

Corn Grain Hybrid Tests in Tennessee

2010

Fred L. Allen, Coordinator, Agronomic Crop Variety Testing & Demonstrations

Richard Johnson, Research Associate, Agronomic Crop Variety Testing & Demonstrations

Robert C. Williams, Jr. Extension Area Specialist, Grain Crops

Angela Thompson McClure, Extension Specialist, Corn & Soybeans

**Agronomic Crop Variety Testing and Demonstrations
Department of Plant Sciences
Institute of Agriculture
University of Tennessee
Knoxville**

•Telephone: (865)974-8821 •FAX: (865)974-1947 •email: allenf@utk.edu

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

**<http://varietytrials.tennessee.edu/>
and
www.utcrops.com**

Acknowledgments

This research was funded by the Tennessee Agricultural Experiment Station and UT Extension with partial funding from participating companies.

We gratefully acknowledge the assistance of the following individuals in conducting these experiments:

Department of Plant Sciences

Dr. Dennis West, Professor and Grains Breeder

Mr. David Kincer, Research Associate

Mrs. Kara Warwick, Graduate Research Assistant

Ms. Jennifer Lane, Graduate Research Assistant

Ms. Virginia Sykes, Graduate Research Assistant

Research and Education Centers:

East Tennessee, Knoxville

Dr. Robert Simpson, Center Director

Mr. Bobby McKee, Sr. Farm Crew Leader

Mr. Lee Ellis, Research Assistant

Highland Rim, Springfield

Dr. Barry Sims, Center Director

Mr. Brad S. Fisher, Research Associate

Milan

Dr. Blake Brown, Center Director

Mr. Jason Williams, Research Associate

Mr. James McClure, Research Associate

Ames Plantation, Grand Junction

Dr. Rick Carlisle, Center Director

Mr. Jamie Evans, Research Associate

Mr. Marshall Smith, Research Associate

County Standard Corn Tests

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

<u>County</u>	<u>Producer</u>	<u>Agent</u>
<u>Early/Medium/Full Season Corn Hybrid Test (Conventional & Bt)</u>		
<i>Carlisle, KY</i>	Brad Reddick	Bob Middleton
Coffee	L.A. Teal & Mike England	Steve Harris
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Bobby Woodall	Ed Burns/Creig Kimbro
<i>Fulton, KY</i>	Mark Yaussi	Cam Kenimer
Gibson	Denton Clay Parkins	Philip Shelby
Henry	Tosh Farms	Ranson Goodman
Lake	Hopper Farms	Greg Allen
Montgomery	John Allensworth, Jr.	Rusty Evans
Milan REC	Dr. Blake Brown	Dr. Angela McClure
Obion	Bill Thompson	Tim Smith
Weakley	Billy Scarbrough	Jeff Lannom

<u>Early Season Corn Hybrid Test (RR and Stacked)</u>		
<i>Ballard, KY</i>	J A P Farms	Bob Middleton
Carroll	Steve Coleman	Steve Burgess
Coffee	L.A. Teal & Mike England	Steve Harris
Crockett	Steve Bailey	Richard Buntin
Dyer	Carl & Marvin Schultz	Tim Campbell
Fayette	Joseph McNabb	Jeff Via
Franklin	Terry Baggett	Ed Burns/Creig Kimbro
<i>Fulton, KY</i>	Johnson Linder	Ben Mullins
Giles	Pat Sulcer	Kevin Rose
Henry	Tosh Farms	Ranson Goodman
Lake	LPC Farms	Greg Allen
Lauderdale	Mike Escue	James Griffin, J.C. Dupree
Milan REC (sprayed)	Dr. Blake Brown	Dr. Angela McClure
Milan REC (unspray)	Dr. Blake Brown	Dr. Angela McClure
Obion	David & Scott Wisener	Tim Smith
Tipton	Lee Graves	Mike Morris
Weakley(1)	David Oliver	Jeff Lannom
Weakley(2)	Yarbro Farms	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>Medium Season Corn Hybrid Test (RR & Stacked)</u>		
Cannon	Johnny Powell	Bruce Steelman
<i>Carlisle, KY</i>	Curtsinger Farms	Bob Middleton
Coffee	L.A. Teal & Mike England	Steve Harris
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Terry Baggett	Ed Burns/Creig Kimbro
Henry	Tosh Farms	Ranson Goodman
Hickman	Clint & Claude Callicott	Troy Dugger
Lake	Jack Haynes, Jr.	Greg Allen
Loudon	David Richesin	John Goddard
Milan REC (sprayed)	Dr. Blake Brown	Dr. Angela McClure
Milan REC (unspray)	Dr. Blake Brown	Dr. Angela McClure
Obion	Elwin Tanner	Tim Smith
Robertson	Freddie Edwards	Paul Hart
Weakley	Bob Grooms	Jeff Lannom

<u>Full Season Corn Hybrid Test (RR & Stacked)</u>		
Cannon	Powell Farms	Bruce Steelman
Coffee	L.A. Teal & Mike England	Steve Harris
Dyer	Carl & Marvin Schultz	Tim Campbell
Franklin	Terry Baggett	Ed Burns/Creig Kimbro
Henry	Tosh Farms	Ranson Goodman
Hickman	Clint & Claude Callicott	Troy Dugger
Lake	Brad Keiser	Greg Allen
Loudon	David Richesin	John Goddard
Robertson	Feddie Edwards	Paul Hart
Weakley	David Scarbrough	Jeff Lannom

Table of Contents

Experimental Procedures	6
Interpretation of Data	6
Results	7
Research & Education Center Information	8
Experiment Station Tests	
Early-season Hybrids	9
Medium-season Hybrids	15
Full-season Hybrids	22
County Standard Tests	
Early-season Conventional & Bt Hybrids	26
Early-season RR Stacked Hybrids	27
Medium-season and Full-season Conventional & Bt Hybrids	28
Medium-season RR Stacked Hybrids	29
Full-season RR Stacked Hybrids	30
Common Hybrids in County Standard and Research and Education Center Tests	
Early-season Hybrids	31
Medium-season Hybrids	32
Full-season Hybrids	33
Corn Hybrid Characteristics	34
Seed Company Contact Information	37

CORN GRAIN VARIETY TESTS IN TENNESSEE

RESEARCH AND EDUCATION CENTER TESTS

2010

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), Highland Rim (Springfield), East TN (Knoxville), and Milan (Milan) Research and Education Centers (**REC**). **Duplicate plantings** of the early-, medium- and full-season tests were made at the **Milan and Highland Rim Research and Education Centers** for performance testing **with and without irrigation**. A test was also planted at the Agricenter International research facility in Memphis, however due to equipment issues and seasonal irregularities, the data were not used in the analyses this year.

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 planted to uniform populations per acre at each location using a precision seeding planter. Populations varied with location but attempts were made to make the population the same for all hybrids at a given location (Table 1). 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 19 counties in Tennessee, and three counties in Western Kentucky. The number of counties depended on the test. The County Standard Tests were divided into **early-, medium- and full-season conventional & Bt tests** (same DAP criteria as listed above), **early-, medium-, and full-season glyphosate resistant stacked with Bt 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.

Growing Season: The 2010 growing season was characterized by a wet spring resulting in some flooded fields followed by hotter and dryer than normal conditions. According to the Tennessee Agricultural Statistics Service, producers planted 710,000 acres this year, an increase of 40,000 from 2009. Acreage harvested for grain is projected to be 630,000, up 40,000 acres from last season. Corn grain production for 2010 is projected to be 73.7 million bushels, a decrease of 16 percent from the previous year. Hot dry conditions in August and September advanced harvest by approximately three weeks ahead of the normal pace. The state corn grain yield average is projected to be 117 bu/a, 31 bushels below the 2009 record high yield of 148 bu/a.

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 ten corn hybrids were evaluated in the 2010 **Research and Education Center (REC)** tests in Tennessee. There were 40 hybrids in the early- (Tables 2-7), 52 in the medium- (Tables 8-13), and 18 hybrids in the full-season (Tables 14-19). The 110 hybrids represent 17 different brands (Tables 28-29). The **County Standard (CS)** tests consisted of an early-season conventional & Bt test (6 hybrids at 12 locations, Table 20), a early-season glyphosate resistant Bt stacked trait test (24 hybrids at 18 locations, Table 21), a medium to full-season conventional & Bt test (11 hybrids at 12 locations, Table 22), a medium-season glyphosate resistant Bt stacked trait test (30 hybrids at 14 locations, Table 23), and a full-season glyphosate resistant Bt stacked trait test (11 hybrids at 10 locations, Table 24) for a total of 82 hybrids. In addition to Tennessee counties, the County Standard tests involved Ballard, Carlisle, and Fulton counties in Western Kentucky. Common to both the REC and CS tests were 21 early-season, 28 medium-season, and five full-season hybrids (Tables 25-27). 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-nine of the 110 hybrids in the 2010 REC tests have a Bt gene for Corn Borer resistance (denoted by Bt, YG, CB, YGCB, HX); 65 have a gene for Corn Root Worm resistance (denoted by RW); 93 have a Roundup Ready gene for tolerance to glyphosate herbicide (denoted by R, RR, RR2,GT); 31 have a gene for tolerance to Liberty (glufosinate) herbicide (denoted by LL); nine hybrids are conventional and contain no transgenes; 15 hybrids contain a single transgene; seven are double stacked with combinations of RR, Bt, RW, LL; 48 hybrids are triple stacked with combinations of RR, LL, Bt, RW; 12 hybrids are quad stacked with combinations of RR, LL, Bt, RW; and 19 hybrids have the VT3P, VT3Pro or PRO designation which denotes resistance to glyphosate, corn borer, rootworm, earworm and armyworm (Table 28).

Irrigated vs. Non-irrigated Yields. Duplicate tests were conducted at the Milan and Highland Rim Research and Education Centers with and without irrigation. In a year of lower than normal rainfall during critical stages of the growing season, the average differences in yields across hybrids receiving irrigation versus non-irrigation at Milan were significant: 52 bu/a for early-season hybrids (Table 2), 75 bu/a for medium-season hybrids (Table 8), and 33 bu/a for full-season hybrids (Table 14). The differences in yield between irrigated and non-irrigated plots at the Highland Rim REC were not as great due to the lateness in operation of the newly installed irrigation system. The differences were 7, 11, and 34 bu/a for the early-, medium-, and full-season tests, respectively (Tables 2, 8, and 14).

Table 1. Location information from research and education centers where the corn hybrid tests were conducted in Tennessee in 2010.

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Early Season Corn Hybrids					
East Tennessee	Knoxville	April 19, 2010	September 10, 2010	28,749	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 15, 2010	September 1, 2010	23,813	Dickson Silt Loam
" " (non-irrigated)	"	April 15, 2010	August 31, 2010	23,522	Dickson Silt Loam
Milan (irrigated)	Milan	April 15, 2010	August 26, 2010	26,717	Loring, Calloway Silt Loam
" (non-irrigated)	"	April 15, 2010	August 24, 2010	27,298	Grenada Silt Loam
Ames Plantation	Grand Junction	April 28, 2010	September 19, 2010	23,232	Lexington Silt Loam
Agricenter International	Memphis	April 15, 2010	September 10, 2010	30,721	Falaya Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Medium Season Corn Hybrids					
East Tennessee	Knoxville	April 19, 2010	September 10, 2010	28,169	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 16, 2010	September 7, 2010	22,942	Dickson Silt Loam
" " (non-irrigated)	"	April 15, 2010	September 1, 2010	24,684	Dickson Silt Loam
Milan (irrigated)	Milan	April 15, 2010	August 27, 2010	27,298	Loring, Calloway Silt Loam
" (non-irrigated)	"	April 15, 2010	August 24, 2010	27,007	Grenada Silt Loam
Ames Plantation	Grand Junction	April 28, 2010	September 19, 2010	22,651	Lexington Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Full Season Corn Hybrids					
East Tennessee	Knoxville	April 19, 2010	September 10, 2010	28,749	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 16, 2010	September 2, 2010	24,394	Dickson Silt Loam
" " (non-irrigated)	"	April 15, 2010	September 1, 2010	24,103	Dickson Silt Loam
Milan (irrigated)	Milan	April 15, 2010	September 2, 2010	26,717	Loring, Calloway Silt Loam
" (non-irrigated)	"	April 15, 2010	August 25, 2010	26,426	Grenada Silt Loam
Ames Plantation	Grand Junction	April 28, 2010	September 19, 2010	23,232	Lexington Silt Loam

Table 2. Mean yields of 40 early-season (<114 DAP) corn hybrids evaluated in six environments in Tennessee during 2010.

