fielder's Choice	7850 B (Bt)	130 ± 3	13.7	57.1	1	92	40
Dairyland	6114 (RR2)	129 ± 3	13.3	59.6	2	94	40
Steyer	4171W	129 ± 3	14.7	60.4	1	95	43
FFR	787 RR2/Bt	126 ± 3	15.2	58.4	0	92	42
Augusta	A06-15	120 ± 3	16.4	58.9	3	100	44
	Average	141	14.4	58.0	1	94	39

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

[‡]Average of Knoxville and Springfield.

Table 10. Mean yields of 12 medium-season (114-116 DAP) corn hybrids evaluated in six environments for two years (2006-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=12)	Spring					
			Knoxville	Hill (Non-Irr.)	Springfield	Milan (Irr.)	(Non-Irr.)	Ames
----- bu/a -----								
FFR	835 (Bt)	152 ± 2	187	98	146	212	162	107
Dyna-Gro	58P59 (RR/Bt)	152 ± 2	192	103	134	219	150	111
Belle	1533 Y	151 ± 2	181	102	141	217	164	101
Terral	TV 26BR61 (RR/YGCB)	151 ± 2	185	84	139	222	163	113
DeKalb	DKC66-23 (RR2/YGCB)	150 ± 2	188	105	142	223	141	102
Belle	1545 RY	145 ± 2	181	95	137	214	155	89
Dyna-Gro	57F87 (YGCB)	144 ± 2	186	98	134	208	142	98
Steyer	1152 YGCB/RR	143 ± 2	180	96	135	204	157	84
Dyna-Gro	57P12 (RR/Bt)	142 ± 2	178	92	119	215	149	97
FFR	746 RR2/Bt	138 ± 2	175	79	130	201	149	92
FFR	756 (RR2/Bt)	137 ± 2	174	86	121	208	126	106
Dyna-Gro	57K33 (RR)	134 ± 2	167	106	132	188	124	91
Avg. (bu/a)		145	181	95	134	211	148	99
L.S.D._{.05} (bu/a)		8	21	17	23	16	19	26
C.V. (%)		9.2	7.5	11.5	11.7	4.9	8.3	16.2

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 11. Mean yields and agronomic characteristics of 12 medium-season corn hybrids evaluated in six environments for two years (2006-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear
		± Std Err		Weight		Height	Height
		(n=12)	(n=12)	(n=8)	(n=5)	(n=4)	(n=4)
		bu/a	%	lbs/bu	%	in.	in.
FFR	835 (Bt)	152 ± 2	15.8	56.7	1	102	44
Dyna-Gro	58P59 (RR/Bt)	152 ± 2	15.5	55.6	4	101	42
Belle	1533 Y	151 ± 2	15.8	56.8	2	105	45
Terral	TV 26BR61 (RR/YGCB)	151 ± 2	17.0	59.2	0	101	49
DeKalb	DKC66-23 (RR2/YGCB)	150 ± 2	15.0	58.3	2	103	43
Belle	1545 RY	145 ± 2	15.7	57.1	0	101	42
Dyna-Gro	57F87 (YGCB)	144 ± 2	16.0	56.7	2	97	41
Steyer	1152 YGCB/RR	143 ± 2	15.9	56.8	2	101	42
Dyna-Gro	57P12 (RR/Bt)	142 ± 2	16.3	56.7	1	103	41
FFR	746 RR2/Bt	138 ± 2	15.2	57.9	4	107	49
FFR	756 (RR2/Bt)	137 ± 2	15.8	58.6	0	103	42
Dyna-Gro	57K33 (RR)	134 ± 2	15.9	57.5	7	102	43
Average		145	15.8	57.3	2	102	44

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 12. Mean yields of seven medium-season (114-116 DAP) corn hybrids evaluated in six environments for three years (2005-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†]	Spring		Milan		Ames	
		± Std Err (n=18)	Knoxville	Hill (Non-Irr.)	Springfield (Irr.)	(Non-Irr.)		
		----- bu/a -----						
Belle	1533 Y	156 ± 2	188	108	145	212	174	109
Dyna-Gro	58P59 (RR/Bt)	156 ± 2	195	106	142	214	159	119
Belle	1545 RY	154 ± 2	189	105	146	205	169	109
Dyna-Gro	57P12 (RR/Bt)	151 ± 2	192	99	138	206	159	114
Dyna-Gro	57F87 (YGCB)	149 ± 2	189	104	144	200	151	106
Steyer	1152 YGCB/RR	149 ± 2	190	99	142	200	160	102
FFR	746 RR2/Bt	147 ± 2	184	90	138	202	164	106
Avg. (bu/a)		152	189	102	142	206	162	109
L.S.D._{.05} (bu/a)		9	18	18	24	24	22	27
C.V. (%)		9.5	6.3	11.4	11.6	7.3	8.9	14.8

[†]All Yields are adjusted to 15.5% moisture.

Table 13. Mean yields and agronomic characteristics of seven medium-season corn hybrids evaluated in six environments for three years (2005-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear
		± Std Err (n=18)	(n=18)	Weight (n=13)	(n=7)	Height (n=6)	Height (n=6)
		bu/a	%	lbs/bu	%	in.	in.
Belle	1533 Y	156 ± 2	16.5	56.8	3	105	45
Dyna-Gro	58P59 (RR/Bt)	156 ± 2	16.2	56.0	4	104	42
Belle	1545 RY	154 ± 2	16.3	57.0	2	106	43
Dyna-Gro	57P12 (RR/Bt)	151 ± 2	16.9	56.8	3	107	41
Dyna-Gro	57F87 (YGCB)	149 ± 2	16.6	56.8	4	103	42
Steyer	1152 YGCB/RR	149 ± 2	16.6	56.8	3	106	42
FFR	746 RR2/Bt	147 ± 2	15.6	58.2	3	112	52
Average		152	16.4	56.9	3	106	44

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 14. Mean yields of 22 full-season (>116 DAP) corn hybrids evaluated in six environments in Tennessee during 2007.

Brand	Hybrid	Avg. Yield [†]	Spring			Milan		Ames
		± Std Err (n=6)	Knoxville	Hill (Non-Irr.)	Springfield	(Irr.)	(Non-Irr.)	
		----- bu/a -----						
DeKalb	DKC67-23 (RR2/YGCB)	149 ± 4	196	92	106	244	163	94
Garst	8247 (Bt)	147 ± 4	179	109	70	270	167	90
Pioneer	31G71 (HX1/LL/RR2)	146 ± 4	194	105	73	270	152	84
Garst	8295 (RR/Bt)	145 ± 4	184	101	71	266	154	94
Pioneer	31P41	134 ± 4	168	105	55	228	149	102
Augusta	A-06-02HX (LL)	134 ± 4	198	83	45	241	143	95
TN Exp	TN 0704	134 ± 4	171	101	85	212	144	88
Dyna-Gro	58P45 (RR/YGCB)	134 ± 4	198	84	41	232	134	112
TN Exp	TN 0701 (W)	133 ± 4	177	91	58	221	139	111
Fielder's Choice	7880 WPR (RR/Bt/RW)	133 ± 4	185	111	58	224	139	79
Dyna-Gro	58P60 (RR/YGCB)	132 ± 4	185	92	58	235	128	91
Croplan Genetics	799 RB	131 ± 4	179	92	58	222	158	76
TN Exp	TN 0702 (W)	130 ± 4	174	97	58	240	130	83
Augusta	A-04-102CB	129 ± 4	179	82	53	236	141	86
Dyna-Gro	58K02 (RR)	129 ± 4	168	84	56	234	154	80
FFR	842 RR2	128 ± 4	175	94	57	255	117	72
Dyna-Gro	58K40 (RR)	127 ± 4	172	79	66	218	131	97
Dyna-Gro	58P74 (RR/Bt)	127 ± 4	188	81	52	226	119	93
Dyna-Gro	58P19 (RR/Bt)	126 ± 4	197	89	32	228	129	80
DeKalb	DKC69-43 (RR2)	125 ± 4	152	87	54	215	156	86
TN Exp	TN 0506 (W)	121 ± 4	167	82	46	229	125	79
TN Exp	TN 0703 (W)	117 ± 4	168	83	39	211	123	79
Avg. (bu/a)		133	180	92	59	234	141	89
L.S.D._{.05} (bu/a)		10	22	23	30	18	25	26
C.V. (%)		10.8	7.2	15.1	31.2	4.7	10.6	16.3

