Corn Grain Hybrid Tests in Tennessee

2012

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

http://varietytrials.tennessee.edu/
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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
David Kincer, Research Associate
Virginia Sykes, Graduate Research Assistant
Effion Hughes, Graduate Research Assistant
Matthew Bobbitt, Graduate Research Assistant
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Research and Education Centers:

East Tennessee, Knoxville
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Highland Rim, Springfield
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Ames Plantation, Grand Junction
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County Standard Corn Tests

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County	Producer	Agent
Early Season Corn Hybrid Test (RR and Stacked)		
Blount	Mac Pate & Scott Blair	John Wilson
Calloway, KY	Murdock & Sons	Todd Powell/Tim Lax
Carlisle, KY	Brad Reddick	Bob Middleton
Carroll	Steve Coleman	Steve Burgess
Coffee	L.A. Teal & Mike England	Steve Harris
Dyer	Carl & Marvin Schultz	Tim Campbell
Fayette	Joseph McNabb	Jeff Via
Franklin/Grundy	George, Eddie & Eric Clay	Ed Burns/Creig Kimbro
Fulton, KY	Johnson Linder	Cam Kenimer/Ben Mullins
Gibson	Denton Clay Parkins	Philip Shelby
Giles	Pat Sulcer	Kevin Rose
Henderson	Billy Hatchet	Ron Blair
Henry	Caleb Brannon Farms	Ranson Goodman
Lake	Terry Petty	Greg Allen
Lauderdale	Mike Escue	J.C. Dupree
Madison	Chris Street	Jake Mallard
Montgomery	Steve Joiner/Michael Suiter	Rusty Evans
Obion	David & Scott Wisener	Tim Smith
Weakley	Bob Grooms	Jeff Lannom
Weakley	David Oliver	Jeff Lannom
Medium Season Corn Hybrid Test (RR & Stacked)		
Calloway, KY	Murdock & Sons	Todd Powell/Tim Lax
Cannon	Johnny & Judy Powell	Bruce Steelman
Carlisle, KY	Curtsinger Farms	Bob Middleton
Coffee	L.A. Teal & Mike England	Steve Harris
Crockett	Steve & Drew Bailey	Richard Buntin
Decatur	Stacy Vise	Amanda Mathenia
Dyer	Carl & Marvin Schultz	Tim Campbell
Fayette	Lee Graves	Jeff Via
Franklin/Grundy	George, Eddie & Eric Clay	Ed Burns/Creig Kimbro
Fulton, KY	Johnson Linder	Cam Kenimer/Ben Mullins
Gibson	Denton Clay Parkins	Philip Shelby
Giles	J Tucker	Kevin Rose
Hardin	David Duren	Brian White
Henderson	Billy Hatchett	Ron Blair
Henry	Caleb Brannon Farms	Ranson Goodman
Hickman	Andy & Brad Porter	Troy Dugger
Humphreys	Lee Uptain	Jerri Lynn Sims
Lake	Terry Petty	Greg Allen
Lauderdale	Mike Escue	J. C. Dupree
Loudon	David Richesin	John Goddard
Madison	Matt Griggs	Jake Mallard
Obion	Elwin Tanner	Tim Smith

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

County Standard Corn Tests

County	Producer	Agent
Robertson	Freddie Edwards	Paul Hart
Shelby	Jerry Tolbert	Becky Muller
Weakley	Luke Cochran	Jeff Lannom

Full Season Corn Hybrid Test (RR & Stacked)

Calloway, KY	Murdock & Sons	Todd Powell/Tim Lax
Cannon	Johnny & Judy Powell	Bruce Steelman
Coffee	L.A. Teal & Mike England	Steve Harris
Decatur	Stacy Vise	Amanda Mathenia
Dyer	Carl & Marvin Schultz	Tim Campbell
Fayette	Lee Graves	Jeff Via
Franklin/Grundy	George, Eddie & Eric Clay	Ed Burns/Creig Kimbro
Fulton, KY	Johnson Linder	Cam Kenimer/Ben Mullins
Gibson	Denton Clay Parkins	Philip Shelby
Henderson	Billy Hatchet	Ron Blair
Lake	Hopper Farms	Greg Allen
Lauderdale	Mike Escue	J. C. Dupree
Loudon	David Richesin	John Goddard
Obion	Elwin Tanner	Tim Smith
Robertson	Samuel & Will Osborne	Paul Hart
Shelby	Jerry Tolbert	Becky Muller
Weakley	David Scarbrough	Jeff Lannom

Table of Contents

Experimental Procedures 6
Interpretation of Data 7
Results 7
Research & Education Center Information 9

Research & Education Center Tests
Early-season Hybrids 10
Medium-season Hybrids 19
Full-season Hybrids 28

County Standard Tests
Early-season RR Stacked Hybrids 33
Medium-season RR Stacked Hybrids 34
Full-season RR Stacked Hybrids 35

Common Hybrids in County Standard and Research and Education Center Tests
Early-season Hybrids 36
Medium-season Hybrids 37
Full-season Hybrids 38

Corn Hybrid Characteristics 39

Seed Company Contact Information 42

CORN GRAIN VARIETY TESTS IN TENNESSEE

RESEARCH AND EDUCATION CENTER TESTS

2012

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)**. The Early and Medium-season tests were also planted at the Agricenter International Research Center (Memphis). **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.**

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. Population goals of 32,000 plants per acre for irrigated plots and 30,000 plants per acre for non-irrigated plots were attempted at all locations. 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. Four early-season and five full-season corn hybrids at the Ames REC were severely damaged due to carryover of Zorial® herbicide applied to cotton in the 2010 season. The yield data for these hybrids were removed from the analysis and best linear unbiased estimates were used to calculate the overall average for the affected hybrids (Tables 2 and 16).

County Standard Tests: The County Standard Corn Tests were conducted in 23 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 glyphosate resistant and Bt stacked trait tests** (same DAP criteria as listed above; some entries were stacked with Bt resistance genes). 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 2012 growing season was characterized by a warmer that usual spring followed by hot, dry drought conditions which persisted through most of the critical growth stages for corn. This was particularly true during the months of June and July when daily temperatures above 100 were common. The early warm spring allowed record setting early planting progress nearly three weeks ahead of the normal pace. Field conditions were predominately hotter and drier than normal with few fields receiving limited to moderate rainfall through July. Widespread precipitation received in mid-July was too late to be of much benefit to most of the state's corn crop. The crop was rated at 54 percent poor to very poor in mid-August when harvesting began as the crop matured earlier than usual due to the heat and drought. Harvesting was

somewhat slowed by rains in late August and September; however most of the crop was harvested by late September, nearly three weeks ahead of normal. According to the Tennessee Agricultural Statistics Service, producers planted 1.03 million acres this year, an increase of 240,000 from 2011. Acreage harvested for grain is projected to be 970,000, up 235,000 acres from last season and a 50 year high. Corn grain production for 2012 is projected to be 86.3 million bushels, a decrease of 10 percent from the previous year. The state corn grain yield average is projected to be the lowest in nearly 20 years at 89 bu/a, 42 bushels below the 2011 yield.

Interpretation of Data:

The tables on the following pages have been prepared with the entries listed in order of overall average performance across locations, 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 nine corn hybrids were evaluated in the 2012 **Research and Education Center (REC)** tests in Tennessee. There were 50 hybrids in the early- (Tables 2-8), 38 in the medium- (Tables 9-15), and 21 hybrids in the full-season (Tables 16-22). The 109 hybrids represent 20 different brands (Tables 29-30). The **County Standard (CS)** tests consisted of a early-season glyphosate resistant and Bt stacked trait test (23 hybrids at 17 locations, Table 23), a medium-season glyphosate resistant and Bt stacked trait test (21 hybrids at 22 locations, Table 24), and a full-season glyphosate resistant ant Bt stacked trait test (10 hybrids at 16 locations, Table 25) for a total of 54 hybrids. In addition to Tennessee counties, the County Standard tests involved Calloway, Carlisle, and Fulton counties in Western Kentucky. Common to both the REC and CS tests were 20 early-season, 17 medium-season, and five full-season hybrids (Tables 26-28). Similar to the REC tests, in the CS tests all hybrids were placed in the maturity test for which they fit regardless of other traits associated with each entry.

One hundred of the 109 hybrids in the 2012 REC tests have a Bt gene for Corn Borer resistance (denoted by Bt, YG, CB, YGCB, HX, VT2, VT3); 64 have a gene for Corn Root Worm resistance (denoted by RW, VT3); 102 have a Roundup Ready gene for tolerance to glyphosate herbicide (denoted by R, RR, RR2,GT); 42 have a gene for tolerance to Liberty (glufosinate) herbicide (denoted by LL); six hybrids are conventional and contain no transgenes; 3 hybrids contain a single transgene; 100 are stacked with combinations of RR, Bt, RW, LL. **VT2P**, **VT2Pro** or **PRO2** designation denotes resistance to glyphosate, corn borer, earworm and armyworm. **VT3P**, **VT3Pro** or **PRO3** designation denotes resistance to glyphosate, corn borer, rootworm, earworm and armyworm. **VIP** or **Viptera** designation denotes resistance to corn earworm, black

cutworm, western bean cutworm, dingy cutworm and stalk borers. Six hybrids were designated **RIB** (refuge in bag) which denotes seed corn which contains five percent non-Bt corn in order to conform to insect refuge regulations (Table 29).