Brand	Hybrid	Avg. Yield [†]	Springfield		Milan		Ames	
		± Std Err (n=6)	Knoxville	(Irr.) (Non-Irr.)	(Irr.) (Non-Irr.)			
			----- bu/a -----					
Great Lakes	6354G3VT3	162 ± 4	204	131	115	232	171	119
NK Brand	N72Q-3000GT	161 ± 4	209	108	113	233	173	132
DeKalb	DKC62-63 (VT3P)	161 ± 4	191	124	131	228	174	120
Armor	BXC062PRO	161 ± 4	201	118	106	222	183	137
Armor	1161PRO	161 ± 4	199	141	103	237	192	94
Agrigold	A6533VT3	161 ± 4	195	126	104	229	178	136
DeKalb	DKC63-14 (VT3)	161 ± 4	201	139	126	219	148	131
Croplan	6831RHXT (RR/LL/CB/RW)	159 ± 4	187	130	123	218	168	131
Augusta	A0606CBLL	159 ± 4	205	130	125	231	153	110
DeKalb	DKC61-05 (VT3P)	159 ± 4	184	133	136	216	172	110
Augusta	A5461GTCBLL	158 ± 4	179	148	117	239	136	129
Wyffels	W6871 (VT3)	157 ± 4	187	131	112	233	169	112
Dairyland	7313 (RR/CB)	155 ± 4	188	113	124	207	167	131
Dairyland	9910 (RR/CB/RW)	155 ± 4	185	127	104	220	181	112
Agrigold	A6489VT3	154 ± 4	188	128	127	201	163	119
Agrigold	A6553VT3	154 ± 4	199	112	117	227	159	112
Augusta	A5462GT3	154 ± 4	173	129	111	220	164	127
Dairyland	9213Q (RR)	154 ± 4	193	120	104	239	149	117
DeKalb	DKC63-84 (VT3)	152 ± 4	193	125	119	221	131	123
Agrigold	A6458VT3	152 ± 4	208	115	102	216	166	104
Dyna-Gro	57V40 (VT3)	152 ± 4	194	132	97	223	179	85
Agrigold	A6476VT3	149 ± 4	178	130	118	195	146	125
Beck's	5716A3 (RR/LL/CB/RW)	148 ± 4	156	150	128	197	138	118
Wyffels	W7071 (VT3)	147 ± 4	178	114	109	209	168	106
Beck's	6288A3 (RR/LL/CB/RW)	147 ± 4	177	124	102	213	141	124
Augusta	A5175CB	146 ± 4	180	127	119	202	167	84
Beck's XL Brand	6464HR (RR/Hx1)	146 ± 4	173	124	89	225	177	85
Croplan	6725VT3	145 ± 4	181	126	106	193	153	113
Croplan	6286VT3P	145 ± 4	192	103	102	209	158	105
Dyna-Gro	V5373VT3	145 ± 4	174	103	118	220	156	98
AgVenture	RL8042HBW (RR/LL/HX)	145 ± 4	168	98	110	204	176	111
DeKalb	DKC61-35 (VT3P)	144 ± 4	172	117	117	218	140	101
NK Brand	N68B-3000GT	144 ± 4	192	114	111	194	145	107
DeKalb	DKC62-97 (VT3P)	143 ± 4	176	124	108	197	143	111
Agrigold	A6452VT3	142 ± 4	190	100	98	209	148	109
Augusta	A5337EVT3	142 ± 4	182	127	109	223	156	55
Armor	BX909PRO	139 ± 4	173	95	99	190	163	116
Dairyland	6310 (RR)	136 ± 4	154	83	101	194	157	125
Armor	1363PRO	136 ± 4	173	101	118	160	154	106
Augusta	A5460GT3	132 ± 4	144	109	111	175	139	115
	Avg. (bu/a)	149	181	118	111	209	157	111
	L.S.D._{.05} (bu/a)	9	20	26	20	19	27	31
	C.V. (%)	9.4	6.7	12.0	11.1	5.7	10.2	15.6

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

Table 3. Overall mean yields and agronomic characteristics of 40 early-season corn hybrids evaluated in six environments in Tennessee during 2010.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Error (n=6)	at Harvest (n=6)	Weight (n=1)	(n=3)	Height [‡] (n=3)	Height [‡] (n=3)	(n=1)	(n=1)	(n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Great Lakes	6354G3VT3	162 ± 4	15.8	57.6	1	110	41	10.2	4.5	72.5
NK Brand	N72Q-3000GT	161 ± 4	15.3	56.2	0	106	42	9.0	4.4	73.1
DeKalb	DKC62-63 (VT3P)	161 ± 4	15.2	59.3	0	107	36	9.5	4.8	72.7
Armor	BXC062PRO	161 ± 4	15.7	59.0	0	103	37	9.5	4.6	72.9
Armor	1161PRO	161 ± 4	15.0	58.2	1	103	38	9.5	4.2	73.4
Agrigold	A6533VT3	161 ± 4	15.4	57.3	1	101	36	10.1	4.6	72.1
DeKalb	DKC63-14 (VT3)	161 ± 4	15.7	59.8	0	103	41	10.5	4.8	72.4
Croplan	6831RHXT (RR/LL/CB/RW)	159 ± 4	17.1	56.5	0	106	43	9.9	4.5	73.0
Augusta	A0606CBLL	159 ± 4	15.4	58.1	1	109	39	9.3	4.0	73.8
DeKalb	DKC61-05 (VT3P)	159 ± 4	14.8	61.4	1	104	39	9.9	4.6	72.6
Augusta	A5461GTCBLL	158 ± 4	14.0	58.0	0	107	42	9.7	3.8	73.8
Wyffels	W6871 (VT3)	157 ± 4	15.2	57.6	0	107	40	9.3	4.2	73.5
Dairyland	7313 (RR/CB)	155 ± 4	15.3	58.6	1	106	41	10.4	4.7	72.5
Dairyland	9910 (RR/CB/RW)	155 ± 4	13.7	58.4	0	110	40	9.7	4.2	73.0
Agrigold	A6489VT3	154 ± 4	15.7	59.6	1	99	39	10.5	4.1	73.0
Agrigold	A6553VT3	154 ± 4	17.2	56.4	0	103	38	9.9	4.3	73.1
Augusta	A5462GT3	154 ± 4	15.5	59.5	1	110	45	9.8	4.1	73.8
Dairyland	9213Q (RR)	154 ± 4	14.7	58.2	0	107	41	10.4	4.7	72.0
DeKalb	DKC63-84 (VT3)	152 ± 4	15.0	57.8	0	106	41	10.3	4.2	72.9
Agrigold	A6458VT3	152 ± 4	14.3	55.8	0	103	38	10.0	4.1	72.8
Dyna-Gro	57V40 (VT3)	152 ± 4	15.3	57.6	0	107	38	9.8	4.5	72.7
Agrigold	A6476VT3	149 ± 4	14.2	58.7	0	103	39	10.9	4.5	72.1
Beck's	5716A3 (RR/LL/CB/RW)	148 ± 4	15.0	55.8	0	106	42	10.0	4.2	73.2
Wyffels	W7071 (VT3)	147 ± 4	14.8	59.1	0	103	37	10.5	4.2	72.9
Beck's	6288A3 (RR/LL/CB/RW)	147 ± 4	15.3	60.6	0	105	43	10.6	4.2	73.1
Augusta	A5175CB	146 ± 4	14.8	57.7	0	104	40	9.4	4.7	72.6
Beck's XL Brand	6464HR (RR/Hx1)	146 ± 4	14.3	60.6	1	110	41	9.8	4.2	73.3
Croplan	6725VT3	145 ± 4	15.9	60.0	2	105	41	10.6	4.4	72.5
Croplan	6286VT3P	145 ± 4	15.9	59.2	0	101	40	9.3	4.8	72.8
Dyna-Gro	V5373VT3	145 ± 4	17.4	56.7	0	106	41	9.8	4.5	73.2
AgVenture	RL8042HBW (RR/LL/HX)	145 ± 4	15.3	60.0	1	102	37	9.1	4.1	74.0
DeKalb	DKC61-35 (VT3P)	144 ± 4	14.0	60.2	1	103	35	9.4	4.5	73.2
NK Brand	N68B-3000GT	144 ± 4	14.7	56.1	0	102	41	9.1	4.6	72.8
DeKalb	DKC62-97 (VT3P)	143 ± 4	15.4	58.7	0	105	40	10.7	4.0	73.2
Agrigold	A6452VT3	142 ± 4	15.6	59.0	0	103	40	10.4	4.6	72.4
Augusta	A5337EVT3	142 ± 4	17.0	55.7	0	108	41	10.1	4.0	73.3
Armor	BX909PRO	139 ± 4	15.0	59.2	1	102	36	9.6	4.1	73.7

Table 3 (continued)

Brand	Hybrid	Avg. Yield[†] ± Std Error (n=6)	Moisture at Harvest (n=6)	Test Weight (n=1)	Lodging (n=3)	Plant Height[‡] (n=3)	Ear Height[‡] (n=3)	Protein (n=1)	Oil (n=1)	Starch (n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Dairyland	6310 (RR)	136 ± 4	12.9	57.6	2	102	38	10.6	4.3	72.8
Armor	1363PRO	136 ± 4	14.8	59.5	1	102	37	10.4	4.3	72.7
Augusta	A5460GT3	132 ± 4	15.2	56.5	2	103	38	9.4	4.3	73.4
Average		149	15.2	58.3	0	105	40	9.9	4.4	73.0

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 4. Mean yields of 15 early-season (<114 DAP) corn hybrids evaluated in five environments for two years (2009-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err (n=10)	Milan				
			Knoxville	Springfield	(Irr.)	(Non-Irr.)	Ames
			----- bu/a -----				
NK Brand	N72Q-3000GT	188 ± 3	230	142	212	190	168
Great Lakes	6354G3VT3	180 ± 3	221	121	217	187	156
DeKalb	DKC63-14 (VT3)	180 ± 3	224	142	208	171	157
DeKalb	DKC63-84 (VT3)	179 ± 3	219	143	205	170	159
Agrigold	A6533VT3	179 ± 3	215	111	211	189	169
Wyffels	W6871 (VT3)	176 ± 3	204	128	216	183	150
Dairyland	7313 (RR/CB)	176 ± 3	208	140	199	180	153
Dyna-Gro	V5373VT3	176 ± 3	206	134	211	180	148
Augusta	A0606CBLL	175 ± 3	222	127	217	180	130
Agrigold	A6489VT3	174 ± 3	205	132	198	177	159
Augusta	A5337EVT3	174 ± 3	219	125	213	187	124
NK Brand	N68B-3000GT	172 ± 3	207	137	193	172	150
Augusta	A5175CB	170 ± 3	211	128	194	184	131
Dyna-Gro	57V40 (VT3)	168 ± 3	215	106	196	184	141
Croplan	6725VT3	168 ± 3	202	123	191	168	156
	Avg. (bu/a)	176	214	129	205	180	150
	L.S.D._{.05} (bu/a)	10	18	27	19	21	31
	C.V. (%)	8.7	5.6	15.2	6.2	7.6	12.5

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

Table 5. Mean yields and agronomic characteristics of 15 early-season corn hybrids evaluated in five environments for two years (2009-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]		Test		Plant	Ear	Protein	Oil	Starch
		± Std Err (n=10)	Moisture (n=10)	Weight (n=2)	Lodging (n=4)	Height [‡] (n=4)	Height [‡] (n=4)	(n=2)	(n=2)	(n=2)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
NK Brand	N72Q-3000GT	188 ± 3	16.8	55.8	1	105	42	8.8	4.5	72.9
Great Lakes	6354G3VT3	180 ± 3	17.0	57.2	0	108	43	9.6	4.6	72.5
DeKalb	DKC63-14 (VT3)	180 ± 3	16.7	59.3	1	105	43	10.0	4.8	72.5
DeKalb	DKC63-84 (VT3)	179 ± 3	16.3	57.8	1	107	43	10.0	4.4	72.7
Agrigold	A6533VT3	179 ± 3	17.0	57.3	1	102	39	9.5	4.7	72.0
Wyffels	W6871 (VT3)	176 ± 3	16.3	58.0	0	112	42	9.4	4.4	72.9
Dairyland	7313 (RR/CB)	176 ± 3	16.7	58.5	0	105	43	10.1	4.8	72.2
Dyna-Gro	V5373VT3	176 ± 3	18.3	57.0	0	109	43	9.4	4.4	73.2
Augusta	A0606CBLL	175 ± 3	17.0	57.6	1	111	42	9.0	4.2	73.9
Agrigold	A6489VT3	174 ± 3	16.9	59.4	1	103	42	10.0	4.4	72.7
Augusta	A5337EVT3	174 ± 3	17.5	56.1	3	110	44	9.6	4.2	73.0
NK Brand	N68B-3000GT	172 ± 3	16.0	56.2	0	104	43	8.8	4.7	72.8
Augusta	A5175CB	170 ± 3	16.3	58.0	0	107	43	9.3	4.6	72.6
Dyna-Gro	57V40 (VT3)	168 ± 3	16.6	57.8	0	111	39	9.3	4.5	72.8
Croplan	6725VT3	168 ± 3	17.2	59.6	2	107	42	10.2	4.5	72.3
Average		176	16.8	57.7	1	107	42	9.5	4.5	72.7