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

Table 15. Overall mean yields and agronomic characteristics of 22 full-season corn hybrids evaluated in six in Tennessee during 2007.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear
		± Std Error (n=6)	at Harvest (n=6)	Weight (n=4)	(n=3)	Height [‡] (n=2)	Height [‡] (n=2)
		bu/a	%	lbs/bu	%	in.	in.
DeKalb	DKC67-23 (RR2/YGCB)	149 ± 4	14.5	59.0	0	90	37
Garst	8247 (Bt)	147 ± 4	15.2	58.5	0	93	35
Pioneer	31G71 (HX1/LL/RR2)	146 ± 4	14.6	59.4	2	93	40
Garst	8295 (RR/Bt)	145 ± 4	15.4	58.9	1	91	37
Pioneer	31P41	134 ± 4	14.4	58.9	0	92	37
Augusta	A-06-02HX (LL)	134 ± 4	14.0	56.9	1	98	45
TN Exp	TN 0704	134 ± 4	16.8	60.0	1	93	43
Dyna-Gro	58P45 (RR/YGCB)	134 ± 4	15.2	59.8	0	93	43
TN Exp	TN 0701 (W)	133 ± 4	14.6	58.8	1	81	36
Fielder's Choice	7880 WPR (RR/Bt/RW)	133 ± 4	14.5	56.7	1	92	35
Dyna-Gro	58P60 (RR/YGCB)	132 ± 4	15.5	58.9	0	87	40
Croplan Genetics	799 RB	131 ± 4	15.7	59.0	0	96	33
TN Exp	TN 0702 (W)	130 ± 4	14.9	58.2	7	88	40
Augusta	A-04-102CB	129 ± 4	15.8	58.8	2	86	38
Dyna-Gro	58K02 (RR)	129 ± 4	15.5	57.1	0	90	40
FFR	842 RR2	128 ± 4	13.6	55.3	1	94	40
Dyna-Gro	58K40 (RR)	127 ± 4	15.5	59.6	0	95	42
Dyna-Gro	58P74 (RR/Bt)	127 ± 4	14.5	58.0	1	86	35
Dyna-Gro	58P19 (RR/Bt)	126 ± 4	13.7	59.0	1	94	43
DeKalb	DKC69-43 (RR2)	125 ± 4	14.6	60.5	2	86	36
TN Exp	TN 0506 (W)	121 ± 4	16.5	59.7	2	85	39
TN Exp	TN 0703 (W)	117 ± 4	14.6	60.5	2	92	40
Average		133	15.0	58.7	1	91	39

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

[‡]Average of Knoxville and Springfield.

Table 16. Mean yields of eight full-season (>116 DAP) corn hybrids evaluated in six environments for two years (2006-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†]	Spring Hill			Milan		Ames
		± Std Err (n=12)	Knoxville	(Non-Irr.)	Springfield	(Irr.)	(Non-Irr.)	
		bu/a						
DeKalb	DKC67-23 (RR2/YGCB)	149 ± 2	191	88	124	225	161	103
Pioneer	31P41	140 ± 3	175	89	98	218	145	114
Dyna-Gro	58P45 (RR/YGCB)	139 ± 2	191	75	97	213	152	106
Dyna-Gro	58P60 (RR/YGCB)	136 ± 3	180	76	107	219	139	95
FFR	842 RR2	130 ± 3	166	89	91	226	134	77
Dyna-Gro	58K40 (RR)	130 ± 3	175	70	92	201	135	106
Dyna-Gro	58K02 (RR)	128 ± 3	165	73	88	212	148	84
TN Exp	TN 0506 (W)	119 ± 3	150	78	83	196	119	90
Avg. (bu/a)		134	174	80	98	214	141	97
L.S.D._{.05} (bu/a)		9	18	21	27	18	22	25
C.V. (%)		10.6	6.9	15.9	17.7	5.6	9.9	17.1

[†]All Yields are adjusted to 15.5% moisture.

Table 17. Mean yields and agronomic characteristics of eight full-season corn hybrids evaluated in six environments for two years (2006-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†]	Moisture (n=12)	Test	Lodging (n=6)	Plant	Ear
		± Std Err (n=12)		Weight (n=8)		Height (n=4)	Height (n=4)
		bu/a	%	lbs/bu	%	in.	in.
DeKalb	DKC67-23 (RR2/YGCB)	149 ± 2	15.6	58.7	1	99	43
Pioneer	31P41	140 ± 3	15.8	58.7	2	101	44
Dyna-Gro	58P45 (RR/YGCB)	139 ± 2	16.5	59.5	3	102	49
Dyna-Gro	58P60 (RR/YGCB)	136 ± 3	17.0	58.8	1	99	48
FFR	842 RR2	130 ± 3	15.3	55.8	7	101	44
Dyna-Gro	58K40 (RR)	130 ± 3	16.7	59.8	2	102	48
Dyna-Gro	58K02 (RR)	128 ± 3	17.0	56.8	3	98	44
TN Exp	TN 0506 (W)	119 ± 3	17.4	60.0	3	94	46
Average		134	16.4	58.5	3	99	46

[†]All Yields are adjusted to 15.5% moisture.

W = white grain

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

Table 18. Mean yields of two full-season (>116 DAP) corn hybrid evaluated in five environments for three years (2005-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=15)	Spring Hill		Milan		
			Knoxville (Non-Irr.)	Springfield (Irr.)	(Irr.)	(Non-Irr.)	
FFR	842 RR2	150 ± 2	172	103	96	226	153
TN Exp	TN 0506 (W)	136 ± 2	161	95	88	202	136
	Avg. (bu/a)	143	167	99	92	214	145
	L.S.D._{.05} (bu/a)	10	18	23	25	25	26
	C.V. (%)	10.2	6.8	14.3	15.9	7.2	11.4

[†]All Yields are adjusted to 15.5% moisture.