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 severely limited rainfall and very high temperatures during critical stages of the growing season, the average differences in yields across hybrids receiving irrigation versus non-irrigation at Milan were exceedingly high: 168 bu/a for early-season hybrids (Tables 2 and 4), 196 bu/a for medium-season hybrids (Tables 9 and 11), and 176 bu/a for full-season hybrids (Tables 16 and 18). Similarly at Highland Rim irrigated plot averages were higher than non-irrigated by 54 bu/a for early-season hybrids (Table 4), 98 bu/a for medium-season hybrids (Table 11), and 120 bu/a for full-season hybrids (Table 18).

Extremely low yields due to drought conditions were observed in the non-irrigated tests at the Milan and Highland Rim locations. Lower than expected yields and large amounts of variation were also observed in the Highland Rim irrigated tests. **Results from tests with such low yields and high variances due to severe drought are not considered of value in ranking or choosing better yielding hybrids for a typical season. However, there were major differences among hybrids in how they responded to the dry, hot conditions and reflect the reality of yields that many farmers faced in 2012. It was therefore decided to exclude these lower yielding tests at Milan and Highland Rim from the overall analysis found in Tables 2, 9 and 16. The analyses of these three lower yielding tests have been placed in separate tables (4, 11, and 18). These additional tables contain data on cob length and grain fill taken at the Milan non-irrigated location on five random ears from the middle of each plot. The cob length and grain fill data were very indicative of the yield level of the associated hybrids.**

Table 1. Location information from Research and Education Centers where the corn hybrid tests were conducted in Tennessee in 2012.

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Early Season Corn Hybrids					
East Tennessee	Knoxville	April 17, 2012	September 14, 2012	33,396	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 16, 2012	September 10, 2012	34,558	Mountview Silt Loam
" " (non-irrigated)	”	April 18, 2012	September 19, 2012	31,073	Mountview Silt Loam
Milan (irrigated)	Milan	April 20, 2012	September 12, 2012	31,363	Loring Silt Loam
“ (non-irrigated)	“	April 19, 2012	September 11, 2012	29,621	Grenada Silt Loam
Ames Plantation	Grand Junction	May 1, 2012	September 20, 2012	29,911	Lexington Silt Loam
Agricenter International	Memphis	April 23, 2012	August 28, 2012	29,911	Falaya Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Medium Season Corn Hybrids					
East Tennessee	Knoxville	April 17, 2012	September 20, 2012	33,396	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 16, 2012	September 12, 2012	34,558	Mountview Silt Loam
" " (non-irrigated)	”	April 18, 2012	September 19, 2012	29,330	Mountview Silt Loam
Milan (irrigated)	Milan	April 20, 2012	September 12, 2012	31,363	Loring Silt Loam
“ (non-irrigated)	“	April 19, 2012	September 11, 2012	29,040	Grenada Silt Loam
Ames Plantation	Grand Junction	May 1, 2012	September 21, 2012	29,911	Lexington Silt Loam
Agricenter International	Memphis	April 23, 2012	August 28, 2012	29,621	Falaya Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Full Season Corn Hybrids					
East Tennessee	Knoxville	April 17, 2012	September 14, 2012	33,396	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 16, 2012	September 12, 2012	33,396	Mountview Silt Loam
" " (non-irrigated)	”	April 19, 2012	September 19, 2012	27,007	Mountview Silt Loam
Milan (irrigated)	Milan	April 20, 2012	September 26, 2012	30,492	Loring Silt Loam
“ (non-irrigated)	“	April 19, 2012	September 12, 2012	28,169	Grenada Silt Loam
Ames Plantation	Grand Junction	May 1, 2012	September 21, 2012	29,911	Lexington Silt Loam

Table 2. Mean yields of 50 early-season (<114 DAP) corn hybrids evaluated in four environments in Tennessee during 2012.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=4)	Knoxville	Milan (Irr.)	Ames	AgCenter Memphis
		---------- bu/a				----------
Warren / Dairyland	9111SSX (RR/LL/CB/RW)	170 ± 5	193	209	151	129
Mycogen	2V715 (RR/LL/CB/RW)	163 ± 5	202	197	114	138
Great Lakes	6354G3VT3	163 ± 5	175	201	143	132
Beck's	Phoenix Brand 6442A4 (RR/LL/CB/RW/BL)	162 ± 5	189	236	108	116
Warren / Dairyland	9212Q (RR/LL/CB/RW)	161 ± 5	187	208	139	111
DeKalb	DKC63-87 GENVT2P	161 ± 5	174	220	123	127
Armor	1111PRO3	160 ± 5	173	224	120	122
Croplan	6640VT3P	158 ± 6	204	204	105	121
Augusta	A5658GTCBLL	157 ± 5	172	213	109	135
Dyna-Gro	D52VC91 (VT3P)	156 ± 5	165	212	107	140
NK Brand	N72Q-3111 (GT/LL/CB/RW/VIP)	156 ± 5	174	230	97	122
Great Lakes	6232VT3Pro	155 ± 5	177	209	106	129
Armor	1133PRO3	155 ± 5	167	210	111	132
Augusta	A5363VT3Pro	155 ± 5	173	208	118	121
Agrigold	A6533VT2RIB	154 ± 5	167	195	109	147
Agrigold	A6489VT3	154 ± 5	177	232	94	114
Dyna-Gro	D51VP32 (VT3P)	154 ± 5	170	213	104	128
DeKalb	DKC62-09 GENVT3P	154 ± 5	146	231	86	151
Warren / Dairyland	1013	153 ± 5 #	179	207	.	115
Augusta	A5262GT3000	153 ± 6	158	194	117	142
LG Seeds	LG 2555VT3	151 ± 5	173	185	126	121
Steyer	11302 VT3Pro	151 ± 5	174	174	135	122
Warren / Dairyland	9610 (RR/LL/CB/RW)	151 ± 5	164	189	123	127
Agrigold	A6553VT2RIB	151 ± 5	163	197	109	134
Augusta	A5362VT3Pro	151 ± 5	170	194	129	109
Augusta	A5560VT3Pro	150 ± 5	125	215	124	135
NK Brand	N68B-3111 (GT/LL/CB/RW/VIP)	149 ± 5	151	216	92	136
Terral-REV Brand	21HR33 (RR/LL/HX1)	148 ± 5	147	223	98	125
Agrigold	A6517VT3Pro	148 ± 5	149	226	110	106
Dyna-Gro	D52VP20 (VT3P)	147 ± 5	143	224	86	136
Steyer	11204 VT3Pro	147 ± 5	152	226	92	120
Terral-REV Brand	23RE73 (RR/LL/HXX)	147 ± 5	170	200	100	118
DeKalb	DKC61-88 GENVT3P	147 ± 5	170	192	98	128
Beck's	6272HR (RR/LL/CB)	147 ± 5	146	204	117	120
Augusta	A0720CBLL	147 ± 5 #	144	196	.	138
Caverndale Farms	CF 803 3000GT (LL/Bt/RW)	145 ± 5	157	199	99	126
Croplan	6160VT3P	145 ± 5	148	200	104	129

Table 2 (continued)

Brand	Hybrid §	Avg. Yield† ± Std Err (n=4)	Knoxville	Milan (Irr.)	Ames	AgCenter Memphis
		---------- bu/a----------				
Agrigold	A6486VT2RIB	145 ± 5	158	196	100	125
Armor	1262PRO2	145 ± 5	148	209	85	136
Agrigold	A6476VT3Pro	145 ± 5	147	189	92	150
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	144 ± 5	135	199	114	129
Armor	1010PRO2	143 ± 5	153	204	103	112
Beck's	6175AMX (RR/LL/CB/RW)	142 ± 5	127	199	113	128
Augusta	A0606GTCBLL	141 ± 5	163	188	86	129
Augusta	A5461GTCBLL	140 ± 5	159	156	110	135
Delta Grow	2688 GTCBLL	139 ± 5 #	146	189	.	114
LG Seeds	LG 2602VT3Pro	138 ± 5	148	188	87	129
Armor	1161PRO2	133 ± 5	121	213	94	102
Caverndale Farms	CF 748 3000GT (LL/Bt/RW)	128 ± 5	89	191	118	116
Warren / Dairyland	1809	112 ± 5 #	63	162	.	124
	Avg. (bu/a)	**151**	**158**	**205**	**108**	**127**
	L.S.D.$_{.05}$ (bu/a)	**13**	**30**	**28**	**24**	**23**
	C.V. (%)	**10.7**	**11.6**	**8.5**	**12.7**	**10.9**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Average calculated using best linear unbiased estimates from Ames location. These four hybrids were severely damaged by Zorial® herbicide carryover applied in the 2010 growing season.