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 6. Mean yields of five early-season (<114 DAP) corn hybrids evaluated in five environments for three years (2008-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err		Milan			Ames
		(n=15)	Knoxville	Springfield	(Irr.)	(Non-Irr.)	
----- bu/a -----							
Dyna-Gro	V5373VT3	172 ± 2	209	124	210	159	160
Dairyland	7313 (RR/CB)	170 ± 2	209	133	190	155	163
Augusta	A0606CBLL	169 ± 3	222	126	209	155	135
Agrigold	A6489VT3	169 ± 3	212	122	194	155	162
Augusta	A5175CB	162 ± 3	207	116	191	153	143
Avg. (bu/a)		169	212	124	199	155	153
L.S.D._{.05} (bu/a)		10	18	29	21	19	27
C.V. (%)		9.4	5.9	16.4	7.5	8.7	10.9

Table 7. Mean yields and agronomic characteristics of five early-season corn hybrids evaluated in five environments for three years (2008-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err		Test		Plant		Ear		Protein (n=3)	Oil (n=3)	Starch (n=3)
		(n=15)	Moisture (n=15)	Weight (n=3)	Lodging (n=8)	Height [‡] (n=6)	Height [‡] (n=6)					
		bu/a	%	lbs/bu	%	in.	in.	%	%	%		
Dyna-Gro	V5373VT3	172 ± 2	18.0	56.6	0	106	41	9.4	4.4	73.1		
Dairyland	7313 (RR/CB)	170 ± 2	16.6	58.4	1	102	42	10.2	4.9	71.9		
Augusta	A0606CBLL	169 ± 3	16.9	57.5	0	106	40	9.0	4.1	73.9		
Agrigold	A6489VT3	169 ± 3	16.8	59.3	1	99	39	10.1	4.5	72.5		
Augusta	A5175CB	162 ± 3	16.2	57.7	0	104	41	9.1	4.5	72.8		
Average		169	16.9	57.9	1	104	41	9.6	4.5	72.8		

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

[‡]Average of Knoxville and Springfield.

Table 8. Mean yields of 52 medium-season (114-116 DAP) corn hybrids evaluated in six environments in Tennessee during 2010.

Brand	Hybrid	Avg. Yield [†]						
		± Std Err (n=6)	Knoxville	Springfield (Irr.)	Milan (Irr.) (Non-Irr.)		Ames	
----- bu/a -----								
Croplan	6926VT3	163 ± 4	189	175	134	220	142	118
DeKalb	DKC64-69 (VT3P)	163 ± 4	194	146	140	223	144	131
Dyna-Gro	V5683VT3	159 ± 4	210	132	122	240	146	104
NK Brand	N78S-CB/LL	157 ± 4	201	146	111	212	155	113
Augusta	A7664CB	156 ± 4	183	149	123	213	152	117
Great Lakes	6455G3VT3	156 ± 4	196	124	133	199	159	126
Dyna-Gro	57V21 (VT3)	155 ± 4	175	145	119	215	151	125
Agrigold	A6633VT3	155 ± 4	198	126	128	220	149	108
Augusta	A5338CB	154 ± 4	198	133	115	221	143	113
Armor	BX915PRO	152 ± 4	198	123	117	206	150	116
NK Brand	N77P-3000GT	151 ± 4	206	117	125	215	138	107
DeKalb	DKC66-96 (VT3P)	151 ± 4	191	131	119	216	142	108
Dairyland	9214Q (RR/LL/CB/RW)	151 ± 4	188	140	127	203	143	104
Dairyland	7615 (RR2/YGCB)	150 ± 4	190	142	115	207	139	109
Armor	BXT069GT	150 ± 4	200	114	109	223	153	102
Armor	BXC039PRO	150 ± 4	191	105	126	227	140	111
Croplan	7131VT3	150 ± 4	182	131	119	208	154	105
Great Lakes	6576G3VT3	150 ± 4	185	136	109	207	150	111
Armor	1655PRO	149 ± 4	187	130	121	224	127	104
Dyna-Gro	D55Q80 (GT/LL/CB)	148 ± 4	170	141	119	216	113	132
Augusta	A6365GT	148 ± 4	190	115	98	223	154	110
Dairyland	9414Q (RR/LL/CB/RW)	148 ± 4	186	132	113	200	153	105
Beck's XL Brand	6733HXR	148 ± 4	173	133	113	221	130	118
Armor	BXC028VT3	148 ± 4	182	129	124	210	151	91
Dyna-Gro	57V59 (VT3)	148 ± 4	183	119	129	196	148	109
Beck's XL Brand	6903HR	147 ± 4	183	138	111	232	117	102
Steyer	1147GTCBLL	147 ± 4	184	126	100	209	151	112
DeKalb	DKC65-63 (VT3)	146 ± 4	187	129	115	207	143	99
Augusta	A7364GTCBLL	146 ± 4	182	124	129	203	145	94
Terral-REV Brand	25HR39 (RR/LL/HX)	145 ± 4	160	128	113	239	145	83
Wyffels	W8681 (VT3)	144 ± 4	175	131	119	182	151	103
Croplan	7505VT3	144 ± 4	162	139	114	198	141	107
Augusta	A6166GTCBLL	143 ± 4	174	125	112	200	123	127
Armor	1545PRO	143 ± 4	202	129	113	184	125	107
Terral-REV Brand	26R60 (RR)	143 ± 4	186	121	108	210	145	88
Armor	1511C	142 ± 4	176	108	118	229	144	80
Agrigold	A6677	142 ± 4	180	107	100	240	126	102

Table 8 (continued)

Brand	Hybrid	Avg. Yield [†]	Springfield		Milan		Ames	
		± Std Err (n=6)	Knoxville	(Irr.)	(Non-Irr.)	(Irr.)		(Non-Irr.)
Terral-REV Brand	26HR70 (RR/LL/HX)	142 ± 4	174	118	121	209	136	93
Agrigold	A6632VT3Pro	141 ± 4	156	120	112	209	144	107
Armor	1457VT3	141 ± 4	178	130	111	189	138	98
Exsegen	ES518	140 ± 4	162	112	107	233	134	93
Augusta	A6166CBLL	140 ± 4	183	113	116	195	124	107
eMerge	SX849	140 ± 4	178	110	90	222	139	99
Terral-REV Brand	25HR49 (RR/LL/HX)	138 ± 4	161	100	104	228	143	93
Augusta	A6164GT3	137 ± 4	177	110	108	195	136	98
Steyer	1156	136 ± 4	154	106	98	243	137	76
Merschman	M-816A-10 (VT3)	135 ± 4	215	98	83	191	131	94
Terral-REV Brand	26HR50 (RR/LL/HX)	135 ± 4	198	104	87	229	116	73
Terral-REV Brand	25R29 (RR)	135 ± 4	169	134	108	199	120	77
Terral-REV Brand	25R19 (RR)	133 ± 4	148	109	91	238	131	84
Wyffels	W8430 (RR)	126 ± 4	159	113	114	172	118	83
NK Brand	N78N-3000GT	123 ± 4	156	120	114	204	58	85
Avg. (bu/a)		146	182	125	114	213	138	103
L.S.D._{.05} (bu/a)		9	33	23	18	20	19	24
C.V. (%)		9.7	10.9	10.9	9.7	5.7	8.6	14.3

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

Table 9. Overall mean yields and agronomic characteristics of 52 medium-season corn hybrids evaluated in six environments in Tennessee during 2010.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Error (n=6)	at Harvest (n=6)	Weight (n=1)	(n=2)	Height [‡] (n=3)	Height [‡] (n=3)	(n=1)	(n=1)	(n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Croplan	6926VT3	163 ± 4	14.9	61.1	0	98	36	10.3	4.8	72.4
DeKalb	DKC64-69 (VT3P)	163 ± 4	15.6	59.3	1	104	40	9.6	4.8	72.7
Dyna-Gro	V5683VT3	159 ± 4	15.9	57.8	1	118	51	10.7	4.4	72.3
NK Brand	N78S-CB/LL	157 ± 4	15.5	56.7	0	106	39	9.5	4.1	73.6
Augusta	A7664CB	156 ± 4	16.2	56.5	2	105	40	10.3	4.5	72.5
Great Lakes	6455G3VT3	156 ± 4	16.1	55.9	0	108	39	9.4	4.5	73.0
Dyna-Gro	57V21 (VT3)	155 ± 4	16.8	56.4	0	114	42	10.6	4.5	72.3
Agrigold	A6633VT3	155 ± 4	15.9	55.5	0	108	38	9.3	4.5	73.1
Augusta	A5338CB	154 ± 4	15.7	56.0	0	108	43	9.0	4.3	73.3
Armor	BX915PRO	152 ± 4	15.8	57.8	0	111	41	8.9	4.4	73.6
NK Brand	N77P-3000GT	151 ± 4	15.7	56.5	1	111	43	9.0	4.3	73.6
DeKalb	DKC66-96 (VT3P)	151 ± 4	15.0	59.4	0	105	38	9.8	4.7	72.7
Dairyland	9214Q (RR/LL/CB/RW)	151 ± 4	16.5	56.3	0	114	44	10.0	4.5	73.0
Dairyland	7615 (RR2/YGCB)	150 ± 4	16.4	56.3	0	109	40	9.0	4.4	73.6
Armor	BXT069GT	150 ± 4	15.8	57.7	1	107	45	10.0	4.2	73.7
Armor	BXC039PRO	150 ± 4	16.4	60.4	0	112	45	9.6	4.8	72.7
Croplan	7131VT3	150 ± 4	16.7	56.2	0	106	39	10.9	4.5	71.9
Great Lakes	6576G3VT3	150 ± 4	16.4	57.1	0	108	39	9.7	4.4	73.0
Armor	1655PRO	149 ± 4	16.0	59.3	1	111	47	10.7	4.4	72.4
Dyna-Gro	D55Q80 (GT/LL/CB)	148 ± 4	17.0	59.7	1	110	42	9.5	4.2	74.0
Augusta	A6365GT	148 ± 4	15.5	58.7	1	110	42	10.1	4.2	73.1
Dairyland	9414Q (RR/LL/CB/RW)	148 ± 4	15.7	58.5	0	103	39	9.5	4.1	73.6
Beck's XL Brand	6733HXR	148 ± 4	15.3	60.3	1	114	45	9.3	4.1	73.9
Armor	BXC028VT3	148 ± 4	15.5	60.4	1	107	38	9.8	4.7	72.8
Dyna-Gro	57V59 (VT3)	148 ± 4	14.3	58.7	1	105	37	10.2	4.1	73.3
Beck's XL Brand	6903HR	147 ± 4	15.9	60.6	0	112	47	9.4	4.0	73.9
Steyer	1147GTCBLL	147 ± 4	15.7	59.7	0	111	45	11.0	4.1	73.4
DeKalb	DKC65-63 (VT3)	146 ± 4	14.3	58.6	1	105	44	10.3	4.3	72.7
Augusta	A7364GTCBLL	146 ± 4	15.6	57.9	1	105	36	8.8	4.7	73.5
Terral-REV Brand	25HR39 (RR/LL/HX)	145 ± 4	15.3	60.1	1	118	44	9.4	4.2	73.7
Wyffels	W8681 (VT3)	144 ± 4	16.9	56.5	0	107	40	11.3	4.2	72.2
Croplan	7505VT3	144 ± 4	15.2	60.5	0	106	42	10.8	4.5	72.5
Augusta	A6166GTCBLL	143 ± 4	17.4	59.1	0	106	43	10.3	4.2	73.4
Armor	1545PRO	143 ± 4	16.5	57.4	1	110	37	9.1	4.4	73.8
Terral-REV Brand	26R60 (RR)	143 ± 4	15.5	60.3	1	114	42	9.5	3.9	74.2
Armor	1511C	142 ± 4	15.4	60.2	2	112	44	9.9	4.0	73.5
Agrigold	A6677	142 ± 4	15.5	60.1	1	112	49	9.4	4.4	73.3