Table 19. Mean yields and agronomic characteristics of two full-season corn hybrid evaluated in five environments for three years (2005-2007) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=15)	Moisture (n=15)	Test Weight (n=12)	Lodging (n=8)	Plant Height (n=6)	Ear Height (n=6)
FFR	842 RR2	150 ± 2	15.8	56.2	3	104	45
TN Exp	TN 0506 (W)	136 ± 2	17.3	59.9	2	97	48
	Average	143	16.5	58.0	3	101	46

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

[†]All Yields are adjusted to 15.5% moisture.

COUNTY STANDARD TESTS ‡

Table 20. Yields of nine early-season (<114 DAP) conventional and Bt corn hybrids in 12 County Standard Tests in Tennessee and Kentucky during 2007.†‡

MS	Brand/Hybrid #	Avg.	Avg.	Test	KY											
		Yld	Moisture	Weight †	Ballard	Coffee	Crockett	Dyer	Franklin	Fulton	Gibson	Henry	Humphreys	Montgomery	Tipton	Weakley
		bu/a	%	lbs/bu	4/21 §	4/19	3/26	3/27	4/5	4/29	4/19	4/10	4/23	4/2	3/30	4/10
A	Trisler 8A02 CB [P]	164	14.6	59.1	220	116	134	205	163	202	156	162	152	192	156	109
AB	*LG Seeds LG 2600 Bt [P]	160	15.1	56.2	196	111	114	213	177	202	139	168	143	187	149	126
ABC	Agrigold A6459Bt [P]	160	14.8	56.6	209	105	103	218	172	184	150	166	136	193	150	133
ABC	NK Brand N 72-Q6 (CBLL) [C]	159	15.3	56.1	222	106	112	204	163	192	151	164	135	187	149	126
ABCD	**Croplan CPL631 Bt [C]	159	15.0	57.7	202	105	102	196	184	204	153	169	134	184	145	125
BCD	Vigoro V52Y61 (YGCB) [P]	156	14.7	56.1	205	100	125	188	163	195	150	171	125	199	138	117
BCD	NK Brand N 65-M7 [C]	155	15.0	57.1	193	105	101	204	179	189	149	167	126	183	144	124
CD	Trisler T- 5338 CB [P]	153	16.6	54.4	213	102	104	182	173	193	148	160	118	172	144	130
D	Dairyland 5611 (YGCB)	152	15.7	56.5	194	107	92	201	179	198	127	165	124	172	143	125
Average (bu/a)		158	15.2	56.6	206	106	110	201	172	195	147	166	133	186	146	124

MS = Hybrids that have any MS letter in common are not statistically different in yield at the 5% level of probability.

†Yields have been adjusted to 15.5% moisture. Each hybrid was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS).

§ Planting date.

†† Test weight is averaged from 10 locations.

Brand/Hybrid names followed by a [C] or [P] were treated with a seed applied systemic insecticide, either Cruiser [C] or Poncho 250 [P]

Hybrids marked with an asterisk(*), (**), or (***) were in the top performing group in 2006, 2005, and/or 2004, respectively.

‡Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

Table 21. Yields of 20 early-season (<114 DAP) Roundup / stacked corn hybrids in 14 County Standard Tests in Tennessee and Kentucky during 2007.†‡

MS	Brand/Hybrid #	Avg.	Avg.	Test	KY					Gibson			Milan			UT	Martin	
		Yld	Moisture	Weight ¶	Ballard	Carrol	Coffee	Dyer	Franklin	1	2	3	Giles	Henderson	Henry	REC 1	REC 2	Weakley
		bu/a	%	lbs/bu	4/23 §	3/29	4/18	3/27	4/20	4/19	4/18	4/18	4/6	4/9	4/10	4/19	4/19	4/9
A	**Dekalb RX715RR2/YGCB [P]	155	15.2	58.8	192	92	87	204	181	142	160	164	160	111	170	172	164	173
AB	**Dekalb RX715RR2 [P]	155	15.0	58.3	190	91	78	215	187	142	154	152	159	103	170	171	165	186
AB	Agrigold A6479 BtRR [P]	154	14.4	59.0	210	93	96	217	178	146	138	139	156	114	161	164	167	172
ABC	Dekalb DKC63-46RR2/YGCB [P]	153	12.4	58.5	176	96	91	202	169	139	148	151	180	131	152	164	160	181
ABC	Crow's 4842S RR2/YGCB [C]	153	15.0	58.6	200	103	90	177	190	141	142	148	170	96	171	172	163	175
ABC	**Dekalb DKC61-72RR2 [P]	153	13.0	58.7	186	103	79	203	173	133	152	152	169	114	159	171	170	171
ABC	Trisler T-6N51 PLRR [P]	152	14.7	58.8	197	85	90	174	175	142	153	154	170	132	139	162	166	194
ABC	Pioneer 33F85 (RR2) [P]	152	14.9	58.9	201	69	78	228	174	135	138	143	168	137	138	171	172	181
ABC	Dairyland 7212RR2/YGCB	152	13.0	58.2	195	69	85	197	183	144	142	147	160	130	158	170	166	186
ABC	Croplan CPL6886RB [C]	152	14.9	58.8	200	99	92	215	154	140	133	141	154	110	167	172	166	179
ABCD	Dairyland 7611RR2/YGCB	151	14.1	57.9	196	68	92	175	169	152	138	148	172	122	171	164	158	191
ABCD	Vigoro V52RP73 (RR/PLUS) [P]	149	13.6	58.5	202	66	89	196	176	148	131	149	163	106	145	167	162	187
ABCDE	Dyna-Gro 57B90 (RR2/YGPL) [P]	147	15.2	57.9	182	68	81	214	175	132	130	133	168	133	149	173	158	165
BCDE	Crow's 5263T RR2/YGPL [C]	147	13.0	59.6	175	103	82	194	162	140	128	140	154	117	154	162	159	191
CDEF	AgVenture 8036 R2CB [P]	145	13.7	58.3	193	65	78	164	168	134	140	141	167	125	157	167	157	180
CDEF	Belle 1040RY [C]	145	13.1	57.7	192	76	79	157	179	131	124	137	164	114	163	163	160	193
DEF	Croplan CPL6440RB [C]	143	12.8	58.3	187	72	84	156	166	134	130	142	160	122	162	158	159	172
EF	Dyna-Gro 57P01 (RR2/YGCB) [P]	141	12.9	59.3	175	105	79	147	170	112	139	138	161	113	146	162	160	162
EF	Trisler T-5175 RRCB [P]	140	13.3	57.3	181	79	78	156	163	129	132	142	154	111	138	148	159	191
F	FFR 650RRBt [P]	138	13.6	58.1	195	72	82	147	140	134	130	124	155	122	141	162	162	171
Average (bu/a)		149	13.9	58.5	191	84	85	187	172	137	139	144	163	118	156	166	163	180

MS = Hybrids that have any MS letter in common are not statistically different in yield at the 5% level of probability.

†Yields have been adjusted to 15.5% moisture. Each hybrid was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS).

§ Planting date.

¶ Test weight is averaged from 12 locations.

Brand/Hybrid names followed by a [C] or [P] were treated with a seed applied systemic insecticide, either Cruiser [C] or Poncho 250 [P]

Hybrids marked with an asterisk(*), (**), or (***) were in the top performing group in 2006, 2005, and/or 2004, respectively.

Milan R E C = Research and Education Center at Milan.