Table 3. Overall mean yields and agronomic characteristics of 50 early-season corn hybrids evaluated in four environments in Tennessee during 2012.

Brand	Hybrid §	Avg. Yield† ± Std Error (n=4)	Moisture at Harvest (n=4)	Test Weight‡ (n=1)	Lodging (n=1)	Plant Height‡ (n=1)	Ear Height‡ (n=1)	Protein‡ (n=1)	Oil‡ (n=1)	Starch‡ (n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Warren / Dairyland	9111SSX (RR/LL/CB/RW)	170 ± 5	15.2	57.7	6	89	40	9.2	4.4	72.8
Mycogen	2V715 (RR/LL/CB/RW)	163 ± 5	14.7	57.1	10	93	44	9.8	4.3	72.9
Great Lakes	6354G3VT3	163 ± 5	15.6	58.9	3	89	34	9.0	4.8	72.5
Beck's	Phoenix Brand 6442A4 (RR/LL/CB/RW/BL)	162 ± 5	16.1	57.6	1	90	35	8.7	4.1	74.0
Warren / Dairyland	9212Q (RR/LL/CB/RW)	161 ± 5	14.6	56.5	10	95	46	9.8	4.4	72.6
DeKalb	DKC63-87 GENVT2P	161 ± 5	15.4	59.3	1	90	37	9.9	4.4	72.7
Armor	1111PRO3	160 ± 5	15.5	60.7	0	90	33	9.0	4.3	73.3
Croplan	6640VT3P	158 ± 6	16.0	60.8	1	86	35	9.9	5.1	71.9
Augusta	A5658GTCBLL	157 ± 5	14.8	60.1	0	88	37	10.0	4.8	72.0
Dyna-Gro	D52VC91 (VT3P)	156 ± 5	15.7	61.5	0	88	35	9.5	4.8	72.8
NK Brand	N72Q-3111 (GT/LL/CB/RW/VIP)	156 ± 5	15.6	57.4	2	90	37	8.9	4.3	73.5
Great Lakes	6232VT3Pro	155 ± 5	16.0	58.2	4	86	28	9.3	4.5	72.9
Armor	1133PRO3	155 ± 5	15.3	60.4	2	87	30	9.2	4.7	72.3
Augusta	A5363VT3Pro	155 ± 5	14.9	58.6	1	88	39	9.7	4.3	72.5
Agrigold	A6533VT2RIB	154 ± 5	15.2	59.9	1	89	33	9.9	4.4	72.5
Agrigold	A6489VT3	154 ± 5	15.6	60.0	2	88	42	10.0	4.6	72.2
Dyna-Gro	D51VP32 (VT3P)	154 ± 5	15.5	60.3	1	93	34	9.2	4.3	73.3
DeKalb	DKC62-09 GENVT3P	154 ± 5	15.4	60.4	3	83	34	8.9	4.5	73.2
Warren / Dairyland	1013	153 ± 5 #	15.4	56.6	1	95	41	9.4	4.7	72.9
Augusta	A5262GT3000	153 ± 6	15.3	58.7	2	91	35	10.0	4.0	73.3
LG Seeds	LG 2555VT3	151 ± 5	15.3	58.6	1	83	30	9.4	4.4	72.8
Steyer	11302 VT3Pro	151 ± 5	15.4	58.3	1	91	37	9.3	4.1	73.2
Warren / Dairyland	9610 (RR/LL/CB/RW)	151 ± 5	14.8	59.2	0	87	39	10.0	4.7	71.9
Agrigold	A6553VT2RIB	151 ± 5	15.9	60.2	1	93	33	10.0	4.4	72.8
Augusta	A5362VT3Pro	151 ± 5	15.8	61.4	0	92	36	9.2	4.9	72.8
Augusta	A5560VT3Pro	150 ± 5	15.4	59.6	1	92	28	9.7	4.1	73.4
NK Brand	N68B-3111 (GT/LL/CB/RW/VIP)	149 ± 5	15.7	56.6	0	85	33	8.9	4.5	73.0
Terral-REV Brand	21HR33 (RR/LL/HX1)	148 ± 5	15.4	60.2	1	96	39	9.5	4.3	72.8
Agrigold	A6517VT3Pro	148 ± 5	15.7	58.5	3	84	31	9.9	4.4	72.6
Dyna-Gro	D52VP20 (VT3P)	147 ± 5	15.9	59.5	4	88	34	9.5	4.5	73.0
Steyer	11204 VT3Pro	147 ± 5	15.8	60.0	5	92	36	9.2	4.4	72.9
Terral-REV Brand	23RE73 (RR/LL/HXX)	147 ± 5	15.4	61.8	2	97	40	10.0	4.1	73.3
DeKalb	DKC61-88 GENVT3P	147 ± 5	15.1	58.9	0	90	39	9.9	4.6	72.5
Beck's	6272HR (RR/LL/CB)	147 ± 5	15.4	61.8	3	93	39	9.7	4.1	73.7
Augusta	A0720CBLL	147 ± 5 #	14.2	60.3	6	95	40	10.0	4.1	73.1
Caverndale Farms	CF 803 3000GT (LL/Bt/RW)	145 ± 5	14.8	60.0	0	87	39	11.0	4.6	72.4
Croplan	6160VT3P	145 ± 5	15.8	60.5	0	89	38	9.8	4.7	72.8

Table 3 (continued)

Brand	Hybrid §	Avg. Yield† ± Std Error (n=4)	Moisture at Harvest (n=4)	Test Weight‡ (n=1)	Lodging (n=1)	Plant Height‡ (n=1)	Ear Height‡ (n=1)	Protein‡ (n=1)	Oil‡ (n=1)	Starch‡ (n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Agrigold	A6486VT2RIB	145 ± 5	15.0	58.3	4	92	37	9.6	4.3	72.9
Armor	1262PRO2	145 ± 5	15.8	60.2	0	92	36	9.3	4.7	72.8
Agrigold	A6476VT3Pro	145 ± 5	15.0	57.9	3	87	34	11.0	4.4	72.3
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	144 ± 5	15.5	62.1	1	95	37	11.0	4.0	73.1
Armor	1010PRO2	143 ± 5	14.9	58.8	1	94	39	10.0	4.7	72.4
Beck's	6175AMX (RR/LL/CB/RW)	142 ± 5	15.5	61.1	1	93	35	9.9	4.5	72.7
Augusta	A0606GTCBLL	141 ± 5	15.6	58.0	0	95	39	9.3	4.0	74.0
Augusta	A5461GTCBLL	140 ± 5	15.8	57.9	3	97	45	9.5	3.9	73.9
Delta Grow	2688 GTCBLL	139 ± 5 #	13.3	58.1	2	96	39	9.6	4.3	72.6
LG Seeds	LG 2602VT3Pro	138 ± 5	16.1	57.5	0	87	29	10.0	4.5	72.0
Armor	1161PRO2	133 ± 5	15.1	60.3	2	90	25	9.9	4.2	73.1
Caverndale Farms	CF 748 3000GT (LL/Bt/RW)	128 ± 5	14.4	57.5	1	92	37	11.0	3.7	73.2
Warren / Dairyland	1809	112 ± 5 #	14.0	58.6	3	95	39	13.0	4.2	71.5
	Average	**151**	**15.3**	**59.2**	**2**	**91**	**36**	**9.7**	**4.4**	**72.8**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch presented on a dry weight basis

†All Yields are adjusted to 15.5% moisture.

‡Average at Knoxville.

Average calculated using best linear unbiased estimates from Ames location. These four hybrids were severely damaged by Zorial® herbicide carryover applied in the 2010 growing season.