Table 9 (continued)

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Error (n=6)	at Harvest (n=6)	Weight (n=1)	(n=2)	Height [‡] (n=3)	Height [‡] (n=3)	(n=1)	(n=1)	(n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Terral-REV Brand	26HR70 (RR/LL/HX)	142 ± 4	16.6	59.1	1	120	51	10.6	4.0	73.0
Agrigold	A6632VT3Pro	141 ± 4	15.8	57.2	1	98	36	9.9	4.4	72.8
Armor	1457VT3	141 ± 4	15.6	57.6	2	107	43	10.5	4.4	72.4
Exsegen	ES518	140 ± 4	15.2	60.3	1	115	45	9.7	4.1	73.4
Augusta	A6166CBLL	140 ± 4	16.3	60.1	2	107	42	9.8	4.2	73.9
eMerge	SX849	140 ± 4	15.1	60.1	1	114	44	9.4	4.1	73.7
Terral-REV Brand	25HR49 (RR/LL/HX)	138 ± 4	15.4	59.7	0	119	47	9.7	4.2	73.5
Augusta	A6164GT3	137 ± 4	15.1	59.3	0	105	42	10.1	4.2	73.5
Steyer	1156	136 ± 4	15.1	59.2	0	113	44	10.6	3.9	73.2
Merschman	M-816A-10 (VT3)	135 ± 4	19.1	58.1	0	110	48	10.2	4.6	72.4
Terral-REV Brand	26HR50 (RR/LL/HX)	135 ± 4	16.7	61.2	1	116	42	9.3	4.3	73.5
Terral-REV Brand	25R29 (RR)	135 ± 4	14.9	59.0	1	115	45	9.5	4.1	73.6
Terral-REV Brand	25R19 (RR)	133 ± 4	15.5	59.8	1	113	45	10.0	4.2	73.2
Wyffels	W8430 (RR)	126 ± 4	14.4	59.8	2	102	36	10.3	4.4	72.9
NK Brand	N78N-3000GT	123 ± 4	18.3	57.9	0	115	39	10.5	4.2	73.2
Average		146	15.9	58.6	1	110	42	9.9	4.3	73.2

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 10. Mean yields of 23 medium-season (114-116 DAP) corn hybrids evaluated in five environments for two years (2009-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†] ± Std Err					Ames
		(n=10)	Knoxville	Springfield	Milan (Irr.)	Milan (Non-Irr.)	
		----- bu/a -----					
Agrigold	A6633VT3	185 ± 3	232	129	223	176	164
Dairyland	9214Q (RR/LL/CB/RW)	178 ± 3	216	131	207	176	158
Terral-REV Brand	25HR39 (RR/LL/HX)	178 ± 3	205	132	225	180	146
NK Brand	N77P-3000GT	177 ± 3	223	122	215	169	158
Augusta	A5338CB	175 ± 3	219	113	216	170	158
Dyna-Gro	57V21 (VT3)	175 ± 3	206	121	211	173	163
Augusta	A7664CB	175 ± 3	212	118	209	175	158
Augusta	A7364GTCBLL	174 ± 3	210	131	203	172	153
Steyer	1147GTCBLL	171 ± 3	212	115	202	173	155
Croplan	7131VT3	171 ± 3	210	122	205	175	144
Terral-REV Brand	26HR50 (RR/LL/HX)	171 ± 3	225	102	224	161	143
Dairyland	7615 (RR2/YGCB)	171 ± 3	213	107	210	172	151
Terral-REV Brand	26HR70 (RR/LL/HX)	171 ± 3	207	124	207	171	145
Augusta	A6166CBLL	171 ± 3	211	138	203	158	142
Wyffels	W8681 (VT3)	170 ± 3	202	125	196	174	156
Armor	1511C	170 ± 3	209	121	209	176	136
Great Lakes	6576G3VT3	170 ± 3	214	116	202	170	148
Armor	1457VT3	169 ± 3	211	120	198	173	144
Terral-REV Brand	25HR49 (RR/LL/HX)	169 ± 3	197	113	214	173	148
Croplan	7505VT3	166 ± 3	194	129	199	161	149
Terral-REV Brand	26R60 (RR)	166 ± 3	216	103	200	169	141
Dairyland	9414Q (RR/LL/CB/RW)	165 ± 3	205	115	197	170	139
NK Brand	N78N-3000GT	155 ± 3	198	125	197	112	141
Avg. (bu/a)		171	211	121	207	169	150
L.S.D._{.05} (bu/a)		9	25	20	18	18	23
C.V. (%)		8.3	7.9	11.2	5.7	7.4	10.9

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

Table 11. Mean yields and agronomic characteristics of 23 medium-season corn hybrids evaluated in five environments for two years (2009-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]		Test		Plant	Ear	Protein	Oil	Starch
		± Std Err (n=10)	Moisture (n=10)	Weight (n=2)	Lodging (n=5)	Height [‡] (n=4)	Height [‡] (n=4)			
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Agrigold	A6633VT3	185 ± 3	17.5	56.0	0	109	38	9.0	4.6	72.9
Dairyland	9214Q (RR/LL/CB/RW)	178 ± 3	17.8	57.2	0	112	44	9.8	4.7	72.8
Terral-REV Brand	25HR39 (RR/LL/HX)	178 ± 3	16.8	60.5	0	115	45	9.2	4.3	73.4
NK Brand	N77P-3000GT	177 ± 3	17.5	56.6	0	111	44	8.8	4.4	73.6
Augusta	A5338CB	175 ± 3	17.5	55.7	0	106	42	8.9	4.5	73.1
Dyna-Gro	57V21 (VT3)	175 ± 3	18.1	57.0	0	109	41	10.1	4.4	72.6
Augusta	A7664CB	175 ± 3	17.6	57.0	1	106	40	9.9	4.7	72.4
Augusta	A7364GTCBLL	174 ± 3	17.1	57.9	1	106	39	8.7	4.7	73.7
Steyer	1147GTCBLL	171 ± 3	17.5	59.5	0	110	45	10.5	4.2	73.4
Croplan	7131VT3	171 ± 3	18.0	56.2	0	106	39	10.3	4.6	72.3
Terral-REV Brand	26HR50 (RR/LL/HX)	171 ± 3	18.2	60.7	0	114	41	9.0	4.3	73.6
Dairyland	7615 (RR2/YGCB)	171 ± 3	17.7	56.8	0	109	40	8.9	4.5	73.1
Terral-REV Brand	26HR70 (RR/LL/HX)	171 ± 3	17.6	59.1	0	118	48	9.9	4.1	73.3
Augusta	A6166CBLL	171 ± 3	18.2	59.4	1	107	44	9.5	4.4	73.7
Wyffels	W8681 (VT3)	170 ± 3	18.2	56.8	0	109	41	10.3	4.5	72.4
Armor	1511C	170 ± 3	17.0	60.2	3	114	46	9.6	4.4	73.0
Great Lakes	6576G3VT3	170 ± 3	17.8	57.3	0	107	38	9.3	4.7	72.6
Armor	1457VT3	169 ± 3	17.4	58.0	1	106	43	10.0	4.5	72.3
Terral-REV Brand	25HR49 (RR/LL/HX)	169 ± 3	17.0	59.4	0	118	47	9.4	4.4	73.3
Croplan	7505VT3	166 ± 3	17.0	60.6	0	106	42	10.2	4.7	72.4
Terral-REV Brand	26R60 (RR)	166 ± 3	17.0	60.2	1	116	44	9.2	4.0	74.0
Dairyland	9414Q (RR/LL/CB/RW)	165 ± 3	17.3	58.1	0	104	38	9.0	4.4	73.4
NK Brand	N78N-3000GT	155 ± 3	19.0	58.4	0	116	41	9.8	4.3	73.4
Average		171	17.6	58.2	0	110	42	9.5	4.4	73.1

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 12. Mean yields of nine medium-season (114-116 DAP) corn hybrids evaluated in five environments for three years (2008-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]		Milan			
		± Std Err (n=15)	Knoxville	Springfield	(Irr.)	(Non-Irr.)	Ames
		bu/a					
Agrigold	A6633VT3	176 ± 2	220	123	214	159	163
Augusta	A7664CB	169 ± 2	207	115	201	159	164
Augusta	A5338CB	168 ± 3	217	113	204	143	162
Croplan	7131VT3	167 ± 2	203	119	198	161	155
Dyna-Gro	57V21 (VT3)	167 ± 2	207	111	197	158	163
Dairyland	7615 (RR2/YGCB)	165 ± 2	209	107	197	153	159
Wyffels	W8681 (VT3)	165 ± 2	199	119	189	156	160
Croplan	7505VT3	159 ± 2	187	117	185	147	157
NK Brand	N78N-3000GT	148 ± 2	199	112	191	89	149
Avg. (bu/a)		165	205	115	197	147	159
L.S.D._{.05} (bu/a)		10	22	21	22	20	23
C.V. (%)		9.2	7.3	13.0	7.9	9.3	10.4

Table 13. Mean yields and agronomic characteristics of nine medium-season corn hybrids evaluated in five environments for three years (2008-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]		Test		Plant	Ear	Protein	Oil	Starch
		± Std Err (n=15)	Moisture (n=15)	Weight (n=3)	Lodging (n=9)	Height [‡] (n=6)	Height [‡] (n=6)	(n=3)	(n=3)	(n=3)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Agrigold	A6633VT3	176 ± 2	17.3	56.0	1	103	35	9.0	4.5	72.8
Augusta	A7664CB	169 ± 2	17.4	57.1	1	100	37	9.7	4.5	72.7
Augusta	A5338CB	168 ± 3	17.3	55.8	2	102	40	8.7	4.3	73.3
Croplan	7131VT3	167 ± 2	17.7	56.8	0	99	36	10.1	4.4	72.5
Dyna-Gro	57V21 (VT3)	167 ± 2	17.8	57.2	1	102	38	9.8	4.3	72.9
Dairyland	7615 (RR2/YGCB)	165 ± 2	17.5	57.2	1	103	36	8.7	4.5	73.2
Wyffels	W8681 (VT3)	165 ± 2	17.9	57.0	1	103	38	10.0	4.4	72.6
Croplan	7505VT3	159 ± 2	17.0	60.7	1	99	39	10.0	4.7	72.5
NK Brand	N78N-3000GT	148 ± 2	18.7	58.9	0	110	39	9.5	4.2	73.4
Average		165	17.6	57.4	1	102	38	9.5	4.4	72.9

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

[‡]Average of Knoxville and Springfield.

Table 14. Mean yields of 18 full-season (>116 DAP) corn hybrids evaluated in six environments in Tennessee during 2010.

Brand	Hybrid	Avg. Yield [†]	Springfield		Milan		Ames	
		± Std Err (n=6)	Knoxville	(Irr.) (Non-Irr.)	(Irr.) (Non-Irr.)	bu/a		
Augusta	A6267GTCBLL	157 ± 3	204	141	111	203	159	122
DeKalb	DKC67-21 (VT3P)	154 ± 3	172	159	126	197	163	104
Augusta	A6867CBLL	153 ± 3	184	147	123	192	175	98
Armor	BXG080GT	151 ± 3	184	140	100	201	165	115
Croplan	8505VT3P	151 ± 3	174	161	109	195	146	118
Croplan	851VT3P	150 ± 3	214	145	123	168	145	105
Terral-REV Brand	28HR20 (RR/LL/HX)	147 ± 3	193	151	99	175	159	101
Augusta	A008VT3	146 ± 3	187	147	109	183	138	109
Beck's XL Brand	7988RR	145 ± 3	172	133	107	198	154	105
Terral-REV Brand	28HR29 (RR/LL/HX)	144 ± 3	184	138	93	197	157	95
Croplan	8221VT3	144 ± 3	192	138	112	172	150	97
Dyna-Gro	D57GT60 (GT)	141 ± 3	192	123	89	195	147	101
Augusta	A9169VT3	139 ± 3	211	126	89	172	128	106
Terral-REV Brand	28R10 (RR)	137 ± 4	188	136	96	183	151	68
TN Exp	TN 0902	136 ± 3	164	133	94	167	152	104
Agrigold	A6839	134 ± 3	169	120	84	186	160	88
TN Exp	TN 0702 (W)	132 ± 3	177	110	87	173	144	103
TN Exp	TN 0506 (W)	125 ± 3	165	125	100	151	126	86
Avg. (bu/a)		144	185	137	103	184	151	102
L.S.D._{.05} (bu/a)		9	29	19	22	21	18	27
C.V. (%)		9.5	9.4	8.3	12.9	6.7	7.2	15.6

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

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 18 full-season corn hybrids evaluated in six environments in Tennessee during 2010.