‡Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

Table 22. Yields of 11 medium-season (114-116 DAP) conventional and Bt corn hybrids in 14 County Standard Tests in Tennessee and Kentucky during 2007.†‡

MS	Brand/Hybrid #	Avg. Yld bu/a	Avg. Moisture %	Test Weight ¶ lbs/bu	KY					KY								
					4/23 §	5/11	4/19	3/26	3/27	4/5	4/29	4/19	4/10	4/23	4/2	4/9	3/30	4/10
A	*LG Seeds LG 2640 Bt [P]	159	14.9	57.1	144	211	98	124	186	164	206	145	143	128	192	207	157	124
AB	**Laser L-9H63 Bt [C]	158	15.9	55.0	123	224	104	89	179	168	215	144	152	116	208	211	149	122
ABC	*Agrigold A6633Bt [P]	156	15.2	56.0	140	212	112	95	189	152	196	148	161	109	200	208	146	120
ABCD	**Dyna-Gro 57F87 (YG) [P]	156	15.9	56.1	139	221	108	91	186	169	206	156	142	101	192	202	141	126
ABCD	**NK Brand N 76-H2 [C]	155	15.9	57.3	131	201	112	111	185	162	219	137	137	120	201	215	136	106
ABCD	Dairyland 5615 (YGCB)	154	16.2	56.1	129	223	103	117	191	162	205	137	145	110	196	197	126	121
BCD	AgVenture AV 8923 [P]	152	14.6	56.5	128	217	93	117	188	160	193	140	145	116	186	194	143	114
CD	Dekalb DKC64-81 (YGCB) [P]	151	14.9	59.2	114	206	102	104	177	165	207	146	133	114	206	201	127	118
CD	Belle 1533 Y [C]	151	16.8	55.7	131	201	103	96	184	161	201	145	142	102	195	200	136	121
CD	Adler 8014 CB	151	16.5	56.7	126	215	98	90	168	170	194	137	149	110	192	200	136	123
D	Dekalb DKC66-21 (YGCB) [P]	150	15.8	58.3	144	229	102	85	186	160	198	122	137	114	187	200	135	104
Average (bu/a)		154	15.7	56.7	132	215	103	102	184	163	204	141	144	113	196	203	139	118

MS = Hybrids that have any MS letter in common are not statistically different in yield at the 5% level of probability.

†Yields have been adjusted to 15.5% moisture. Each hybrid was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS).

§ Planting date.

¶ Test weight is averaged from 12 locations.

Brand/Hybrid names followed by a [C] or [P] were treated with a seed applied systemic insecticide, either Cruiser [C] or Poncho 250 [P]

Hybrids marked with an asterisk(*), (**), or (***) were in the top performing group in 2006, 2005, and/or 2004, respectively.

‡Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

Table 23. Yields of 13 medium-season (114-116 DAP) Roundup / stacked corn hybrids in 14 County Standard Tests in Tennessee and Kentucky during 2007.†‡

MS	Brand/Hybrid #	Avg. Yld bu/a	Avg. Moisture %	Test Weight lbs/bu	KY				Gibson Gibson				UT Martin					
					Carlisle 4/20 §	Coffee 4/18	Dyer 3/27	Franklin 4/20	1 4/18	2 4/18	Giles 4/5	Hardin 4/20	Henderson 4/9	Henry 4/10	Obion 4/9	Robertson 4/23	Weakley 4/9	Weakley 4/9
A	Pioneer 33N58 (HX1,LL,RR2) [P]	154	15.2	59.2	216	96	224	176	138	139	85	72	122	162	226	143	200	153
AB	Belle 1646RY [C]	148	15.5	55.5	228	85	217	163	133	138	77	84	112	177	213	106	183	154
AB	*Dekalb DKC64-78RR2/YGCB [P]	147	15.1	59.0	211	84	220	154	139	135	68	85	111	151	208	153	205	135
B	Belle 1545RY [C]	145	16.2	56.7	220	95	215	148	138	126	78	56	116	156	201	138	194	150
BC	Dyna-Gro 58P59 (RR2/YGCB [P]	145	16.4	55.6	212	89	224	133	138	137	78	53	114	162	206	136	192	158
BC	Pioneer 33R81 (YGCB/RR) [P]	143	15.2	56.3	230	84	231	150	133	131	67	67	118	144	193	128	191	141
BCD	Crow's 5132S RR2/YGCB [C]	142	16.4	59.4	202	87	217	160	131	133	85	51	116	155	200	126	188	141
BCD	Agrigold A6633 BtRR [P]	142	15.0	57.0	228	86	196	162	125	129	77	57	110	153	213	105	200	148
BCD	Dairyland 7615RR/YGCB	141	16.5	56.8	205	91	209	123	138	132	73	39	118	158	208	140	185	158
CDE	Dyna-Gro 57K33 (RR2) [P]	138	15.8	57.5	218	78	196	160	122	110	70	69	117	152	192	115	188	145
DE	Croplan CPL6818RB [C]	136	16.9	57.6	206	84	211	141	130	131	85	51	110	134	183	121	186	130
EF	FFR 756RRBt [P]	131	15.8	57.9	205	76	219	144	112	106	65	60	104	144	194	122	166	117
F	FFR 787RRBt [P]	128	17.0	57.5	206	69	230	156	114	97	59	39	99	138	185	109	172	118
Average (bu/a)		142	15.9	57.4	214	85	216	152	130	126	75	60	113	153	202	126	189	142

MS = Hybrids that have any MS letter in common are not statistically different in yield at the 5% level of probability.

†Yields have been adjusted to 15.5% moisture. Each hybrid was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS).

§ Planting date.

¶ Test weight is averaged from 12 locations.

Brand/Hybrid names followed by a [C] or [P] were treated with a seed applied systemic insecticide, either Cruiser [C] or Poncho 250 [P]

Hybrids marked with an asterisk(*), (**), or (***) were in the top performing group in 2006, 2005, and/or 2004, respectively.

‡Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

Table 24. Yields of five full-season (>116 DAP) conventional and Bt corn hybrids in 13 County Standard Tests in Tennessee and Kentucky during 2007.†‡

MS Brand/Hybrid #	Avg. Yld bu/a	Avg. Moisture %	Test Weight lbs/bu	KY					KY					Weakley		
				§ Cannon	§ Carlisle	§ Coffee	§ Crockett	§ Dyer	§ Franklin	§ Fulton	§ Gibson	§ Henry	§ Humphreys		§ Montgomery	§ Tipton
A *FFR 835 Bt [P]	157	16.0	56.3	4/23	5/11	4/19	3/26	3/27	4/5	4/29	4/19	4/10	4/23	4/2	3/30	4/10
A Pioneer 31D61 (YG) [P]	156	16.6	59.0	145	227	102	118	195	153	205	151	142	119	213	142	124
B Garst 8294 (YGIT) [C]	149	18.4	56.5	142	218	98	116	186	155	237	158	142	110	207	150	112
B Pioneer 31P41 [P]	148	16.4	57.6	132	218	95	119	180	146	208	147	129	104	202	146	107
B Croplan CPL818 Bt [C]	148	16.3	57.6	134	225	93	96	185	145	219	148	129	108	195	132	117
Average (bu/a)	152	16.8	57.4	139	221	98	112	185	152	214	150	135	109	202	139	115

MS = Hybrids that have any MS letter in common are not statistically different in yield at the 5% level of probability.