Table 4. Mean yields and agronomic characteristics of 50 early-season (<114 DAP) corn hybrids (listed alphabetically by brand) evaluated in THREE LOW YIELDING ENVIRONMENTS in Tennessee (Springfield irrigated and non-irrigated and Milan non-irrigated) during 2012. (DUE TO LOW YIELDS AND ERROR VARIATION THESE DATA ARE EXCLUDED FROM OVERALL ANALYSES)

		Springfield		Milan			
		Yield †		Yield †	Cob Length	Grain Fill	Lodging
Brand	Hybrid §	(Irr.)	(Non-Irr.)	(Non-Irr.)	(n=1)	(n=1)	(n=1)
		bu/a	bu/a	bu/a	in.	%	%
Agrigold	A6489VT3	119	58	52	4.7	73	23
Agrigold	A6533VT2RIB	89	24	35	2.5	50	2
Agrigold	A6476VT3Pro	110	36	19	2.8	11	37
Agrigold	A6553VT2RIB	63	36	27	4.3	43	12
Agrigold	A6486VT2RIB	90	15	27	3.0	32	19
Agrigold	A6517VT3Pro	40	9	25	3.2	31	3
Armor	1262PRO2	66	19	57	3.8	50	2
Armor	1010PRO2	130	48	73	5.2	50	10
Armor	1161PRO2	47	17	61	4.5	70	2
Armor	1133PRO3	100	47	60	5.3	68	10
Armor	1111PRO3	84	24	70	4.7	68	3
Augusta	A0720CBLL	77	36	22	4.0	8	3
Augusta	A5461GTCBLL	46	9	15	2.3	0	17
Augusta	A0606GTCBLL	49	19	27	4.7	40	14
Augusta	A5658GTCBLL	69	7	19	3.8	8	1
Augusta	A5560VT3Pro	67	0	72	5.3	72	1
Augusta	A5262GT3000	72	27	18	3.5	7	10
Augusta	A5362VT3Pro	98	33	26	5.0	23	3
Augusta	A5363VT3Pro	128	40	43	3.2	45	22
Beck's	Phoenix Brand 6442A4 (RR/LL/CB/RW/BL)	63	18	56	3.7	43	17
Beck's	6272HR (RR/LL/CB)	84	35	56	5.0	65	5
Beck's	6175AMX (RR/LL/CB/RW)	78	20	47	4.5	38	1
Caverndale Farms	CF 748 3000GT (LL/Bt/RW)	79	39	23	3.2	7	1
Caverndale Farms	CF 803 3000GT (LL/Bt/RW)	66	17	22	2.5	9	3
Croplan	6640VT3P	83	6	35	5.0	37	0
Croplan	6160VT3P	33	28	34	5.0	27	4
DeKalb	DKC61-88 GENVT3P	90	43	30	4.3	37	6
DeKalb	DKC62-09 GENVT3P	55	18	46	4.0	44	3
DeKalb	DKC63-87 GENVT2P	112	26	47	5.0	43	15
Delta Grow	2688 GTCBLL	114	0	23	3.5	33	6

Table 4 (continued)

		Springfield		Milan			
		Yield †		Yield †	Cob Length	Grain Fill	Lodging
Brand	**Hybrid §**	**(Irr.)**	**(Non-Irr.)**	**(Non-Irr.)**	**(n=1)**	**(n=1)**	**(n=1)**
		bu/a	bu/a	bu/a	in.	%	%
Dyna-Gro	D51VP32 (VT3P)	113	8	70	4.5	70	3
Dyna-Gro	D52VP20 (VT3P)	38	16	75	4.7	72	4
Dyna-Gro	D52VC91 (VT3P)	92	23	8	4.0	9	1
Great Lakes	6354G3VT3	81	18	42	4.0	45	3
Great Lakes	6232VT3Pro	37	3	22	3.3	30	3
LG Seeds	LG 2555VT3	81	16	20	3.7	25	43
LG Seeds	LG 2602VT3Pro	33	0	32	3.0	27	2
Mycogen	2V715 (RR/LL/CB/RW)	109	37	51	4.0	10	32
NK Brand	N68B-3111 (GT/LL/CB/RW/VIP)	47	14	47	3.5	38	4
NK Brand	N72Q-3111 (GT/LL/CB/RW/VIP)	43	17	41	4.7	60	45
Steyer	11204 VT3Pro	34	2	55	6.0	60	5
Steyer	11302 VT3Pro	116	18	25	2.7	8	23
Terral-REV Brand	21HR33 (RR/LL/HX1)	48	35	39	3.3	33	3
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	66	18	33	4.7	50	3
Terral-REV Brand	23RE73 (RR/LL/HXX)	35	11	9	3.2	7	4
Warren / Dairyland	9111SSX (RR/LL/CB/RW)	105	26	26	5.7	15	7
Warren / Dairyland	1013	98	18	44	4.2	40	6
Warren / Dairyland	1809	70	39	0	2.7	0	12
Warren / Dairyland	9212Q (RR/LL/CB/RW)	136	35	45	4.7	43	34
Warren / Dairyland	9610 (RR/LL/CB/RW)	72	8	16	3.0	22	1
	Avg. (bu/a)	**76**	**22**	**37**	**4.0**	**37**	**10**
	L.S.D.$_{.05}$ (bu/a)	**30**	**25**	**20**			
	C.V. (%)	**24.8**	**70.9**	**32.7**			

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

Cob length and fill taken on five random mid-plot ears at Milan.

Table 5. Mean yields of 17 early-season (<114 DAP) corn hybrids evaluated in four environments for two years (2011-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=8)	Knoxville	Milan (Irr.)	Ames	AgCenter Memphis
		---------- bu/a----------				
Mycogen	2V715 (RR/LL/CB/RW)	182 ± 3	194	215	136	181
Warren / Dairyland	9111SSX (RR/LL/CB/RW)	180 ± 3	182	213	148	174
Steyer	11204 VT3Pro	176 ± 3	181	237	126	160
DeKalb	DKC63-87 GENVT2P	176 ± 3	177	234	138	154
DeKalb	DKC62-09 GENVT3P	175 ± 3	162	239	124	174
Steyer	11302 VT3Pro	175 ± 3	183	210	144	162
Agrigold	A6553VT2RIB	174 ± 3	172	217	127	181
Agrigold	A6489VT3	174 ± 3	187	240	115	155
Augusta	A0720CBLL	171 ± 3	159	223	128	174
DeKalb	DKC61-88 GENVT3P	171 ± 3	180	220	130	154
Agrigold	A6533VT2RIB	171 ± 3	169	218	126	171
Augusta	A0606GTCBLL	168 ± 3	169	211	116	174
Augusta	A5461GTCBLL	168 ± 3	173	200	127	170
Augusta	A5658GTCBLL	166 ± 3	167	214	123	160
Augusta	A5560VT3Pro	164 ± 3	134	230	116	175
Armor	1262PRO2	163 ± 3	154	224	110	166
Agrigold	A6476VT3Pro	163 ± 3	161	213	117	161
	Avg. (bu/a)	**172**	**171**	**221**	**127**	**167**
	L.S.D.$_{.05}$ (bu/a)	**11**	**26**	**22**	**22**	**20**
	C.V. (%)	**8.8**	**10.1**	**6.6**	**11.0**	**8.7**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Table 6. Mean yields and agronomic characteristics of 17 early-season corn hybrids evaluated in four environments for two years (2011-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=8)	Moisture (n=8)	Test Weight‡ (n=2)	Lodging (n=3)	Plant Height‡ (n=2)	Ear Height‡ (n=2)	Protein‡ (n=2)	Oil‡ (n=2)	Starch‡ (n=2)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Mycogen	2V715 (RR/LL/CB/RW)	182 ± 3	15.0	55.0	4	93	37	9.3	4.2	73.1
Warren / Dairyland	9111SSX (RR/LL/CB/RW)	180 ± 3	15.5	56.1	3	88	34	8.8	4.3	73.0
Steyer	11204 VT3Pro	176 ± 3	16.6	59.1	2	94	34	9.0	4.3	73.4
DeKalb	DKC63-87 GENVT2P	176 ± 3	15.8	57.3	1	89	32	9.6	4.2	73.0
DeKalb	DKC62-09 GENVT3P	175 ± 3	15.6	58.3	1	86	31	8.7	4.2	73.4
Steyer	11302 VT3Pro	175 ± 3	15.4	57.2	0	90	32	8.9	4.0	73.5
Agrigold	A6553VT2RIB	174 ± 3	16.7	56.9	1	90	30	9.6	4.2	73.0
Agrigold	A6489VT3	174 ± 3	15.9	58.1	1	88	35	10.0	4.3	72.6
Augusta	A0720CBLL	171 ± 3	15.1	57.9	3	96	37	9.8	4.1	73.5
DeKalb	DKC61-88 GENVT3P	171 ± 3	15.3	57.5	0	87	34	9.3	4.2	73.4
Agrigold	A6533VT2RIB	171 ± 3	16.0	58.8	2	88	30	9.4	4.3	72.8
Augusta	A0606GTCBLL	168 ± 3	15.8	55.9	0	97	35	8.9	3.9	74.2
Augusta	A5461GTCBLL	168 ± 3	15.7	55.6	1	100	39	9.0	3.8	74.3
Augusta	A5658GTCBLL	166 ± 3	15.2	57.9	1	88	32	9.6	4.4	73.0
Augusta	A5560VT3Pro	164 ± 3	15.9	56.7	1	90	27	9.0	4.1	73.6
Armor	1262PRO2	163 ± 3	16.0	58.7	2	92	32	8.9	4.4	73.3
Agrigold	A6476VT3Pro	163 ± 3	15.4	56.8	1	87	33	9.9	4.3	73.1
	Average	**172**	**15.7**	**57.3**	**1**	**91**	**33**	**9.3**	**4.2**	**73.3**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

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 at Knoxville.