Brand	Hybrid	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Error (n=6)	at Harvest (n=6)	Weight (n=1)	(n=2)	Height [‡] (n=3)	Height [‡] (n=3)	(n=1)	(n=1)	(n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Augusta	A6267GTCBLL	157 ± 3	15.3	56.1	0	111	42	8.6	4.1	74.2
DeKalb	DKC67-21 (VT3P)	154 ± 3	17.3	60.5	0	109	41	10.2	4.6	72.5
Augusta	A6867CBLL	153 ± 3	16.7	60.3	1	113	44	10.0	4.2	73.3
Armor	BXG080GT	151 ± 3	15.6	59.3	1	111	42	9.4	4.0	74.0
Croplan	8505VT3P	151 ± 3	16.0	59.3	1	112	46	11.1	4.3	72.4
Croplan	851VT3P	150 ± 3	16.0	57.1	0	105	38	9.0	4.4	73.2
Terral-REV Brand	28HR20 (RR/LL/HX)	147 ± 3	17.3	60.3	0	119	44	9.4	4.4	73.4
Augusta	A008VT3	146 ± 3	16.0	55.6	1	105	37	9.5	4.4	73.0
Beck's XL Brand	7988RR	145 ± 3	15.8	59.0	0	107	42	9.7	3.8	74.3
Terral-REV Brand	28HR29 (RR/LL/HX)	144 ± 3	18.1	60.3	1	116	45	9.5	4.3	73.4
Croplan	8221VT3	144 ± 3	15.2	58.0	0	109	49	9.6	4.2	73.5
Dyna-Gro	D57GT60 (GT)	141 ± 3	15.7	59.2	1	109	44	9.6	4.1	73.7
Augusta	A9169VT3	139 ± 3	18.6	59.2	1	109	46	9.8	4.4	72.7
Terral-REV Brand	28R10 (RR)	137 ± 4	16.4	61.2	1	115	44	9.8	4.2	73.5
TN Exp	TN 0902	136 ± 3	16.4	59.6	1	109	47	10.1	4.5	72.6
Agrigold	A6839	134 ± 3	16.0	60.9	1	103	39	9.9	4.8	72.8
TN Exp	TN 0702 (W)	132 ± 3	15.6	60.8	0	107	48	10.9	4.8	71.9
TN Exp	TN 0506 (W)	125 ± 3	18.2	61.0	1	106	49	9.8	4.9	72.6
Average		144	16.5	59.3	1	110	44	9.8	4.4	73.2

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 16. Mean yields of six full-season (>116 DAP) corn hybrids evaluated in five environments for two years (2009-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]					Ames
		± Std Err (n=10)	Knoxville	Springfield	Milan (Irr.)	Milan (Non-Irr.)	
		bu/a					
Terral-REV Brand	28HR20 (RR/LL/HX)	180 ± 3	232	121	200	186	162
Augusta	A008VT3	173 ± 3	221	109	200	171	165
Augusta	A9169VT3	172 ± 3	231	117	194	167	149
TN Exp	TN 0702 (W)	163 ± 3	210	102	183	175	144
TN Exp	TN 0902	153 ± 3	197	98	177	168	125
TN Exp	TN 0506 (W)	147 ± 3	194	101	163	156	121
Avg. (bu/a)		165	214	108	186	170	145
L.S.D._{.05} (bu/a)		11	25	22	17	19	38
C.V. (%)		9.7	7.7	13.1	5.9	7.2	15.7

Table 17. Mean yields and agronomic characteristics of six full-season corn hybrids evaluated in five environments for two years (2009-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]		Test		Plant	Ear	Protein (n=2)	Oil (n=2)	Starch (n=2)
		± Std Err (n=10)	Moisture (n=10)	Weight (n=2)	Lodging (n=5)	Height [‡] (n=4)	Height [‡] (n=4)			
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Terral-REV Brand	28HR20 (RR/LL/HX)	180 ± 3	17.8	60.1	0	116	45	9.1	4.4	73.5
Augusta	A008VT3	173 ± 3	17.0	56.1	0	107	40	8.9	4.5	73.0
Augusta	A9169VT3	172 ± 3	19.4	59.0	0	109	46	9.3	4.6	72.7
TN Exp	TN 0702 (W)	163 ± 3	17.1	60.1	1	107	46	10.2	5.0	71.8
TN Exp	TN 0902	153 ± 3	17.7	59.3	0	108	48	10.1	4.7	72.1
TN Exp	TN 0506 (W)	147 ± 3	18.9	60.8	1	104	47	9.5	5.1	72.1
Average		165	18.0	59.2	1	108	45	9.5	4.7	72.5

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

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

W = white grain

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

LL = contains a gene for tolerance to glufosinate

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 18. Mean yields of three full-season (>116 DAP) corn hybrid evaluated in five environments for three years (2008-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]					
		± Std Err (n=15)	Knoxville	Springfield	Milan		Ames
		bu/a					
Augusta	A008VT3	164 ± 3	215	104	186	153	164
TN Exp	TN 0702 (W)	147 ± 2	198	88	162	147	142
TN Exp	TN 0506 (W)	138 ± 2	186	87	150	135	130
Avg. (bu/a)		150	199	93	166	145	145
L.S.D._{.05} (bu/a)		11	23	25	20	20	32
C.V. (%)		10.1	7.1	16.3	7.5	9.2	13.1

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

Table 19. Mean yields and agronomic characteristics of three full-season corn hybrid evaluated in five environments for three years (2008-2010) in Tennessee.

Brand	Hybrid	Avg. Yield [†]		Test		Plant	Ear	Protein (n=3)	Oil (n=3)	Starch (n=3)
		± Std Err (n=15)	Moisture (n=15)	Weight (n=3)	Lodging (n=9)	Height [‡] (n=6)	Height [‡] (n=6)			
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Augusta	A008VT3	164 ± 3	17.0	56.4	1	102	39	8.7	4.3	73.4
TN Exp	TN 0702 (W)	147 ± 2	16.9	59.8	5	101	43	10.1	5.0	71.9
TN Exp	TN 0506 (W)	138 ± 2	18.7	60.6	3	99	45	9.4	5.2	72.0
Average		150	17.5	58.9	3	101	42	9.4	4.8	72.4

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

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

W = white grain

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

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

[‡]Average of Knoxville and Springfield.

COUNTY STANDARD TESTS ‡

Table 20. Yields of six early-season (<114 DAP) conventional and Bt corn hybrids in 12 County Standard Tests in Tennessee and Kentucky during 2010.†‡

MS	Brand/Hybrid	Avg. Yld bu/a	Avg. Moist %	Test ¶ Weight lbs/bu	KY								Milan			
					Carlisle 5/13 §	Coffee 4/12	Dyer 4/15	Franklin 4/22	Fulton 5/3	Gibson 4/14	Henry 4/16	Lake 4/14	Montgomery 4/15	REC 4/6	Obion 4/17	Weakley 4/13
A	*Augusta A06-06CB (LL)	174.2	15.6	58.4	191	174	222	228	165	123	178	169	122	241	137	141
AB	*Agrigold A6533 CL	172.1	15.7	58.0	186	165	214	240	181	124	168	170	127	215	125	151
ABC	***NK Brand N72Q CBLLRW	171.4	15.1	57.0	181	165	219	271	167	119	165	167	129	227	101	146
ABC	*NK Brand N68B CBLLRW	170.4	14.8	57.3	167	166	218	251	173	115	177	141	121	219	128	169
BC	Agrigold A6478	165.3	14.8	60.1	174	165	208	229	148	123	157	165	125	205	118	166
C	Augusta A5457	163.6	14.6	60.7	179	165	220	242	147	121	161	158	119	196	104	151
Average (bu/a)		169.5	15.1	58.6	180	167	217	243	164	121	167	162	124	217	119	154

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 9 locations.

Hybrids marked with an asterisk (*), (**), and/or (***) were in the top performing group in 2009, 2008, and/or 2007 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 21. Yields of 24 early-season (<114 DAP) Roundup / stacked corn hybrids in 18 County Standard Tests in Tennessee and Kentucky during 2010.†‡

MS	Brand/Hybrid	Avg. Yld	Avg. Moist %	Test Weight †	KY																	
					Ballard	Carroll	Coffee	Crockett	Dyer	Fayette	Franklin	Fulton	Giles	Henry	Lake	Lauderdale	Milan REC Fungicide	Milan REC Unsprayed	Obion	Tipton	Weakley (Oliver Farm)	Weakley (Yarbro Farm)
A	*Dekalb DKC63-84 (VT3)	167.6	14.7	57.4	157	170	202	160	226	85	178	131	199	191	232	154	216	218	108	124	120	149
AB	**Agrigold A6533VT3	165.4	15.6	57.5	142	182	198	163	216	96	162	120	197	192	245	156	224	228	81	115	116	147
ABC	Agrigold A6476VT3	162.8	14.4	59.4	160	186	187	175	205	111	167	122	205	176	226	150	189	183	121	102	134	133
ABC	Merschman M-1111 vTtriple	162.2	15.1	58.5	141	158	201	150	216	74	179	126	193	187	250	150	223	219	95	110	124	125
ABCD	Wyffels W6871 (VT3)	159.3	15.5	58.0	142	197	191	144	211	70	168	143	198	178	248	140	225	217	94	91	87	124
BCD	NK Brand N72Q 3000GT	158.8	15.5	56.5	142	174	216	154	221	73	167	132	203	180	228	137	219	226	85	87	82	133
BCD	Dekalb DKC62-97 (VT3P)	158.0	15.4	58.4	154	183	188	186	203	100	128	129	211	177	218	136	200	187	90	96	111	146
BCD	Dairyland 7313 (YGCB/RR2)	157.8	15.2	58.2	151	178	200	159	203	81	163	109	201	152	233	147	216	206	118	71	114	138
BCD	Augusta A5461 GTCBLLC	157.6	14.5	56.4	151	163	204	143	210	82	167	92	196	157	219	146	231	228	116	75	113	141
BCD	Armor 1161PRO	157.5	15.3	58.5	150	198	206	154	215	82	120	99	192	196	249	145	222	222	67	98	95	126
BCDE	Croplan 6831 RHXT	157.4	17.0	57.7	144	169	193	151	225	76	132	123	217	175	232	157	210	208	123	75	106	118
CDE	Mycogen 2T699 VT3	156.8	14.3	58.0	128	174	203	148	203	88	134	115	205	177	233	145	207	212	116	101	106	129
CDE	Mycogen 2V732 VT3	156.8	14.7	58.1	148	169	201	163	221	70	155	122	200	170	237	148	220	208	76	68	105	143
CDEF	*Dyna-Gro V5373VT3	155.7	16.6	58.0	128	162	197	165	205	64	120	134	193	171	239	150	223	217	107	123	92	113
CDEF	Dairyland 9910 (VT3)	154.6	14.3	57.6	130	172	202	150	215	80	138	123	196	177	240	131	202	205	93	103	100	127
CDEF	Agrigold A6458VT3	154.3	14.7	56.7	137	159	208	149	180	86	186	119	194	170	234	142	215	219	69	82	84	146
DEF	Dyna-Gro 57V40 (VT3)	153.4	15.3	57.8	135	166	203	122	222	91	129	138	202	149	235	144	213	205	84	67	120	138
DEFG	Augusta A5460 GT3000	152.2	14.9	56.6	146	167	199	161	204	100	157	88	188	171	214	145	173	185	95	94	113	140
DEFG	Croplan 6150 VT3	152.1	14.6	59.3	111	177	194	186	217	61	152	89	184	169	241	144	200	206	88	97	83	140
DEFG	Beck's 5784RR	152.0	14.9	58.0	139	161	194	161	220	95	134	102	212	163	228	147	194	193	80	66	100	146
EFGH	Beck's 5716A3 GT3000	148.8	14.8	56.6	157	185	188	119	196	79	160	89	186	174	222	136	180	181	104	80	108	132
FGH	Augusta A5337 EVT3	147.4	16.6	56.9	110	177	185	151	186	57	146	89	210	155	235	137	201	207	103	97	88	121
GH	AgVenture 8068 HBW	144.0	14.2	59.0	132	169	188	155	195	62	153	117	172	163	201	124	188	182	98	68	94	134
H	AgVenture R7938	143.3	14.1	60.2	131	160	198	155	178	83	104	107	200	175	226	118	190	179	68	88	104	116
Average (bu/a)		155.7	15.1	57.9	140	173	198	155	208	81	150	115	198	173	232	143	207	206	95	91	104	134

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 13 locations.