†Yields have been adjusted to 15.5% moisture. Each hybrid was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS).

§ Planting date.

¶ Test weight is averaged from 12 locations.

Brand/Hybrid names followed by a [C] or [P] were treated with a seed applied systemic insecticide, either Cruiser [C] or Poncho 250 [P]

Hybrids marked with an asterisk(*), (**), or (***) were in the top performing group in 2006, 2005, and/or 2004, respectively.

‡Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

Table 25. Yields of three full-season (>116 DAP) Roundup / stacked corn hybrids in 13 County Standard Tests in Tennessee and Kentucky during 2007.†‡

MS Brand/Hybrid #	Avg. Yld bu/a	Avg. Moisture %	Test Weight lbs/bu	KY			Gibson							Robertson	Weakley	
				§ Carlisle	§ Coffee	§ Dyer	§ Franklin	§ 1	§ 2	§ Giles	§ Hardin	§ Henderson	§ Henry			§ Obion
A Dekalb DKC67-23RR2/YGCB [P]	143	16.2	59.2	4/20	4/18	3/27	4/20	4/18	4/18	4/5	4/20	4/9	4/10	4/9	4/23	4/9
A Pioneer 31G71 (HX1,LL,RR2) [P]	139	16.1	58.5	219	112	217	177	135	133	78	65	105	166	209	94	149
B Dyna-Gro 58P45 (RR2/YGCB) [P]	127	17.2	58.2	213	93	222	163	129	130	81	76	87	152	202	110	142
Average (bu/a)	136	16.5	58.6	212	99	217	169	122	126	76	70	88	157	201	91	143

MS = Hybrids that have any MS letter in common are not statistically different in yield at the 5% level of probability.

†Yields have been adjusted to 15.5% moisture. Each hybrid was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS).

§ Planting date.

¶ Test weight is averaged from 11 locations.

Brand/Hybrid names followed by a [C] or [P] were treated with a seed applied systemic insecticide, either Cruiser [C] or Poncho 250 [P]

Hybrids marked with an asterisk(*), (**), or (***) were in the top performing group in 2006, 2005, and/or 2004, respectively.

‡Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

Table 26. Yields of seven white corn hybrids in eight County Standard Tests in Tennessee and Kentucky during 2007.†‡

MS	Brand/Hybrid #	Avg.	Avg.	Test	KY		Tosh Farm		Wilson Farm		Lincoln	Weakley
		Yld	Moisture	Weight ¶	Carlisle	Coffee	Franklin	Gibson	Henry	Henry		
		bu/a	%	lbs/bu	4/20 §	4/19	4/13	4/16	4/10	3/26	4/20	4/19
A	**Pioneer 33V62 (W) [P]	149	15.1	59.0	174	100	137	192	142	187	119	142
A	*Pioneer 32R38 (W) [P]	148	15.6	56.9	174	99	126	186	149	194	115	141
A	Pioneer 33G58 (W) [P]	146	16.3	59.0	187	100	128	173	144	173	125	142
A	***Pioneer 32B10 (W) [P]	146	17.1	58.4	177	74	141	168	147	191	131	140
AB	Agrigold 6587W [P]	144	16.5	59.6	179	94	129	161	138	196	125	133
AB	*Agrigold 6537W [P]	143	16.4	59.0	174	87	138	166	119	195	116	148
B	Crow's 5750W [C]	137	16.6	59.3	165	85	128	162	130	179	118	127
Average (bu/a)		145	16.2	58.7	176	91	132	173	138	188	121	139

MS = Hybrids that have any MS letter in common are not statistically different in yield at the 5% level of probability.

†Yields have been adjusted to 15.5% moisture. Each hybrid was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS).

§ Planting date.

¶ Test weight is averaged from 7 locations.

Brand/Hybrid names followed by a [C] or [P] were treated with a seed applied systemic insecticide, either Cruiser [C] or Poncho 250 [P]

Hybrids marked with an asterisk(*), (**), or (***) were in the top performing group in 2006, 2005, and/or 2004, respectively.

‡Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

Table 27. Yields and agronomic characteristics of 16 corn hybrids evaluated in Blount County, Tennessee Strip Trial during 2007.

Brand	Hybrid	Yield	Moisture at Harvest	Test Weight	Oil	Protein	Starch
		bu/a	%	lbs/bu	%	%	%
Dekalb	DKC61-69	184	12.8	57.9	4.24	7.9	61.2
Pioneer	33N58	171	13.2	59.1	4.18	7.2	61.7
Wyffels	W8601	171	13.0	57.9	3.89	6.5	62.6
Dekalb	DKC63-46	170	12.4	58.0	3.96	7.5	62.3
Wyffels	W7642	168	13.0	58.4	4.33	8.2	60.9
Pioneer	33M57	167	13.6	61.4	4.19	7.9	61.5
Dekalb	RX715RRYG	164	13.0	59.4	4.24	7.5	61.6
Wyffels	W8257	163	12.6	58.8	3.98	7.8	61.9
Dekalb	DKC64-76	161	13.1	61.1	3.72	8.1	61.8
Dekalb	DKC67-23	160	13.6	58.3	4.26	7.3	61.8
Wyffels	W7387	157	12.7	58.7	3.81	7.6	62.0
Dekalb	DKC64-10	156	12.3	60.4	4.36	8.8	60.4
FFR	798RR	155	13.1	57.9	4.15	7.0	61.5
FFR	Exp 67003 RRYGCB	143	13.1	58.9	3.88	7.4	62.3
Dekalb	DKC65-47	133	12.7	60.8	4.07	7.8	61.5
FFR	787RRBt	132	13.8	58.9	3.92	8.1	61.6
Average		160	13.0	59.1	4.07	7.7	61.7

Location information:

Planted 3/23/07

Fertilizer 180 - 0 - 30 before planting, not side dressed

Starter Fertilizer 11 - 37 - 0 applied in row at 10 gal/A

Furadan used in row at planting

Bicep applied at 2.6 qt/A pre-emergence

Glyphosate applied post overtop at 27 oz/ A

Harvested 6 rows on 30 inch spacing on 9/26/07, yield conversion factors calculated for differing lengths of plot

Yields have been adjusted to 15.5% moisture

Table 28. Overall average yields, moistures, and test weights of 16 early-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2007.†