Table 7. Mean yields of five early-season (<114 DAP) corn hybrids evaluated in three environments for three years (2010-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=9)	Knoxville	Milan (Irr.)	Ames
		---------- bu/a	----------	----------	----------
Agrigold	A6489VT3	177 ± 3	187	227	117
Agrigold	A6533VT2RIB	176 ± 3	177	221	129
Agrigold	A6553VT2RIB	174 ± 3	181	220	122
Augusta	A5461GTCBLL	172 ± 3	175	213	128
Agrigold	A6476VT3Pro	164 ± 3	167	207	119
	Avg. (bu/a)	**173**	**177**	**218**	**123**
	L.S.D.$_{.05}$ (bu/a)	**13**	**23**	**20**	**24**
	C.V. (%)	**8.7**	**9.1**	**6.4**	**12.3**

Table 8. Mean yields and agronomic characteristics of five early-season corn hybrids evaluated in three environments for three years (2010-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=9)	Moisture (n=9)	Test Weight‡ (n=3)	Lodging (n=5)	Plant Height‡ (n=3)	Ear Height‡ (n=3)	Protein‡ (n=3)	Oil‡ (n=3)	Starch‡ (n=3)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Agrigold	A6489VT3	177 ± 3	15.8	58.6	1	92	37	10.0	4.3	72.7
Agrigold	A6533VT2RIB	176 ± 3	16.0	58.2	1	93	32	9.6	4.4	72.5
Agrigold	A6553VT2RIB	174 ± 3	17.3	56.7	1	96	33	9.7	4.3	73.0
Augusta	A5461GTCBLL	172 ± 3	15.3	56.4	1	105	41	9.2	3.8	74.1
Agrigold	A6476VT3Pro	164 ± 3	15.1	57.4	1	91	36	10.0	4.4	72.7
	Average	**173**	**15.9**	**57.5**	**1**	**95**	**36**	**9.7**	**4.2**	**73.0**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

LL = contains a gene for tolerance to glufosinate

†All Yields are adjusted to 15.5% moisture.

‡Average at Knoxville.

Table 9. Mean yields of 38 medium-season (114-116 DAP) corn hybrids evaluated in four environments in Tennessee during 2012.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=4)	Knoxville	Milan (Irr.)	Ames	AgCenter Memphis
		----------	----------	bu/a	----------	----------
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	173 ± 5	197	248	129	116
DeKalb	DKC64-69 GENVT3P	168 ± 5	170	241	132	127
LG Seeds	LG 2641VT3	167 ± 5	184	246	120	117
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	163 ± 5	182	242	136	92
Steyer	X21142TM VT3PRO	162 ± 6	167	232	131	119
Dyna-Gro	D54VP81 (VT3P)	162 ± 5	170	252	97	127
DeKalb	DKC66-97 GENVT2P	159 ± 6	167	227	137	106
Warren / Dairyland	9214Q (RR/LL/CB/RW)	158 ± 5	165	230	124	114
Delta Grow	2888 GTCBLL	158 ± 6	164	228	120	119
Delta Grow	3788 GTCBLL	157 ± 5	173	213	126	116
Croplan	6960VT3P	156 ± 5	177	239	93	115
DeKalb	DKC66-86 GENVT3P	155 ± 6	172	215	110	122
Croplan	6926VT3P	155 ± 6	167	210	129	112
Great Lakes	6530VT3Pro	154 ± 6	157	233	124	104
Steyer	11406 VT3Pro	154 ± 6	166	234	106	110
Augusta	A5565VT3Pro	154 ± 5	166	239	123	87
Beck's	6626AMX (RR/CB/RW)	154 ± 5	159	212	112	132
Warren / Dairyland	9614Q (RR/LL/CB/RW)	153 ± 5	171	215	105	119
Augusta	A7664VT3	153 ± 5	156	236	123	95
Agrigold	A6659VT3Pro	152 ± 5	159	222	120	108
AgVenture	RL8899HB (RR/LL/CB)	152 ± 5	179	225	86	119
Terral-REV Brand	26HR23 (RR/LL/HX1)	151 ± 5	176	224	97	105
Mycogen	2V738 (RR/LL/CB/RW)	151 ± 5	172	220	93	118
Armor	1550PRO3	151 ± 6	169	247	93	93
DeKalb	DKC65-67 GENVT2P	149 ± 6	181	204	110	101
Armor	1330PRO3	148 ± 5	163	227	102	101
Terral-REV Brand	25BHR63 (RR/LL/CB/HX1)	148 ± 6	155	231	101	105
Agrigold	A6632VT2RIB	148 ± 5	157	211	124	100
NK Brand	N74R-3000GT (LL/CB/RW)	148 ± 5	162	206	123	100
Delta Grow	6488 GTCBLL	146 ± 5	133	221	122	109
Golden Acres	26V21 (VT3Pro)	146 ± 5	165	222	105	92
LG Seeds	LG 2636VT3Pro	146 ± 5	137	234	115	97
Beck's	Phoenix Brand 6948A3 (RR/LL/CB/RW)	144 ± 5	153	181	132	111
Delta Grow	4725 GTCBLL Viptera	142 ± 5	150	200	116	100

Table 9 (continued)

Brand	Hybrid §	Avg. Yield† ± Std Err (n=4)	Knoxville	Milan (Irr.)	Ames	AgCenter Memphis
		---------- bu/a----------				
Terral-REV Brand	26R60 (RR)	141 ± 5	142	199	91	133
Agrigold	A6679VT2RIB	141 ± 6	171	208	97	90
Agrigold	A6573VT3Pro	141 ± 6	129	223	103	107
Warren / Dairyland	7015 (RR/LL/CB)	116 ± 5	118	105	124	117
	Avg. (bu/a)	**152**	**164**	**221**	**114**	**109**
	L.S.D.$_{.05}$ (bu/a)	**14**	**21**	**31**	**25**	**32**
	C.V. (%)	**11.1**	**7.5**	**8.5**	**13.2**	**17.9**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Table 10. Overall mean yields and agronomic characteristics of 38 medium-season corn hybrids evaluated in four environments in Tennessee during 2012.

Brand	Hybrid §	Avg. Yield† ± Std Error (n=4)	Moisture at Harvest (n=4)	Test Weight‡ (n=1)	Lodging (n=1)	Plant Height‡ (n=1)	Ear Height‡ (n=1)	Protein‡ (n=1)	Oil‡ (n=1)	Starch‡ (n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	173 ± 5	16.2	58.8	0	94	38	8.8	4.5	73.3
DeKalb	DKC64-69 GENVT3P	168 ± 5	16.0	59.2	6	87	35	9.1	4.5	73.3
LG Seeds	LG 2641VT3	167 ± 5	16.3	58.6	1	83	29	9.1	4.4	73.1
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	163 ± 5	16.8	56.4	2	90	36	8.8	4.5	73.3
Steyer	X21142TM VT3PRO	162 ± 6	15.9	60.2	3	81	28	10.0	4.5	72.7
Dyna-Gro	D54VP81 (VT3P)	162 ± 5	16.2	60.9	2	85	33	8.9	4.8	73.2
DeKalb	DKC66-97 GENVT2P	159 ± 6	16.0	59.9	0	84	29	9.5	4.6	72.9
Warren / Dairyland	9214Q (RR/LL/CB/RW)	158 ± 5	16.2	58.9	4	88	35	9.6	4.5	73.1
Delta Grow	2888 GTCBLL	158 ± 6	16.1	59.9	3	88	31	9.9	4.2	73.3
Delta Grow	3788 GTCBLL	157 ± 5	16.8	59.9	1	82	38	9.3	4.2	74.1
Croplan	6960VT3P	156 ± 5	16.2	60.8	3	82	32	9.2	4.9	72.9
DeKalb	DKC66-86 GENVT3P	155 ± 6	15.8	59.8	1	94	36	9.6	4.6	72.8
Croplan	6926VT3P	155 ± 6	15.9	62.0	2	81	31	9.9	5.0	71.8
Great Lakes	6530VT3Pro	154 ± 6	15.9	57.9	2	84	29	9.9	4.5	72.4
Steyer	11406 VT3Pro	154 ± 6	16.2	60.5	4	84	34	9.5	4.7	73.0
Augusta	A5565VT3Pro	154 ± 5	16.0	60.8	4	78	27	9.8	4.6	72.8
Beck's	6626AMX (RR/CB/RW)	154 ± 5	16.6	61.2	1	93	38	9.5	4.7	72.8
Warren / Dairyland	9614Q (RR/LL/CB/RW)	153 ± 5	16.3	55.3	13	89	38	9.3	4.4	73.3
Augusta	A7664VT3	153 ± 5	16.8	58.8	2	88	32	9.9	4.5	72.4
Agrigold	A6659VT3Pro	152 ± 5	15.9	59.6	3	80	31	8.8	4.5	73.2
AgVenture	RL8899HB (RR/LL/CB)	152 ± 5	16.4	60.4	1	91	34	9.3	4.7	73.0
Terral-REV Brand	26HR23 (RR/LL/HX1)	151 ± 5	15.5	61.3	1	94	41	9.0	4.0	74.1
Mycogen	2V738 (RR/LL/CB/RW)	151 ± 5	15.2	58.9	10	80	32	9.7	5.1	71.6
Armor	1550PRO3	151 ± 6	16.1	61.0	2	82	29	9.1	4.8	73.0
DeKalb	DKC65-67 GENVT2P	149 ± 6	15.7	59.1	1	91	35	9.1	4.7	72.8
Armor	1330PRO3	148 ± 5	15.3	60.1	2	90	36	9.7	4.3	73.3
Terral-REV Brand	25BHR63 (RR/LL/CB/HX1)	148 ± 6	16.5	60.9	1	95	37	9.0	4.2	73.6
Agrigold	A6632VT2RIB	148 ± 5	16.0	59.2	0	82	28	9.0	4.5	73.1
NK Brand	N74R-3000GT (LL/CB/RW)	148 ± 5	16.4	58.9	3	88	37	8.7	4.0	73.8
Delta Grow	6488 GTCBLL	146 ± 5	16.5	59.0	1	95	39	11.0	4.1	72.8
Golden Acres	26V21 (VT3Pro)	146 ± 5	16.8	59.0	1	82	35	9.0	4.5	73.5
LG Seeds	LG 2636VT3Pro	146 ± 5	15.7	58.3	2	84	30	9.7	4.7	72.1
Beck's	Phoenix Brand 6948A3 (RR/LL/CB/RW)	144 ± 5	15.9	59.0	1	88	34	9.1	4.2	73.5
Delta Grow	4725 GTCBLL Viptera	142 ± 5	17.3	56.9	1	96	39	10.0	3.9	73.3