Hybrids marked with an asterisk(*) and/or (**) were in the top performing group in 2009 and/or 2008, respectively.

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

Table 22. Yields of nine medium-season (114-116 DAP) and two full-season (>116 DAP) conventional and Bt corn hybrids in 12 County Standard Tests in Tennessee and Kentucky during 2010.†‡

MS	Brand/Hybrid	Avg.	Avg.	Test ¶	KY								Milan			
		Yld	Moisture	Weight	Carlisle	Coffee	Dyer	Franklin	Fulton	Gibson	Henry	Lake	Montgomery	REC	Obion	Weakley
		bu/a	%	lbs/bu	5/13 §	4/12	4/15	4/22	5/3	4/14	4/16	4/14	4/15	4/6	4/17	4/13
A	Agrigold A6677	176.7	16	60	188	144	230	263	146	136	158	182	137	252	120	163
AB	*Steyer 1156	170.1	16	60	183	154	225	254	161	146	155	135	128	240	115	145
AB	*Exsegen ES518	168.8	16	60	181	159	224	250	156	128	160	153	133	232	102	146
AB	****Agrigold A6633Bt	167.5	16	57	164	180	210	223	161	127	163	159	118	220	137	149
B	Augusta A7664CB	166.7	17	58	172	159	208	226	156	114	169	144	144	230	132	145
B	Dairyland 5414 (YGCB)	166.6	17	58	192	160	212	246	144	103	162	154	138	215	123	151
B	Dairyland 5615 (YGCB)	166.2	18	57	184	167	210	208	154	128	162	174	125	220	115	148
B	*Agrigold A6632BtCL	165.8	17	58	192	156	212	233	163	123	165	149	122	216	104	154
B	eMerge SX849	165.1	16	60	175	156	219	270	150	119	154	119	118	233	120	149
Average (bu/a)		168.2	16.5	58.5	181	160	217	242	155	125	161	152	129	229	119	150
Full Season																
A	Augusta A6867CBLL	183.7	16.9	59.9	195	167	218	267	152	151	176	183	153	228	142	173
B	Augusta A008CB	168.8	16.3	56.4	153	152	226	243	151	113	168	169	143	242	112	153
Average (bu/a)		176.3	16.6	58.2	174	159	222	255	152	132	172	176	148	235	127	163

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 9 locations.

Hybrids marked with an asterisk (*), (**), (***), and/or (****) were in the top performing group in 2009, 2008, 2007 and/or 2006, respectively.

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

Table 23. Yields of 30 medium-season (114-116 DAP) Roundup / stacked corn hybrids in 14 County Standard Tests in Tennessee and Kentucky during 2010.†‡

MS	Brand/Hybrid	Avg.	Avg.	Test ¶	KY									Milan REC		Obion	Robertson	Weakley
		Yld	Moist	Weight	Cannon	Carlisle	Coffee	Dyer	Franklin	Henry	Hickman	Lake	Loudon	Fungicide	Unsprayed			
		bu/a	%	lbs/bu	4/15 §	5/26	4/12	4/15	4/19	4/16	5/27	4/20	4/13	4/15	4/15	4/13	4/13	4/16
A	Agrigold A6553VT3	188.1	16.5	56.4	194	169	200	219	182	190	147	216	187	209	206	234	132	147
AB	Dekalb DKC66-96(VT3P)	182.6	15.3	59.5	207	180	196	218	172	165	162	194	159	207	203	218	125	152
AB	Dekalb DKC64-69(VT3P)	182.4	16.0	59.1	198	160	198	216	145	176	171	196	176	206	204	222	142	143
BC	Merschman M-1015 YGVTriple	177.7	15.8	58.4	202	166	203	211	135	188	149	201	161	202	197	210	118	146
BC	*NK Brand N77P-3000GT	176.9	16.2	57.8	217	146	211	209	165	207	129	176	156	195	188	212	123	143
BCD	*Agrigold A6633VT3	176.7	16.2	57.1	183	159	213	214	171	183	119	175	182	200	200	212	134	130
BCD	Dyna-Gro 57V21 VT3	176.1	17.1	57.5	198	165	183	207	147	193	128	193	160	180	187	213	152	158
BCD	Steyer 1147GTCBLL	175.6	16.6	59.2	200	160	173	203	151	203	161	177	172	197	195	189	125	153
BCD	Steyer 1152VT3	175.2	17.7	56.7	204	175	197	197	153	167	152	183	171	193	193	201	126	142
BCD	Terral 25HR39	174.2	15.8	60.1	197	164	194	201	160	172	139	168	174	193	198	220	126	133
CDE	Beck's 6733HXR*	172.7	15.6	60.0	199	145	192	207	162	152	134	172	175	200	196	233	100	153
CDE	Wyffels W8681 (VT3)	172.6	16.8	56.9	188	159	191	208	157	190	127	180	172	184	177	219	128	136
CDE	Mycogen 2T784 SS	172.5	17.4	56.6	202	172	200	194	152	160	137	146	163	194	203	220	134	137
CDEF	Dairyland 9214Q (YGCB/RR2)	171.7	16.8	58.0	193	162	191	201	132	168	145	187	161	208	200	214	104	138
CDEFG	*Agrigold A6632VT3Pro	171.3	16.3	57.5	189	159	188	208	135	184	139	182	169	190	198	202	110	143
CDEFG	Augusta A6166 GTCBLL	171.1	16.4	58.8	190	159	183	205	157	189	140	175	161	191	190	201	112	142
CDEFG	Dyna-Gro V5683VT3	170.7	16.2	56.6	176	168	170	199	145	178	131	182	161	211	204	213	108	145
CDEFG	Dairyland 9414Q HX/RR/YG/RW	170.4	16.7	58.1	195	146	199	207	157	162	131	188	146	188	192	190	133	152
CDEFG	NK Brand N78N-3000GT	169.2	17.3	58.8	213	134	197	211	152	176	138	166	164	192	191	216	106	113
CDEFG	*Croplan 7505VT3	169.2	15.7	59.9	199	156	181	197	184	172	104	173	170	187	187	197	111	150
CDEFGH	Terral 26HR70	169.1	16.1	59.1	178	153	183	210	163	194	121	172	184	191	189	224	85	121
DEFGH	*Dairyland 7615 (YGCB/RR2)	168.1	17.0	57.3	200	155	186	203	140	164	112	196	161	200	200	195	108	136
EFGH	Mycogen 2D770 HX1/RR2	165.5	15.8	58.0	204	154	184	203	175	166	133	169	143	167	162	217	115	125
EFGHI	Armor 1457VT3	165.1	16.3	57.9	186	147	192	201	151	182	128	172	158	177	173	205	137	103
FGHI	NK Brand N78B-GT	163.6	15.6	58.8	205	140	198	197	123	183	139	160	160	176	181	204	95	130
FGHI	*Armor 1545PRO	163.3	17.0	57.7	185	155	195	187	137	177	119	171	167	191	189	191	95	127
GHI	Augusta A6164 GT3000	162.7	15.9	59.4	178	150	175	192	164	166	136	170	149	157	154	202	139	145
HIJ	AgVenture RL8042HBW	160.4	15.2	59.6	172	140	200	190	119	160	130	172	160	197	189	197	76	142
IJ	Merschman M-816A VT3	156.5	17.9	58.1	174	123	169	194	133	190	130	169	156	178	191	210	92	82
J	AgVenture RL8128HBW	152.9	14.5	58.7	178	128	182	189	129	147	114	155	146	177	177	184	120	116
Average (bu/a)		170.8	16.3	58.3	193	155	191	203	152	177	135	178	164	191	190	209	117	136

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.

Hybrids marked with an asterisk (*) were in the top performing group in 2009 and 2008.

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

Table 24. Yields of 11 full-season (>116 DAP) Roundup / stacked corn hybrids in ten County Standard Tests in Tennessee during 2010.†‡

MS Brand/Hybrid	Avg.	Avg.	Test ¶	Cannon	Coffee	Dyer	Franklin	Henry	Hickman	Lake	Loudon	Robertson	Weakley
	Yld	Moist	Weight										
	bu/a	%	lbs/bu	4/15 §	4/12	4/15	4/19	4/16	5/27	4/19	4/13	4/13	4/20
A ***Dekalb DKC67-21 (VT3P)	167.5	15.3	59.6	176	185	209	171	169	169	221	167	90	120
A *Armor 1655PRO	166.7	14.6	59.3	177	183	218	173	139	130	224	173	111	139
A AgVenture RL8950 HBW	165.1	14.7	60.7	184	192	194	189	151	151	208	163	98	120
A Augusta A6867 GTC	164.9	14.8	60.1	177	177	203	175	164	132	209	164	107	143
A Croplan 8756VT3	164.4	15.9	58.8	165	184	208	180	146	142	220	163	103	132
A Terral 28HR20	163.8	15.3	60.5	146	167	221	196	147	158	211	170	102	120
AB *Agrigold A6639VT3	160.1	14.8	59.7	197	164	188	180	155	122	208	161	87	139
AB Terral 28HR29	158.1	16.0	60.3	156	192	203	150	144	144	224	151	86	131
AB Croplan 851VT3	158.0	15.1	57.1	185	190	210	144	158	131	193	156	107	107
AB Dyna-Gro D58VP99	157.7	14.5	60.2	181	169	187	161	153	126	204	155	107	132
B Wyffels W9121 (VT3)	152.2	14.6	59.2	171	172	194	164	138	99	188	161	105	131
Average (bu/a)	161.7	15.0	59.6	174	180	203	171	151	137	210	162	100	128

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 9 locations.

Hybrids marked with an asterisk (*), (**) and/or (***) were in the top performing group in 2009, 2008 and/or 2007, respectively.

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

Table 25. Overall average yields, moistures, and test weights of 21 early-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2010.†

Brand	Hybrid	Avg. of CST and REC Tests			CST Tests				REC Tests		
		Avg. Yield	Moisture	Test Weight	Avg. Yield	Moisture	Test Weight	Test / # Loc	Avg. Yield (n=6)	Moisture (n=6)	Test Weight (n=1)
		bu/a	%	lbs/bu	bu/a	%	lbs/bu		bu/a	%	lbs/bu
Agrigold	A6553VT3	171	16.8	56.4	188	16.5	56.4	Med RR Stacked / 14	154	17.2	56.4
Augusta	A0606CBLL	167	15.5	58.3	174	15.6	58.4	Early Conv. & Bt / 12	159	15.4	58.1
Agrigold	A6533VT3	163	15.5	57.4	165	15.6	57.5	Early RR Stacked / 18	161	15.4	57.3
NK Brand	N72Q-3000GT	160	15.4	56.3	159	15.5	56.5	Early RR Stacked / 18	161	15.3	56.2
DeKalb	DKC63-84 (VT3)	160	14.8	57.6	168	14.7	57.4	Early RR Stacked / 18	152	15.0	57.8
Armor	1161PRO	159	15.1	58.3	157	15.3	58.5	Early RR Stacked / 18	161	15.0	58.2
Croplan	6831RHXT (RR/LL/CB/RW)	158	17.0	57.1	157	17.0	57.7	Early RR Stacked / 18	159	17.1	56.5
Wyffels	W6871 (VT3)	158	15.4	57.8	159	15.5	58.0	Early RR Stacked / 18	157	15.2	57.6
Augusta	A5461GTCBLL	158	14.3	57.2	158	14.5	56.4	Early RR Stacked / 18	158	14.0	58.0
NK Brand	N68B-3000GT	157	14.8	56.7	170	14.8	57.3	Early Conv. & Bt / 12	144	14.7	56.1
Dairyland	7313 (RR/CB)	156	15.2	58.4	158	15.2	58.2	Early RR Stacked / 18	155	15.3	58.6
Agrigold	A6476VT3	156	14.3	59.0	163	14.4	59.4	Early RR Stacked / 18	149	14.2	58.7
Dairyland	9910 (RR/CB/RW)	155	14.0	58.0	155	14.3	57.6	Early RR Stacked / 18	155	13.7	58.4
Agrigold	A6458VT3	153	14.5	56.3	154	14.7	56.7	Early RR Stacked / 18	152	14.3	55.8
Dyna-Gro	57V40 (VT3)	153	15.3	57.7	153	15.3	57.8	Early RR Stacked / 18	152	15.3	57.6
AgVenture	RL8042HBW (RR/LL/HX)	153	15.2	59.8	160	15.2	59.6	Med RR Stacked / 14	145	15.3	60.0
DeKalb	DKC62-97 (VT3P)	150	15.4	58.5	158	15.4	58.4	Early RR Stacked / 18	143	15.4	58.7
Dyna-Gro	V5373VT3	150	17.0	57.4	156	16.6	58.0	Early RR Stacked / 18	145	17.4	56.7
Beck's	5716A3 (RR/LL/CB/RW)	148	14.9	56.2	149	14.8	56.6	Early RR Stacked / 18	148	15.0	55.8
Augusta	A5337EVT3	145	16.8	56.3	147	16.6	56.9	Early RR Stacked / 18	142	17.0	55.7
Augusta	A5460GT3	142	15.0	56.5	152	14.9	56.6	Early RR Stacked / 18	132	15.2	56.5
Average		156	15.3	57.5	160	15.3	57.6		152	15.4	57.4

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

†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 / 12 or Early RR Stacked / 18.