Brand	Hybrid	County Standard Tests				Research and Education Center Tests		
		Avg. Yield bu/a	Avg. Moisture %	Test Weight lbs/bu	Test / # Loc	Avg. Yield (n=7) bu/a	Moisture (n=7) %	Test Weight (n=4) lbs/bu
Agrigold	A6459Bt	160	14.8	56.6	Early Conv. & Bt / 9	140	13.7	55.9
NK Brand	N72-Q6 (LL/Bt)	159	15.3	56.1	Early Conv. & Bt / 9	146	13.7	56.9
Trisler Seeds	T-5338 CB	153	16.6	54.4	Early Conv. & Bt / 9	145	14.6	55.8
DeKalb	RX715 (RR2/YGCB)	155	15.2	58.8	Early RR Stacked / 14	144	14.2	58.5
Agrigold	A6479BtRR	154	14.4	59.0	Early RR Stacked / 14	145	14.6	58.8
DeKalb	DKC63-46 (RR2/YGCB)	153	12.4	58.5	Early RR Stacked / 14	132	13.2	58.1
Trisler Seeds	T-6N51PLRR (Bt/RW)	152	14.7	58.8	Early RR Stacked / 14	141	14.1	59.0
Dairyland	7212 (RR2/YGCB)	152	13.0	58.2	Early RR Stacked / 14	139	13.7	58.0
Dairyland	7611 (RR2/YGCB)	151	14.1	57.9	Early RR Stacked / 14	140	13.6	58.0
Vigoro	V 52RP73 (RR/Bt)	149	13.6	58.5	Early RR Stacked / 14	127	13.6	57.9
Dyna-Gro	57B90 (RR/YGCB/YGRW)	147	15.2	57.9	Early RR Stacked / 14	136	15.1	57.9
AgVenture	AV 8036YPRR	145	13.7	58.3	Early RR Stacked / 14	130	13.7	58.0
Belle	1040 RY	145	13.1	57.7	Early RR Stacked / 14	142	13.6	58.0
Trisler Seeds	T-5175 CB	140	13.3	57.3	Early RR Stacked / 14	143	14.0	57.5
FFR	650 RR2/Bt	138	13.6	58.1	Early RR Stacked / 14	135	13.5	57.6
Crow's	5132 S (RR/Bt)	142	16.4	59.4	Med RR Stacked / 14	134	14.9	60.3
Average		150	14.3	57.8		139	14.0	57.9

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

†All Yields are adjusted to 15.5% moisture.

Yield comparisons should only be made within the group of hybrids that were evaluated in the same County Standard Test in the same number of locations, e.g., Early Conv. & BT / 9 or Early RR Stacked / 14.

Table 29. Overall average yields, moistures, and test weights of 13 medium-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2007.†

Brand	Hybrid	County Standard Tests				Research and Education Center Tests		
		Avg. Yield	Avg. Moisture	Test Weight	Test / # Loc	Avg. Yield (n=6)	Moisture (n=6)	Test Weight (n=4)
		bu/a	%	lbs/bu		bu/a	%	lbs/bu
FFR	835 (Bt)	157	16.0	56.3	Full Conv. & Bt / 13	145	14.8	56.6
Dyna-Gro	57F87 (YGCB)	156	15.9	56.1	Med Conv. & Bt / 14	145	14.8	56.6
Belle	1533 Y	151	16.8	55.7	Med Conv. & Bt / 14	149	14.9	56.7
Pioneer	33N58 (HX1/RR2/LL)	154	15.2	59.2	Med RR Stacked / 14	151	14.2	59.9
Belle	1646 RY	148	15.5	55.5	Med RR Stacked / 14	147	14.6	55.8
DeKalb	DKC64-78 (RR2/YGCB)	147	15.1	59.0	Med RR Stacked / 14	136	13.9	59.4
Belle	1545 RY	145	16.2	56.7	Med RR Stacked / 14	143	14.4	57.1
Dyna-Gro	58P59 (RR/Bt)	145	16.4	55.6	Med RR Stacked / 14	149	14.8	55.5
Agrigold	A6633BtRR	142	15.0	57.0	Med RR Stacked / 14	150	13.9	56.6
Dairyland	7615 (RR2/YGCB)	141	16.5	56.8	Med RR Stacked / 14	149	15.0	57.0
Dyna-Gro	57K33 (RR)	138	15.8	57.5	Med RR Stacked / 14	138	14.9	57.4
FFR	756 (RR2/Bt)	131	15.8	57.9	Med RR Stacked / 14	131	14.5	58.9
FFR	787 RR2/Bt	128	17.0	57.5	Med RR Stacked / 14	126	15.2	58.4
Average		145	15.9	57.0		143	14.6	57.4

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

†All Yields are adjusted to 15.5% moisture.

Yield comparisons should only be made within the group of hybrids that were evaluated in the same County Standard Test in the same number of locations, e.g.,

Med Conv. & BT / 14 or Med RR Stacked / 14.

Table 30. Overall average yields, moistures, and test weights of four full-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2007.†

Brand	Hybrid	County Standard Tests				Research and Education Center Tests		
		Avg. Yield	Avg. Moisture	Test Weight	Test / # Loc	Avg. Yield (n=6)	Moisture (n=6)	Test Weight (n=4)
		bu/a	%	lbs/bu		bu/a	%	lbs/bu
Pioneer	31P41	148	16.4	57.6	Full Conv. & Bt / 13	134	14.4	58.9
DeKalb	DKC67-23 (RR2/YGCB)	143	16.2	59.2	Full RR Stacked / 13	149	14.5	59.0
Pioneer	31G71 (HX1/LL/RR2)	139	16.1	58.5	Full RR Stacked / 13	146	14.6	59.4
Dyna-Gro	58P45 (RR/YGCB)	127	17.2	58.2	Full RR Stacked / 13	134	15.2	59.8
Average		139	16.5	58.4		141	14.7	59.2

Codes:

Bt, YG, YGCB, CB = contains a *Bacillus thuringiensis* gene for insect resistance

YGRW, RW = contains a gene for rootworm resistance

R, RR, RR2, R2 = contains a gene for tolerance to glyphosate

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

†All Yields are adjusted to 15.5% moisture.

Yield comparisons should only be made within the group of hybrids that were evaluated in the same County Standard Test in the same number of locations, e.g.,

Full Conv. & Bt / 13 or Full RR Stacked / 13.

Table 31. Characteristics, as described by the seed company, of corn hybrids evaluated in yield tests in Tennessee during 2007.†