Table 10 (continued)

Brand	Hybrid §	Avg. Yield† ± Std Error (n=4)	Moisture at Harvest (n=4)	Test Weight‡ (n=1)	Lodging (n=1)	Plant Height‡ (n=1)	Ear Height‡ (n=1)	Protein‡ (n=1)	Oil‡ (n=1)	Starch‡ (n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Terral-REV Brand	26R60 (RR)	141 ± 5	16.3	59.8	2	94	36	9.3	4.2	73.6
Agrigold	A6679VT2RIB	141 ± 6	16.8	60.2	0	88	34	9.3	4.7	72.6
Agrigold	A6573VT3Pro	141 ± 6	15.7	58.6	2	84	26	9.8	4.4	72.8
Warren / Dairyland	7015 (RR/LL/CB)	116 ± 5	16.6	57.5	0	89	42	9.7	4.3	73.1
	Average	**152**	**16.2**	**59.4**	**2**	**87**	**34**	**9.4**	**4.5**	**73.0**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch presented on a dry weight basis

†All Yields are adjusted to 15.5% moisture.

‡Average at Knoxville.

Table 11. Mean yields and agronomic characteristics of 38 medium-season (114-116 DAP) corn hybrids (listed alphabetically by brand) evaluated in THREE LOW YIELDING ENVIRONMENTS in Tennessee (Springfield irrigated and non-irrigated and Milan non-irrigated) during 2012. (DUE TO LOW YIELDS AND ERROR VARIATION THESE DATA ARE EXCLUDED FROM OVERALL ANALYSES)

		Springfield		Milan			
		Yield †		Yield †	Cob Length	Grain Fill	Lodging
Brand	Hybrid §	(Irr.)	(Non-Irr.)	(Non-Irr.)	(n=1)	(n=1)	(n=1)
		bu/a	bu/a	bu/a	in.	%	%
Agrigold	A6573VT3Pro	123	1	24	1.3	5	2
Agrigold	A6632VT2RIB	118	16	39	3.0	37	5
Agrigold	A6659VT3Pro	119	17	13	1.3	5	3
Agrigold	A6679VT2RIB	91	11	25	3.0	32	5
AgVenture	RL8899HB (RR/LL/CB)	64	8	12	3.5	0	9
Armor	1550PRO3	120	25	62	3.3	32	2
Armor	1330PRO3	146	16	14	3.0	2	1
Augusta	A5565VT3Pro	147	28	21	3.8	4	2
Augusta	A7664VT3	162	12	36	2.3	20	10
Beck's	6626AMX (RR/CB/RW)	71	2	15	4.2	14	6
Beck's	Phoenix Brand 6948A3 (RR/LL/CB/RW)	132	17	6	2.7	0	4
Croplan	6926VT3P	159	21	17	4.5	7	1
Croplan	6960VT3P	95	16	62	4.3	42	2
DeKalb	DKC64-69 GENVT3P	131	17	28	3.2	7	2
DeKalb	DKC65-67 GENVT2P	128	37	73	4.7	50	4
DeKalb	DKC66-86 GENVT3P	92	26	19	5.0	30	10
DeKalb	DKC66-97 GENVT2P	109	16	21	2.3	2	2
Delta Grow	2888 GTCBLL	149	12	41	3.8	18	15
Delta Grow	3788 GTCBLL	125	14	14	4.3	17	15
Delta Grow	4725 GTCBLL Viptera	99	12	16	4.0	6	14
Delta Grow	6488 GTCBLL	115	14	6	3.0	5	16
Dyna-Gro	D54VP81 (VT3P)	80	13	52	3.0	30	2
Golden Acres	26V21 (VT3Pro)	86	0	17	3.7	12	11
Great Lakes	6530VT3Pro	65	0	22	2.0	9	4
LG Seeds	LG 2636VT3Pro	69	2	25	3.3	37	2
LG Seeds	LG 2641VT3	126	13	33	3.7	17	11
Mycogen	2V738 (RR/LL/CB/RW)	150	24	36	2.5	15	18

Table 11 (continued)

		Springfield		Milan			
		Yield †		Yield †	Cob Length	Grain Fill	Lodging
Brand	**Hybrid §**	**(Irr.)**	**(Non-Irr.)**	**(Non-Irr.)**	**(n=1)**	**(n=1)**	**(n=1)**
		bu/a	bu/a	bu/a	in.	%	%
NK Brand	N74R-3000GT (LL/CB/RW)	109	20	11	3.8	12	3
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	128	13	25	3.8	15	14
Steyer	11406 VT3Pro	132	11	48	4.2	57	3
Steyer	X21142TM VT3PRO	145	20	30	4.7	2	1
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	95	10	15	4.3	0	16
Terral-REV Brand	25BHR63 (RR/LL/CB/HX1)	100	6	6	4.3	25	3
Terral-REV Brand	26HR23 (RR/LL/HX1)	70	5	4	3.3	7	22
Terral-REV Brand	26R60 (RR)	76	0	10	2.0	1	7
Warren / Dairyland	7015 (RR/LL/CB)	90	18	2	3.0	0	3
Warren / Dairyland	9214Q (RR/LL/CB/RW)	98	7	23	2.7	13	9
Warren / Dairyland	9614Q (RR/LL/CB/RW)	112	10	52	3.2	25	5
	Avg. (bu/a)	**111**	**13**	**25**	**3.4**	**16**	**7**
	L.S.D.$_{.05}$ (bu/a)	**50**	**13**	**17**			
	C.V. (%)	**27.4**	**61.9**	**40.5**			

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

Cob length and fill taken on five random mid-plot ears at Milan.

Table 12. Mean yields of 13 medium-season (114-116 DAP) corn hybrids evaluated in four environments for two years (2011-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=8)	Knoxville	Milan (Irr.)	Ames	AgCenter Memphis
		---------- bu/a----------				
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	178 ± 4	171	243	137	160
DeKalb	DKC64-69 GENVT3P	176 ± 4	174	233	126	172
Steyer	11406 VT3Pro	172 ± 4	166	246	130	145
Dyna-Gro	D54VP81 (VT3P)	171 ± 4	167	253	108	157
Croplan	6926VT3P	171 ± 4	162	223	138	162
Delta Grow	2888 GTCBLL	167 ± 4	177	231	132	127
Warren / Dairyland	9214Q (RR/LL/CB/RW)	166 ± 4	163	229	133	140
Agrigold	A6679VT2RIB	166 ± 4	183	215	128	137
Delta Grow	3788 GTCBLL	163 ± 4	167	216	136	134
Augusta	A7664VT3	163 ± 4	160	238	132	122
Terral-REV Brand	26R60 (RR)	162 ± 4	155	224	112	156
Agrigold	A6573VT3Pro	160 ± 4	141	240	122	139
Agrigold	A6632VT2RIB	157 ± 4	145	224	135	126
	Avg. (bu/a)	**167**	**164**	**232**	**128**	**144**
	L.S.D.$_{.05}$ (bu/a)	**12**	**24**	**24**	**22**	**30**
	C.V. (%)	**9.4**	**9.0**	**6.5**	**10.8**	**12.8**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