Table 26. Overall average yields, moistures, and test weights of 28 medium-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2010.†

Brand	Hybrid	Avg. of CST and REC Tests			CST Tests				REC Tests		
		Avg. Yield	Moisture	Test Weight	Avg. Yield	Moisture	Test Weight	Test / # Loc	Avg. Yield (n=6)	Moisture (n=6)	Test Weight (n=1)
		bu/a	%	lbs/bu	bu/a	%	lbs/bu		bu/a	%	lbs/bu
DeKalb	DKC64-69 (VT3P)	173	15.8	59.2	182	16.0	59.1	Med RR Stacked / 14	163	15.6	59.3
DeKalb	DKC66-96 (VT3P)	167	15.2	59.5	183	15.3	59.5	Med RR Stacked / 14	151	15.0	59.4
Agrigold	A6633VT3	166	16.0	56.3	177	16.2	57.1	Med RR Stacked / 14	155	15.9	55.5
Dyna-Gro	57V21 (VT3)	166	17.0	56.9	176	17.1	57.5	Med RR Stacked / 14	155	16.8	56.4
Dyna-Gro	V5683VT3	165	16.0	57.2	171	16.2	56.6	Med RR Stacked / 14	159	15.9	57.8
NK Brand	N77P-3000GT	164	15.9	57.1	177	16.2	57.8	Med RR Stacked / 14	151	15.7	56.5
Dairyland	9214Q (RR/LL/CB/RW)	161	16.6	57.2	172	16.8	58.0	Med RR Stacked / 14	151	16.5	56.3
Augusta	A7664CB	161	16.4	57.1	167	16.6	57.7	Med Conv. & Bt / 12	156	16.2	56.5
Steyer	1147GTCBLL	161	16.1	59.4	176	16.6	59.2	Med RR Stacked / 14	147	15.7	59.7
Beck's XL Brand	6733HXR	160	15.4	60.2	173	15.6	60.0	Med RR Stacked / 14	148	15.3	60.3
Terral-REV Brand	25HR39 (RR/LL/HX)	160	15.6	60.1	174	15.8	60.1	Med RR Stacked / 14	145	15.3	60.1
Agrigold	A6677	159	15.8	60.1	177	16.2	60.0	Med Conv. & Bt / 12	142	15.5	60.1
Dairyland	9414Q (RR/LL/CB/RW)	159	16.2	58.3	170	16.7	58.1	Med RR Stacked / 14	148	15.7	58.5
Dairyland	7615 (RR2/YGCB)	159	16.7	56.8	168	17.0	57.3	Med RR Stacked / 14	150	16.4	56.3
Wyffels	W8681 (VT3)	158	16.9	56.7	173	16.8	56.9	Med RR Stacked / 14	144	16.9	56.5
Armor	1655PRO	158	15.3	59.3	167	14.6	59.3	Full RR Stacked / 10	149	16.0	59.3
Augusta	A6166GTCBLL	157	16.9	58.9	171	16.4	58.8	Med RR Stacked / 14	143	17.4	59.1
Croplan	7505VT3	157	15.4	60.2	169	15.7	59.9	Med RR Stacked / 14	144	15.2	60.5
Agrigold	A6632VT3Pro	156	16.1	57.3	171	16.3	57.5	Med RR Stacked / 14	141	15.8	57.2
Terral-REV Brand	26HR70 (RR/LL/HX)	156	16.4	59.1	169	16.1	59.1	Med RR Stacked / 14	142	16.6	59.1
Exsegen	ES518	154	15.7	59.9	169	16.1	59.6	Med Conv. & Bt / 12	140	15.2	60.3
Armor	1545PRO	153	16.8	57.6	163	17.0	57.7	Med RR Stacked / 14	143	16.5	57.4
Armor	1457VT3	153	15.9	57.8	165	16.3	57.9	Med RR Stacked / 14	141	15.6	57.6
Steyer	1156	153	15.6	59.5	170	16.1	59.9	Med Conv. & Bt / 12	136	15.1	59.2
eMerge	SX849	153	15.8	59.9	165	16.4	59.7	Med Conv. & Bt / 12	140	15.1	60.1
Augusta	A6164GT3	150	15.5	59.3	163	15.9	59.4	Med RR Stacked / 14	137	15.1	59.3
NK Brand	N78N-3000GT	146	17.8	58.4	169	17.3	58.8	Med RR Stacked / 14	123	18.3	57.9
Merschman	M-816A-10 (VT3)	146	18.5	58.1	157	17.9	58.1	Med RR Stacked / 14	135	19.1	58.1
Average		158	16.2	58.5	171	16.3	58.6		146	16.0	58.4

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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

LL = contains a gene for tolerance to glufosinate

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

†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 / 12 or Med RR Stacked / 14.

Table 27. Overall average yields, moistures, and test weights of five full-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2010.†

Brand	Hybrid	Avg. of CST and REC Tests			CST Tests				REC Tests		
		Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Test / # Loc	Avg. Yield (n=6) bu/a	Moisture (n=6) %	Test Weight (n=1) lbs/bu
Augusta	A6867CBLL	168	16.8	60.1	184	16.9	59.9	Full Conv. & Bt / 12	153	16.7	60.3
DeKalb	DKC67-21 (VT3P)	161	16.3	60.0	167	15.3	59.6	Full RR Stacked / 10	154	17.3	60.5
Terral-REV Brand	28HR20 (RR/LL/HX)	155	16.3	60.4	164	15.3	60.5	Full RR Stacked / 10	147	17.3	60.3
Croplan	851VT3P	154	15.6	57.1	158	15.1	57.1	Full RR Stacked / 10	150	16.0	57.1
Terral-REV Brand	28HR29 (RR/LL/HX)	151	17.1	60.3	158	16.0	60.3	Full RR Stacked / 10	144	18.1	60.3
Average		158	16.4	59.6	166	15.7	59.5		150	17.1	59.7

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

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

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

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P, PRO = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

†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 / 12 or Full RR Stacked / 10.

Table 28. Characteristics, as described by the seed company, of corn hybrids evaluated in yield tests in Tennessee during 2010.†

Early-Season Corn Hybrid Entries		Grain		Herbicide		Released or	Seed	Comments from Companies
Brand	Hybrid	Color	Maturity	Tolerance	BT Gene	Experimental	Treatment	
Agrigold	A6452VT3	Y	110	RR	YGCB/RW	R	Vortex, Allegiance, Trilex, Poncho250	---
Agrigold	A6458VT3	Y	110	RR	YGCB/RW	R	Vortex, Allegiance, Trilex, Poncho250	---
Agrigold	A6476VT3	Y	111	RR	YGCB/RW	R	Vortex, Allegiance, Trilex, Poncho250	---
Agrigold	A6489VT3	Y	112	RR2	YGCB/RW	R	Vortex, Allegiance, Trilex, Poncho250	---
Agrigold	A6533VT3	Y	113	RR2	YGCB/RW	R	Vortex, Allegiance, Trilex, Poncho250	---
Agrigold	A6553VT3	Y	113	RR	YGCB/RW	R	Vortex, Allegiance, Trilex, Poncho250	---
AgVenture	RL8042HBW (RR/LL/HX)	Y	111	RR/LL	HXX	R	Dynasty, Cruiser 250	---
Augusta	A0606CBLL	Y	111	LL	Bt	R	Cruiser 250	High test weight
Augusta	A5175CB	Y	107	---	CB	R	Cruiser 250	Highly adapted early hybrid, very healthy
Augusta	A5337EVT3	Y	111	RR	CB/RW	R	Cruiser 250	---
Augusta	A5460GT3	Y	110	GT/LL	CB/RW	R	Cruiser 250	---
Augusta	A5462GT3	Y	112	GT/LL	CB/RW	R	Cruiser 250	---
Augusta	A5461GTCBLL	Y	111	GT/LL	CB	R	Cruiser 250	---
Beck's	5716A3 (RR/LL/CB/RW)	Y	111	RR/LL	CB/RW	R	Escalate	---
Beck's	6288A3 (RR/LL/CB/RW)	Y	113	RR/LL	CB/RW	R	Escalate	---
Beck's XL Brand	6464HR (RR/Hx1)	Y	113	RR/LL	HX1	E	Escalate	---
Armor	1161PRO	Y	111	RR2	YG,CB,C,RW	R	Accelaron	---
Armor	1363PRO	Y	113	RR2	YG,CB,C,RW	R	Accelaron	---
Armor	BX909PRO	Y	109	RR2	YG,CB,C,RW	E	Accelaron	---
Armor	BXC062PRO	Y	112	RR2	YG,CB,C,RW	E	Accelaron	---
Croplan	6286VT3P	Y	113	RR	YG,CB,C,RW	R	Cruiser Complete	---
Croplan	6725VT3	Y	113	RR	YGCB/RW	R	Cruiser Complete	---
Croplan	6831RHXT (RR/LL/CB/RW)	Y	112	RR/LL	YGCB/RW	R	Cruiser Complete	---
Dairyland	6310 (RR)	Y	109	RR	---	R	Cruiser Extreme 250	---
Dairyland	7313 (RR/CB)	Y	113	RR	YGCB	R	Cruiser Extreme 250	---
Dairyland	9213Q (RR)	Y	113	RR	---	R	Cruiser Extreme 250	---
Dairyland	9910 (RR/CB/RW)	Y	110	RR	YGCB/RW	R	Cruiser Extreme 250	---
DeKalb	DKC61-05 (VT3P)	Y	111	RR	YG,CB,C,RW	R	Accelaron 250	---
DeKalb	DKC61-35 (VT3P)	Y	111	RR	YG,CB,C,RW	R	Accelaron 250	---
DeKalb	DKC62-63 (VT3P)	Y	112	RR	YG,CB,C,RW	R	Accelaron 250	---
DeKalb	DKC62-97 (VT3P)	Y	112	RR	YG,CB,C,RW	R	Accelaron 250	---
DeKalb	DKC63-14 (VT3)	Y	113	RR	YGCB/RW	R	Poncho 250	---
DeKalb	DKC63-84 (VT3)	Y	113	RR	YGCB/RW	R	Poncho 250	---
Dyna-Gro	57V40 (VT3)	Y	111	RR	YGCB/RW	R	Trilex, Allegiance, Poncho 250	---
Dyna-Gro	V5373VT3	Y	113	RR	CB/RW	R	Trilex, Allegiance, Poncho 250	High yield, stress tolerant
Great Lakes	6354G3VT3	Y	113	RR	YGCB/RW	R	Poncho 250	---
NK Brand	N68B-3000GT	Y	110	RR/LL	YGCB/RW	R	Cruiser Extreme 250	Stress tolerant, responsive to high yield environments
NK Brand	N72Q-3000GT	Y	112	RR/LL	YGCB/RW	R	Cruiser Extreme 250	Best in high yield environments
Wyffels	W6871 (VT3)	Y	110	RR2	YGCB/RW	R	Dynasty, Poncho 250	New high yielding genetics
Wyffels	W7071 (VT3)	Y	111	RR2	YGCB/RW	R	Dynasty, Poncho 250	---