Early-Season Corn Hybrid Entries		Grain		Herbicide		Released or	
Brand	Hybrid	Color	Maturity	Tolerance	BT Gene	Experimental	Comments from Companies
Adler	3515 RR Bt	Y	107	RR	Bt	R	---
Adler	4740 YGPL	Y	112	RR	Bt	R	---
Agrigold	A6455BtRR	Y	110	RR2	YGCB	R	---
Agrigold	A6459Bt	Y	110	---	YGCB	R	---
Agrigold	A6479BtRR	Y	112	RR2	YGCB	R	---
Agrigold	A6522Bt	Y	113	---	YGCB	R	---
AgVenture	AV 8036YPRR	Y	111	RR	YG Plus	R	Very healthy intact plant
AgVenture	AV 8109YPRR	Y	111	RR	YG Plus	R	Well suited to high yield environments
DeKalb	RX715 (RR2/YGCB)	Y	111	RR2	YGCB	R	---
DeKalb	RX715 VT3 (RR/YGCB/RW)	Y	111	RR2	YGCB + RW	R	---
Augusta	A-06-04HX (LL)	Y	109	LL	HX	R	Excellent standability & plant health
Augusta	A-06-06	Y	112	---	---	R	High yield, excellent standability, health, LG plant
Augusta	A5175CB	Y	108	---	YG	R	Good yield environments, excellent health
Augusta	A5337CB	Y	113	---	YG	R	High yield environments, stress & drought tolerant
Belle	1040 RY	Y	110	RR2	YGCB	R	---
Croplan	6331 RB	Y	111	RR	Bt	R	Good all around agronomically
Croplan	6831 TS	Y	112	RR	RW + Bt	R	Flex ear, drought tolerant, silks well under stress
Crow's	5132 S (RR/Bt)	Y	113	RR	Bt	R	High yield
Dairyland	6009 (RR2)	Y	110	RR2	---	R	---
Dairyland	6210 (RR2)	Y	110	RR2	---	R	---
Dairyland	7010 (RR2/YGCB)	Y	110	RR2	YGCB	R	---
Dairyland	7212 (RR2/YGCB)	Y	112	RR2	YGCB	R	---
Dairyland	7611 (RR2/YGCB)	Y	111	RR2	YGCB	R	---
DeKalb	DKC61-45 (RR2/YGCB)	Y	111	RR2	YGCB	R	---
DeKalb	DKC61-73 (RR2/YGCB)	Y	111	RR2	YGCB	R	---
DeKalb	DKC63-42 VT3 (RR/YGCB/RW)	Y	113	RR2	YGCB + RW	R	---
DeKalb	DKC63-46 (RR2/YGCB)	Y	113	RR2	YGCB	R	---
DeKalb	DKC63-74 (RR2/YGPL) (RW)	Y	113	RR2	YGCB + RW	R	---
DeKalb	DKC63-81 (RR2/YGCB)	Y	113	RR2	YGCB	R	---
Dyna-Gro	57B90 (RR/YGCB/YGRW)	Y	113	RR2	CB + RW	R	Rootworm protected, dryland
Dyna-Gro	57P69 (RR/Bt)	Y	113	RR2	YGCB	R	High yield, silage hybrid
FFR	650 RR2/Bt	Y	110	RR2	Bt	R	Tall, good stadibility
Fielder's Choice	NG 6795 (RR)	Y	112	RR2	---	R	Very good disease package
Freedom	580 CB LL	Y	109	LL	CB	R	---
LG Seeds	LG2590 Bt RW RR	Y	111	RR	Bt + RW	R	High yield, very good health, vigor and roots
NK Brand	N68-B8 (LL/Bt)	Y	110	LL	Bt 11	R	Yield, ear flex, roots
NK Brand	N72-Q6 (LL/Bt)	Y	112	LL	Bt11	R	High yield, ear flex, grey leaf spot resistant
Pioneer	33N55 (RR2)	Y	112	RR2	---	R	---
Pioneer	34A20 (HXX/LL/RR2)	Y	110	RR2	HX1 + HXRW	R	---
Steyer	1095 YGCB/RR	Y	109	RR	Bt	R	---
Trisler Seeds	T-5175 CB	Y	109	---	CB	R	Early hybrid, good stess & disease tolerance
Trisler Seeds	T-5338 CB	Y	113	---	CB	R	High yield, excellent silage
Trisler Seeds	T-6N51PLRR (Bt/RW)	Y	110	RR	CB + RW	R	Well suited for marginal soils
Trisler Seeds	T-7A01RR	Y	111	RR	---	R	Defensive w/ high yield, ideal for bottom land
Trisler Seeds	T-7N53RRCB	Y	112	RR	CB	R	Good stress tolerance, works on all soils
Vigoro	V 52RP73 (RR/Bt)	Y	112	RR	YG Plus	R	---

Table 31 (continued)

Vigoro	V 53YR72 (RR/Bt)	Y	113	RR	YGCB	R	---
Wyffels	W7383 (Bt)	Y	112	---	YGCB	R	High yield
Wyffels	W7645 (LL/Bt)	Y	112	LL	HX1	R	Great stress tolerance
Wyffels	W8257 (RR/Bt)	Y	113	RR2	YGCB	R	Great health and yield

Medium-Season Corn Hybrid Entries		Grain		Herbicide		Released or	
Brand	Hybrid	Color	Maturity	Tolerance	BT Gene	Experimental	Comments from Companies
Adler	9050 RR Bt	Y	116	RR	CB	R	---
Agrigold	A6596HX	Y	114	---	HX	R	---
Agrigold	A6622HX	Y	115	---	HX	R	---
Agrigold	A6633BtRR	Y	115	RR2	YGCB	R	---
Agrigold	A6639RR	Y	116	RR2	---	R	---
Augusta	A-06-10HX (LL)	Y	115	LL	HX	R	Short, stress tolerant, high yield, grain qual, standability
Augusta	A06-15	Y	119	---	---	R	Last minute substitution
Augusta	A5338CB	Y	116	---	YG	R	High yield environments, stress & drought tolerant
Belle	1533 Y	Y	115	---	YGCB	R	---
Belle	1545 RY	Y	115	RR2	YGCB	R	---
Belle	1646 RY	Y	116	RR2	YGCB	R	---
Croplan	751 TS	Y	115	RR	RW + Bt	R	Above average yield, good ear size
Dairyland	6114 (RR2)	Y	114	RR2	---	R	---
Dairyland	7615 (RR2/YGCB)	Y	115	RR2	YGCB	R	---
DeKalb	DKC64-78 (RR2/YGCB)	Y	114	RR2	YGCB	R	---
DeKalb	DKC65-47 (RR2)	Y	115	RR2	---	R	---
DeKalb	DKC66-23 (RR2/YGCB)	Y	116	RR2	YGCB	R	---
Dyna-Gro	57F87 (YGCB)	Y	115	---	YGCB	R	Very drought tolerant
Dyna-Gro	57G48 (RR/RW)	Y	114	RR2	RW	R	Rootworm protected, dryland
Dyna-Gro	57K33 (RR)	Y	114	RR2	---	R	Very good drought tolerance, silage
Dyna-Gro	57K58 (RR)	Y	115	RR2	---	R	Very good drought tolerance, silage
Dyna-Gro	57P12 (RR/Bt)	Y	115	RR2	YGCB	R	High yield for all soils
Dyna-Gro	58P59 (RR/Bt)	Y	116	RR2	YGCB	R	High yield, silage hybrid
FFR	746 RR2/Bt	Y	114	RR2	Bt	R	Stress tolerant, flex, best under high population
FFR	753 BT	Y	115	---	Bt	R	Stand, yield, test wgt, needs high population
FFR	756 (RR2/Bt)	Y	115	RR2	Bt	R	Good yield, stress tolerance, test wieght
FFR	787 RR2/Bt	Y	116	RR2	Bt	R	Yield, stacked hybrid
FFR	835 (Bt)	Y	116	---	Bt	R	High Yield
Fielder's Choice	7850 B (Bt)	Y	115	---	YGCB	R	Excellent standibility
Fielder's Choice	NG 6832	Y	114	---	---	R	Very good stress tolerance
NK Brand	N77-P5 (LL/Bt)	Y	114	LL	Bt11	R	High yield, ear flex
Pioneer	33M57 (HX1/LL/RR2)	Y	115	RR2/LL	HX1	R	---
Pioneer	33N58 (HX1/RR2/LL)	Y	114	RR2/LL	HX1	R	---
Pioneer	33V16 (YGCB/RR2)	Y	114	RR2	YGCB	R	---
Steyer	1152 YGCB/RR	Y	115	RR	Bt	R	---
Steyer	4171W	W	116	---	---	R	---
Terral	TV 26BR61 (RR/YGCB)	Y	116	RR	YGCB	R	High yield environments
Vigoro	V 55B71 (LL/Bt)	Y	114	LL	YGCB	R	Widely adapted w/ excellent late season plant integrity
Vigoro	X 7166 RR	Y	116	RR	---	E	---
Wyffels	W8365 (LL/Bt)	Y	114	LL	CB	R	Stable and healthy