LL = contains a gene for tolerance to glufosinate

Table 13. Mean yields and agronomic characteristics of 13 medium-season corn hybrids evaluated in four environments for two years (2011-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=8)	Moisture (n=8)	Test Weight‡ (n=2)	Lodging (n=3)	Plant Height‡ (n=2)	Ear Height‡ (n=2)	Protein‡ (n=2)	Oil‡ (n=2)	Starch‡ (n=2)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	178 ± 4	17.4	55.4	1	91	32	8.5	4.2	73.9
DeKalb	DKC64-69 GENVT3P	176 ± 4	15.8	57.7	3	88	32	9.0	4.4	73.4
Steyer	11406 VT3Pro	172 ± 4	16.0	59.4	3	85	30	9.0	4.6	73.3
Dyna-Gro	D54VP81 (VT3P)	171 ± 4	16.2	59.1	2	85	29	8.8	4.6	73.3
Croplan	6926VT3P	171 ± 4	15.6	59.7	1	82	28	9.4	4.8	72.4
Delta Grow	2888 GTCBLL	167 ± 4	16.1	57.6	2	97	33	9.4	4.0	74.0
Warren / Dairyland	9214Q (RR/LL/CB/RW)	166 ± 4	16.5	57.1	1	95	32	9.2	4.5	73.5
Agrigold	A6679VT2RIB	166 ± 4	16.7	59.2	0	88	32	9.2	4.5	73.1
Delta Grow	3788 GTCBLL	163 ± 4	16.9	58.3	1	87	36	9.2	4.1	74.2
Augusta	A7664VT3	163 ± 4	16.7	57.2	1	92	29	9.7	4.5	72.4
Terral-REV Brand	26R60 (RR)	162 ± 4	16.1	57.9	4	96	32	9.0	4.1	74.0
Agrigold	A6573VT3Pro	160 ± 4	16.0	57.1	1	88	26	9.4	4.3	73.1
Agrigold	A6632VT2RIB	157 ± 4	16.2	58.9	1	79	26	8.7	4.4	73.5
	Average	**167**	**16.3**	**58.0**	**2**	**89**	**31**	**9.1**	**4.4**	**73.4**

†All Yields are adjusted to 15.5% moisture.

‡Average at Knoxville.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch on a dry weight basis

Table 14. Mean yields of six medium-season (114-116 DAP) corn hybrids evaluated in three environments for three years (2010-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=9)	Knoxville	Milan (Irr.)	Ames
		---------- bu/a----------			
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	181 ± 3	181	233	129
DeKalb	DKC64-69 GENVT3P	179 ± 3	180	229	128
Croplan	6926VT3P	175 ± 3	171	222	131
Warren / Dairyland	9214Q (RR/LL/CB/RW)	172 ± 3	171	220	123
Agrigold	A6632VT2RIB	164 ± 3	148	219	126
Terral-REV Brand	26R60 (RR)	163 ± 3	165	220	104
	Avg. (bu/a)	**172**	**169**	**224**	**124**
	L.S.D.$_{.05}$ (bu/a)	**13**	**26**	**21**	**21**
	C.V. (%)	**8.7**	**9.8**	**6.2**	**11.9**

Table 15. Mean yields and agronomic characteristics of six medium-season corn hybrids evaluated in three environments for three years (2010-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=9)	Moisture (n=9)	Test Weight‡ (n=3)	Lodging (n=5)	Plant Height‡ (n=3)	Ear Height‡ (n=3)	Protein‡ (n=3)	Oil‡ (n=3)	Starch‡ (n=3)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	181 ± 3	16.9	55.8	1	94	34	8.8	4.2	73.8
DeKalb	DKC64-69 GENVT3P	179 ± 3	15.8	58.1	2	91	34	9.2	4.5	73.2
Croplan	6926VT3P	175 ± 3	15.6	60.1	1	85	30	9.7	4.8	72.4
Warren / Dairyland	9214Q (RR/LL/CB/RW)	172 ± 3	17.1	56.9	1	99	36	9.5	4.5	73.3
Agrigold	A6632VT2RIB	164 ± 3	16.3	58.4	1	84	29	9.1	4.4	73.3
Terral-REV Brand	26R60 (RR)	163 ± 3	16.1	58.5	3	100	34	9.2	4.0	74.1
	Average	**172**	**16.3**	**58.0**	**2**	**92**	**33**	**9.3**	**4.4**	**73.4**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

†All Yields are adjusted to 15.5% moisture.

‡Average at Knoxville.

LL = contains a gene for tolerance to glufosinate

Table 16. Mean yields of 21 full-season (>116 DAP) corn hybrids evaluated in three environments in Tennessee during 2012.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=3)	Knoxville	Milan (Irr.)	Ames
		---------- bu/a	----------		
Croplan	8621VT3P	182 ± 9	203	230	112
Augusta	A6867CBLL	176 ± 8 #	184	228	.
Terral-REV Brand	27HR83 (RR/LL/HX1)	169 ± 9	167	226	115
Terral-REV Brand	28HR20 (RR/LL/HX1)	168 ± 10	207	211	86
Croplan	8410VT3P	166 ± 9	165	203	130
Dyna-Gro	D57VP51 (VT3P)	165 ± 9	160	216	119
Masters Choice	MCT 6751 (RR)	161 ± 8	160	193	131
Caverndale Farms	CF 908 3000GT (LL/Bt/RW)	161 ± 8	166	195	123
Golden Acres	27V01 (VT3Pro)	161 ± 9	169	190	124
TN Exp	TN 1203W	160 ± 8 #	195	169	.
DeKalb	DKC67-57 GENVT3P	159 ± 9	148	199	131
Terral-REV Brand	29HR13 (RR/LL/HX1)	159 ± 9	165	201	111
Terral-REV Brand	28R10 (RR)	158 ± 9	183	202	88
Caverndale Farms	CF 864 VT2PRO RIB (RR)	157 ± 9	169	192	111
DeKalb	DKC69-29 GENVT3P	155 ± 9	140	216	109
Terral-REV Brand	28HR29 (RR/LL/HX1)	152 ± 8	186	184	87
TN Exp	TN 1103W	152 ± 9 #	172	169	.
TN Exp	TN 1201	146 ± 9 #	158	167	.
TN Exp	TN 1202	145 ± 8 #	161	161	.
Terral-REV Brand	27HR52 (RR/LL/HX1)	138 ± 10	138	192	84
Steyer	X21192TM VT3PRO	133 ± 9	196	72	131
	Avg. (bu/a)	**161**	**171**	**192**	**113**
	L.S.D.$_{.05}$ (bu/a)	**23**	**31**	**51**	**37**
	C.V. (%)	**14.2**	**10.9**	**15.3**	**16.5**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Average calculated using best linear unbiased estimates from Ames location. These five hybrids were severely damaged by Zorial® herbicide carryover applied in the 2010 growing season.

Table 17. Overall mean yields and agronomic characteristics of 21 full-season corn hybrids evaluated in three environments in Tennessee during 2012.

Brand	Hybrid §	Avg. Yield† ± Std Error (n=3)	Moisture at Harvest (n=3)	Test Weight‡ (n=1)	Lodging (n=1)	Plant Height‡ (n=1)	Ear Height‡ (n=1)	Protein‡ (n=1)	Oil‡ (n=1)	Starch‡ (n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Croplan	8621VT3P	182 ± 9	16.2	58.8	2	83	33	9.3	5.2	72.3
Augusta	A6867CBLL	176 ± 8 #	17.2	60.9	2	91	36	9.7	4.3	73.2
Terral-REV Brand	27HR83 (RR/LL/HX1)	169 ± 9	16.2	60.7	2	91	34	8.5	4.6	73.6
Terral-REV Brand	28HR20 (RR/LL/HX1)	168 ± 10	16.7	62.0	2	97	36	8.8	4.2	73.9
Croplan	8410VT3P	166 ± 9	16.6	60.9	1	77	26	9.7	4.6	73.1
Dyna-Gro	D57VP51 (VT3P)	165 ± 9	16.2	60.7	1	83	30	9.9	4.5	72.8
Masters Choice	MCT 6751 (RR)	161 ± 8	15.8	60.3	6	90	31	9.9	4.1	73.6
Caverndale Farms	CF 908 3000GT (LL/Bt/RW)	161 ± 8	16.8	59.7	2	91	36	9.9	4.2	73.2
Golden Acres	27V01 (VT3Pro)	161 ± 9	15.5	58.0	8	84	29	9.3	4.3	73.2
TN Exp	TN 1203W	160 ± 8 #	16.6	60.0	2	94	43	9.2	5.0	72.5
DeKalb	DKC67-57 GENVT3P	159 ± 9	16.2	60.1	2	81	30	10.0	4.6	72.8
Terral-REV Brand	29HR13 (RR/LL/HX1)	159 ± 9	17.1	60.3	1	91	36	9.7	4.8	72.6
Terral-REV Brand	28R10 (RR)	158 ± 9	17.4	61.5	2	92	34	8.9	4.3	73.8
Caverndale Farms	CF 864 VT2PRO RIB (RR)	157 ± 9	15.9	59.4	3	78	24	9.2	4.5	73.1
DeKalb	DKC69-29 GENVT3P	155 ± 9	16.2	60.6	1	76	28	9.9	4.7	72.3
Terral-REV Brand	28HR29 (RR/LL/HX1)	152 ± 8	17.8	60.1	1	94	37	8.9	4.6	73.3
TN Exp	TN 1103W	152 ± 9 #	17.2	60.7	8	93	46	8.8	5.0	72.6
TN Exp	TN 1201	146 ± 9 #	17.1	61.0	6	90	38	8.6	4.8	73.6
TN Exp	TN 1202	145 ± 8 #	15.9	60.9	4	82	33	9.7	5.1	72.2
Terral-REV Brand	27HR52 (RR/LL/HX1)	138 ± 10	16.4	59.3	0	87	28	9.5	4.0	73.9
Steyer	X21192TM VT3PRO	133 ± 9	19.9	57.5	4	94	38	9.3	4.4	73.9
	Average	**161**	**16.7**	**60.2**	**3**	**88**	**34**	**9.4**	**4.6**	**73.1**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Protein, Oil, and Starch presented on a dry weight basis

†All Yields are adjusted to 15.5% moisture.