Table 28 (continued)

Medium-Season Corn Hybrid Entries		Grain		Herbicide		Released or	Seed	Comments from Companies
Brand	Hybrid	Color	Maturity	Tolerance	BT Gene	Experimental	Treatment	
Agrigold	A6632VT3Pro	Y	115	RR	VT3Pro	R	Vortex, Allegiance, Trilex, Poncho250	---
Agrigold	A6633VT3	Y	115	RR2	YGCB/RW	R	Maxim XL, Apron, Trilex, Poncho250	---
Agrigold	A6677	Y	116	---	---	R	Maxim XL, Apron, Trilex, Poncho250	---
Augusta	A6166GTCBLL	Y	115	LL	HX	R	Poncho 250	---
Augusta	A5338CB	Y	116	---	CB	R	Poncho 250	High yield environments, highly digestible silage
Augusta	A6164GT3	Y	114	GT/LL	CB/RW	R	Cruiser 250	---
Augusta	A6166CBLL	Y	114	LL	CB	R	Cruiser 250	---
Augusta	A6365GT	Y	115	GT	---	R	Cruiser 250	---
Augusta	A7364GTCBLL	Y	114	GT/LL	CB/RW	R	Poncho 250	White cob, stress tolerant, high yield, low to high poplins.
Augusta	A7664CB	Y	114	---	CB	R	Poncho 250	Medium size, low ear, high yields
Beck's XL Brand	6733HXR	Y	114	RR/LL	HXT	R	Escalate	---
Beck's XL Brand	6903HR	Y	115	RR/LL	HX1	E	Escalate	---
Armor	1457VT3	Y	114	RR2	YGCB/RW	R	Cruiser Extreme 250	---
Armor	1511C	Y	115	---	---	R	Cruiser Extreme 250	---
Armor	1545PRO	Y	115	RR2	YG, CB, C, RW	R	Accelaron	---
Armor	1655PRO	Y	116	RR2	YG, CB, C, RW	R	Accelaron	---
Armor	BX915PRO	Y	115	RR2	YG, CB, C, RW	E	Accelaron	---
Armor	BXC028VT3	Y	116	RR2	YG, CB, RW	E	Cruiser Extreme 250	---
Armor	BXC039PRO	Y	116	RR2	YG, CB, C, RW	E	Accelaron	---
Armor	BXT069GT	Y	116	RR2	---	E	Cruiser Extreme 250	---
Croplan	6926VT3	Y	114	RR	YG, CB, C, RW	R	Cruiser Complete	---
Croplan	7131VT3	Y	115	RR	YGCB/RW	R	Cruiser Complete	High yield
Croplan	7505VT3	Y	115	RR	YGCB/RW	R	Cruiser Complete	Great disease tolerance, responds to high population
Dairyland	7615 (RR2/YGCB)	Y	115	RR	YGCB	R	Cruiser Extreme 250	---
Dairyland	9214Q (RR/LL/CB/RW)	Y	114	RR/LL	YGCB/RW	R	Cruiser Extreme 250	---
Dairyland	9414Q (RR/LL/CB/RW)	Y	115	RR/LL	YGCB/RW	R	Cruiser Extreme 250	---
DeKalb	DKC64-69 (VT3P)	Y	114	RR	YG, CB, C, RW	R	Accelaron 250	---
DeKalb	DKC65-63 (VT3)	Y	115	RR	YGCB/RW	R	Poncho 250	---
DeKalb	DKC66-96 (VT3P)	Y	116	RR	YG, CB, C, RW	R	Accelaron 250	---
Dyna-Gro	57V21 (VT3)	Y	115	RR	YGCB/RW	R	Trilex, Allegiance, Poncho 250	Disease resistance, high fertility soils, irrigation
Dyna-Gro	57V59 (VT3)	Y	114	RR	YGCB/RW	R	Trilex, Allegiance, Poncho 250	---
Dyna-Gro	D55Q80 (GT/LL/CB)	Y	115	GT/LL	YGCB	E	---	---
Dyna-Gro	V5683VT3	Y	116	RR	YGCB/RW	R	Trilex, Allegiance, Poncho 250	---
Exsegen	ES518	Y	115	---	---	---	Poncho 250	---
Great Lakes	6455G3VT3	Y	114	RR	YGCB/RW	R	Poncho 250	---
Great Lakes	6576G3VT3	Y	115	RR	YGCB/RW	R	Poncho 250	---
Merschman	M-816A-10 (VT3)	Y	116	RR	YGCB/RW	R	Captan, Allegiance, Trilex, Poncho 500	---
NK Brand	N77P-3000GT	Y	114	RR	YGCB/RW	R	Cruiser Extreme 250	Well suited to marginal soils
NK Brand	N78N-3000GT	Y	115	RR/LL	YGCB/RW	R	Cruiser Extreme 250	Best suited to irrigated, high yield environments
NK Brand	N78S-CB/LL	Y	116	LL	CB	R	Cruiser Extreme 250	---
eMerge	SX849	Y	115	---	---	---	Maxim XL, Apron, Dynasty, Poncho250	---
Steyer	1156	Y	115	---	---	R	---	High yielding, excellent grain quality
Steyer	1147GTCBLL	Y	114	GT/LL	Bt11	R	---	Exceptional plant health & stress tolerance
Terral-REV Brand	25HR39 (RR/LL/HX)	Y	115	RR/LL	HX1	R	Poncho 250	---
Terral-REV Brand	25HR49 (RR/LL/HX)	Y	115	RR/LL	HX1	R	Poncho 250	---
Terral-REV Brand	25R19 (RR)	Y	115	RR	---	R	Poncho 250	---
Terral-REV Brand	25R29 (RR)	Y	115	RR	---	R	Poncho 250	---
Terral-REV Brand	26HR50 (RR/LL/HX)	Y	116	RR/LL	HX1	E	Poncho 250	---
Terral-REV Brand	26HR70 (RR/LL/HX)	Y	116	RR/LL	HX1	R	Poncho 250	---
Terral-REV Brand	26R60 (RR)	Y	116	RR	---	R	Poncho 250	---

Table 28 (continued)

Wyffels	W8430 (RR)	Y	114	RR2	---	R	Dynasty, Poncho 250	---
Wyffels	W8681 (VT3)	Y	115	RR2	YGCB/RW	R	Dynasty, Poncho 250	Reliable top end yield, excellent plant health

Full-Season Corn Hybrid Entries		Grain		Herbicide		Released or	Seed	Comments from Companies
Brand	Hybrid	Color	Maturity	Tolerance	BT Gene	Experimental	Treatment	
Agrigold	A6839	Y	119	---	---	R	Vortex, Allegiance, Trilex, Poncho250	---
Augusta	A008VT3	Y	117	RR	CB/RW	R	Cruiser 250	Workhorse and racehorse
Augusta	A6267GTCBLL	Y	117	GT/LL	CB	R	Cruiser 250	---
Augusta	A6867CBLL	Y	117	LL	CB	R	Cruiser 1250	---
Augusta	A9169VT3	Y	119	RR	CB/RW	R	Poncho 250	Southern adaptation
Beck's XL Brand	7988RR	Y	117	RR	---	E	Escalate	---
Armor	BXG080GT	Y	117	RR2	---	E	Cruiser Extreme 250	---
Croplan	8221VT3	Y	118	RR	YGCB/RW	R	Cruiser Complete	---
Croplan	8505VT3P	Y	117	RR	YG,CB,C,RW	R	Cruiser Complete	---
Croplan	851VT3P	Y	118	RR	YG,CB,C,RW	R	Cruiser Complete	---
DeKalb	DKC67-21 (VT3P)	Y	117	RR	YG,CB,C,RW	R	Acceleron 250	---
Dyna-Gro	D57GT60 (GT)	Y	117	GT	---	E	---	---
Terral-REV Brand	28HR20 (RR/LL/HX)	Y	118	RR/LL	HX1	R	Poncho 250	---
Terral-REV Brand	28HR29 (RR/LL/HX)	Y	118	RR/LL	HX1	R	Poncho 250	---
Terral-REV Brand	28R10 (RR)	Y	118	RR	---	R	Poncho 250	---
TN Exp	TN 0506 (W)	W	120	---	---	E	Dividend XL, Cruiser 250	---
TN Exp	TN 0702 (W)	W	120	---	---	E	Dividend XL, Cruiser 250	---
TN Exp	TN 0902	Y	120	---	---	E	Dividend XL, Cruiser 250	---

VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance

VT3P = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

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

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

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

W = white grain CL = contains a gene for tolerance to Imidazolinone class herbicides

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

Table 29. Contact information for corn hybrid seed companies evaluated in yield tests in Tennessee during 2010

Company	Contact	Phone	Email	Web site	Address
Agrigold Hybrids	Lee Herring Drew Snider	270-399-5558 270-776-1486		www.agrigold.com	RR#1 Box 203, St. Francisville, IL 62460
AgVenture	Mike Davis	219-474-3339	mdavis@agventuredm.com	www.agventure.com	207 North Seventh Street, P.O. Box 29 Kentland, IN 47951
Augusta Seed Corporation	Dennis Rawley Matt Rawley	540-886-6055 540-255-5902	augustaseed@aol.com		473 Tisdale Farm Ln, Stuarton, VA 24401
Beck's Superior Hybrids (Beck's & XL Brand)		800-937-2325		www.beckshybrids.com	6767 East 276th Street, Atlanta, IN 46031
Armor (formerly Belle)	Lane Dill Jimmy Wray	901-233-0274 270-832-3843	lanedill@cullumseeds.com jimmywray@jwrayseeds.com	www.bellecorn.com www.jwrayseeds.com	P.O. Box 178, Fisher, AR 72429 6497 Turner Landing Rd., LaCenter, KY 42056
Croplan Genetics	Jesse Witt Keith Saum Jim Payne Ashley Plymale Matt Sowder Darrin Holder	256-221-5932 731-610-7006 901-652-0903 270-719-1570 901-355-7267 270-207-0190	kdsaum@landolakes.com jpayne@ourcoop.com	www.croplangenetics.com	Consolidated Ag Products (Agrilience) and Tennessee Farmers Co-op Locations
Dairyland Seed Co	Lanny Warren	731-234-2921	lanny.warren@charter.net	www.dairylandseed.com www.monsanto.com www.dekalb.com	208 South Thompson St., Union City, TN 38261 800 N. Lindberg Blvd, St. Louis, MO 63167
Monsanto (Dekalb)		800-335-2676		www.dynagroseed.com	710 South First Street, Union City, TN 38261
Crop Production Services (Dyna-Gro)	Steve Johnson	731-885-1212 731-446-0094	steve.johnson@cpsagu.com	www.dynagroseed.com	710 South First Street, Union City, TN 38261
Great Lakes Hybrids	Phil Brunner	800-257-7333	phil.brunner@greatlakeshybrids.com	www.greatlakeshybrids.com	9915 W. M-21 Hwy, Ovid, MI 48866
Merschman Seeds	Skip Long	319-837-6111	skip@merschmanseeds.com	www.merschmanseeds.com	103 Ave D, West Point, IA 52656
Syngenta (NK Brand)	Chet Chaney	501-628-1867	chet.chaney@syngenta.com	www.nk-us.com	7500 Olson Memorial Hwy Golden Valley, MN 55427
Schillinger Seeds	Wayne Hoener	515-314-1003	whoener@schillgen.com	www.schillgen.com	4401 Westown Parkway, Suite 225 West Des Moines, IA 50266
Steyer Seeds	Joe Steyer Tom Jones Phil Coffman	800-231-4274 270-213-0020 270-832-7362	joesteyer@yahoo.com steyerseeds@steyerseeds.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 (Rev Brand)	Larry Mullen	318-559-2840	lmullen@terralseed.com	www.terralseed.com	P O Box 826, Lake Providence, LA 71254
Miles Seed (Wyffels & Exsegen Brands)	Scott Janes	888-786-4537	scojan@milesnmore.com	www.wyffels.com	Miles Farm Supply, P.O. Box 22879 Owensboro, KY 42304