Table 31 (continued)

Full-Season Corn Brand	Hybrid Entries Hybrid	Grain		Herbicide		BT Gene	Released or Experimental	Comments from Companies
		Color	Maturity	Tolerance				
Augusta	A-06-02HX (LL)	Y	119	LL		HX	R	High yield, great standability, tall
Augusta	A-04-102CB	Y	119	---		YG	R	High yield, test wgt, great health, stay green
Croplan Genetics	799 RB	Y	117	RR		Bt	R	For well drained silt loam, fast dry down, off type, early flw
DeKalb	DKC67-23 (RR2/YGCB)	Y	117	RR2		YGCB	R	---
DeKalb	DKC69-43 (RR2)	Y	119	RR2		---	R	---
Dyna-Gro	58K02 (RR)	Y	119	RR2		---	R	Defensive, silage hybrid
Dyna-Gro	58K40 (RR)	Y	117	RR2		---	R	Very good drought tolerance, silage
Dyna-Gro	58P19 (RR/Bt)	Y	119	RR2		YGCB	R	Stress product, good test wgt
Dyna-Gro	58P45 (RR/YGCB)	Y	120	RR2		YGCB	R	High yield, defensive, silage, drought tolerant
Dyna-Gro	58P60 (RR/YGCB)	Y	120	RR2		YGCB	R	Very good test weight, stalks, drought tolderant, silage
Dyna-Gro	58P74 (RR/Bt)	Y	117	RR2		YGCB	R	Excellent agronomics, disease resistance
FFR	842 RR2	Y	117	RR2		---	R	Grain or Silage
Fielder's Choice	7880 WPR (RR/Bt/RW)	Y	117	RR2		YGCB + RW	R	High yield potential
Garst	8247 (Bt)	Y	117	---		YG1	R	High yield
Garst	8295 (RR/Bt)	Y	118	RR		YG1	R	High yield, good roots
Pioneer	31G71 (HX1/LL/RR2)	Y	118	RR2/LL		HX1	R	---
Pioneer	31P41	Y	118	---		---	R	---
TN Exp	TN 0506 (W)	W	120	---		---	E	---
TN Exp	TN 0701 (W)	W	120	---		---	E	---
TN Exp	TN 0702 (W)	W	120	---		---	E	---
TN Exp	TN 0703 (W)	W	120	---		---	E	---
TN Exp	TN 0704	Y	120	---		---	E	---

Codes:

Bt, YG, YGCB, CB, HX = contains a *Bacillus thuringiensis* gene for insect resistance

CBRW, RW, CRW = contains a gene for rootworm resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

† Infomation on this table provided by the respective seed companies.

LL = contains a gene for tolerance to glufosinate

W = white grain

RR, R, R2, RR2 = contains a gene for tolerance to glyphosate

Table 32. Contact information for corn hybrid seed companies evaluated in yield tests in Tennessee during 2007.

Company	Contact	Phone	Email	Web site	Address
AgriGold Hybrids		618-943-5776		www.agrigold.com	RR#1 Box 203, St. Francisville, IL 62460
AgVenture D&M	Gary Allerkamp Kenny Kingins Henry Co Coop	270-756-8783 270-293-5467 888-767-0048	ageaav@aol.com kwkingins@yahoo.com	www.agventure.com	P.O. Box 794, Elizabethtown, KY 42702 6331 St. Rd. 121 S., Murray, KY 42071 4075 US 641 S., Murray, KY 42071
Augusta Seed Corporation		540-886-6055	augustaseed@aol.com		473 Tisdale Farm Ln, Stuanton, VA 24401
Belle Southern Hybrids	Jeff Armstrong Don Henderson Jeff Dangle	870-579-2286	jarmstrong@bscn.com dhenderson@bscn.com jeff.dangle@centurytel.net	www.bellecorn.com	P.O. Box 9, Waldenburg, AR 72475
Croplan Genetics/Land o Lakes	Will Huckon John Patterson	931-231-6791 931-273-3590		www.croplangenetics.com	Ethridge, TN Manchester, TN
Crow's Hybrid Corn Co.	Carl Gardner	731-431-6839	carl.gardner@crowshybrid.com	www.crowshybrid.com	3395 Leatherwood Rd, Williamsport, TN 38487
Dairyland Seed Co	Lanny Warren	731-234-2921	lanny.warren@charter.net	www.dairylandseed.com	208 South Thompson St., Union City, TN 38261
Monsanto (Dekalb)		800-335-2676		www.dekalb.com	
United Agri Products (Dyna-Gro)	Larry Stauber	901-277-3261	larry.stauber@uap.com	www.dynagroseed.com	57 Germantown Ct Suite 200, Cordova, TN 38018
Tennessee Farmers Coop	Jim Payne Chris Morris	901-652-0903 615-218-7963	jpayne@ourcoop.com	www.ourcoop.com	West TN East & Middle TN
Grow Direct Inc (Fielders Choice)	Dave Haines	800-321-3177	dhaines@landecag.com	www.fielderschoicedirect.com	306 N. St., Monticello, IN 47960
LG Seeds	Jesse Grogan	765-426-2763	jesse.grogan@lgseeds.com	www.lgseeds.com	1320 South 20th St., Lafayette, IN 47905
Syngenta (NK Brand, Garst)		763-593-7333		www.nk-us.com	7500 Olson Memorial Hwy, Golden Valley, MN 55427
Pioneer Hi-Bred Int.	Michael Hughes	800-331-2475	michael.hughes@pioneer.com	www.pioneer.com	7501 Memorial Pkwy SW Suite 205, Huntsville, AL 35802
Steyer Seeds	Joe Steyer	800-231-4274	joesteyer@yahoo.com	www.steyerseeds.com	6154 N. Co. Rd. 33, Tiffin, OH 44883
University of Tennessee	Dennis West	865-974-8826	dwest3@utk.edu		3421 Joe Johnson Dr, Knoxville, TN 37996-4561
Terral Seed Inc	Larry Mullen	318-559-2840	lmullen@terralseed.com	www.terralseed.com	P O Box 826, Lake Providence, LA 71254
Trisler Seeds Inc	Derrel Wegner	270-853-2360	viking1028@aol.com	www.trisler.com	3274 E 800 North Rd., Fairmount, IL 61841
Unisouth Genetics (Adler, Freedom)	Stacy Burwick	615-242-3397	sburwick@usgseed.com	www.usgseed.com	2640-C Nolensville Rd., Nashville, TN 37211
Crop Production Services (Vigoro)	Steve Johnson	731-885-5121	sjohnson@agriumretail.com	www.vigorofoods.com	530 N. Fifth St/ P O Box 40, Union City, TN 38281
Wyffels Hybrids Inc.	Scott Janes	270-926-2420	scojan@milesnmore.com	www.wyffels.com	Miles Farm Supply, P.O. Box 22879, Owensboro, KY 42304