‡Average at Knoxville.

Average calculated using best linear unbiased estimates from Ames location. These five hybrids were severely damaged by Zorial® herbicide carryover applied in the 2010 growing season.

Table 18. Mean yields and agronomic characteristics of 21 medium-season (>116 DAP) corn hybrids (listed alphabetically by brand) evaluated in THREE LOW YIELDING ENVIRONMENTS in Tennessee (Springfield irrigated and non-irrigated and Milan non-irrigated) during 2012. (DUE TO LOW YIELDS AND ERROR VARIATION THESE DATA ARE EXCLUDED FROM OVERALL ANALYSES)

		Springfield		Milan			
		Yield †		Yield †	Cob Length	Grain Fill	Lodging
Brand	**Hybrid §**	**(Irr.)**	**(Non-Irr.)**	**(Non-Irr.)**	**(n=1)**	**(n=1)**	**(n=1)**
		bu/a	bu/a	bu/a	in.	%	%
Augusta	A6867CBLL	147	9	48	4.0	57	13
Caverndale Farms	CF 864 VT2PRO RIB (RR)	148	6	31	3.5	43	6
Caverndale Farms	CF 908 3000GT (LL/Bt/RW)	117	11	34	3.7	38	5
Croplan	8410VT3P	112	12	23	2.7	14	2
Croplan	8621VT3P	154	16	17	3.7	19	9
DeKalb	DKC67-57 GENVT3P	160	15	29	4.5	12	4
DeKalb	DKC69-29 GENVT3P	136	12	30	4.7	1	2
Dyna-Gro	D57VP51 (VT3P)	143	11	13	2.0	2	3
Golden Acres	27V01 (VT3Pro)	171	0	13	1.7	2	22
Masters Choice	MCT 6751 (RR)	144	6	17	3.7	22	11
Steyer	X21192TM VT3PRO	95	16	3	0.3	0	40
Terral-REV Brand	27HR52 (RR/LL/HX1)	102	4	9	3.0	0	6
Terral-REV Brand	27HR83 (RR/LL/HX1)	144	5	8	1.7	8	25
Terral-REV Brand	28HR20 (RR/LL/HX1)	118	3	6	1.7	2	9
Terral-REV Brand	28HR29 (RR/LL/HX1)	93	3	3	1.3	2	13
Terral-REV Brand	28R10 (RR)	84	3	17	1.7	24	9
Terral-REV Brand	29HR13 (RR/LL/HX1)	123	6	4	1.7	0	9
TN Exp	TN 1103W	111	5	1	1.0	0	85
TN Exp	TN 1201	125	13	7	0.7	0	92
TN Exp	TN 1202	99	6	0	2.5	0	40
TN Exp	TN 1203W	130	12	4	1.0	0	61
	Avg. (bu/a)	**129**	**9**	**16**	**2.4**	**12**	**22**
	L.S.D.$_{.05}$ (bu/a)	**54**	**8**	**14**			
	C.V. (%)	**24.7**	**55.1**	**52.8**			

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

Cob length and fill taken on five random mid-plot ears at Milan.

Table 19. Mean yields of seven full-season (>116 DAP) corn hybrids evaluated in three environments for two years (2011-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=6)	Knoxville	Milan (Irr.)	Ames
		---------- bu/a	----------	----------	----------
Croplan	8410VT3P	182 ± 5	185	209	152
Augusta	A6867CBLL	182 ± 5	186	222	137
Terral-REV Brand	28HR20 (RR/LL/HX1)	179 ± 6	203	225	108
DeKalb	DKC67-57 GENVT3P	169 ± 5	160	207	141
Terral-REV Brand	28R10 (RR)	164 ± 5	184	204	105
Terral-REV Brand	27HR52 (RR/LL/HX1)	157 ± 6	167	197	109
TN Exp	TN 1103W	152 ± 5	170	165	121
	Avg. (bu/a)	**169**	**179**	**204**	**125**
	L.S.D.$_{.05}$ (bu/a)	**18**	**32**	**38**	**25**
	C.V. (%)	**11.9**	**11.5**	**11.9**	**11.9**

Table 20. Mean yields and agronomic characteristics of seven full-season corn hybrids evaluated in three environments for two years (2011-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=6)	Moisture (n=6)	Test Weight‡ (n=2)	Lodging (n=3)	Plant Height‡ (n=2)	Ear Height‡ (n=2)	Protein‡ (n=2)	Oil‡ (n=2)	Starch‡ (n=2)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Croplan	8410VT3P	182 ± 5	16.4	58.8	1	85	26	9.2	4.6	73.2
Augusta	A6867CBLL	182 ± 5	17.2	60.0	1	94	33	9.5	4.2	73.7
Terral-REV Brand	28HR20 (RR/LL/HX1)	179 ± 6	16.8	59.2	1	101	35	8.8	4.3	73.8
DeKalb	DKC67-57 GENVT3P	169 ± 5	16.1	58.8	1	85	30	9.5	4.4	73.1
Terral-REV Brand	28R10 (RR)	164 ± 5	17.2	59.8	3	97	33	8.8	4.2	73.9
Terral-REV Brand	27HR52 (RR/LL/HX1)	157 ± 6	17.1	56.6	0	95	29	9.0	4.1	73.9
TN Exp	TN 1103W	152 ± 5	17.3	59.2	8	99	45	8.8	4.9	72.8
	Average	**169**	**16.9**	**58.9**	**2**	**94**	**33**	**9.1**	**4.4**	**73.5**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.
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
VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance
VT3 = contains genes for European corn borer, corn root worm, and glyphosate resistance
VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

†All Yields are adjusted to 15.5% moisture.
‡Average at Knoxville.
W = white grain
LL = contains a gene for tolerance to glufosinate
Protein, Oil, and Starch on a dry weight basis

Table 21. Mean yields of three full-season (>116 DAP) corn hybrid evaluated in three environments for three years (2010-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=9)	Knoxville	Milan (Irr.)	Ames
		---------- bu/a	----------		
Augusta	A6867CBLL	174 ± 4	185	212	124
Terral-REV Brand	28HR20 (RR/LL/HX1)	171 ± 4	200	209	106
Terral-REV Brand	28R10 (RR)	158 ± 4	185	197	93
	Avg. (bu/a)	**168**	**190**	**206**	**108**
	L.S.D.$_{.05}$ (bu/a)	**17**	**29**	**32**	**24**
	C.V. (%)	**11.4**	**10.8**	**10.6**	**12.9**

†All Yields are adjusted to 15.5% moisture.

Table 22. Mean yields and agronomic characteristics of three full-season corn hybrid evaluated in three environments for three years (2010-2012) in Tennessee.

Brand	Hybrid §	Avg. Yield† ± Std Err (n=9)	Moisture (n=9	Test Weight‡ (n=3)	Lodging (n=5)	Plant Height‡ (n=3)	Ear Height‡ (n=3)	Protein‡ (n=3)	Oil‡ (n=3)	Starch‡ (n=3)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Augusta	A6867CBLL	174 ± 4	16.6	60.1	1	98	37	9.7	4.2	73.6
Terral-REV Brand	28HR20 (RR/LL/HX1)	171 ± 4	16.6	59.6	1	103	38	9.0	4.3	73.7
Terral-REV Brand	28R10 (RR)	158 ± 4	16.8	60.2	2	100	34	9.1	4.2	73.8
	Average	**168**	**16.7**	**60.0**	**1**	**100**	**36**	**9.3**	**4.2**	**73.7**

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

W = white grain

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

†All Yields are adjusted to 15.5% moisture.

‡Average at Knoxville.

COUNTY STANDARD TESTS ‡

Table 23. Yields of 23 early-season (<114 DAP) Roundup / stacked corn hybrids in 17 County Standard Tests in Tennessee and Kentucky during 2012.†‡

MS	Brand/Hybrid	Avg. Yld	Avg. Moist	Test ¶ Weight	Blount	*Irrg.* KY Calloway	KY Carlisle	Carrol	Coffee	Dyer	*Irrg.* Fayette	Franklin	KY Fulton	Giles	Henderson	Henry	Madison	Montgomery	Obion	Weakley (Grooms)	Weakley (Oliver)
		bu/a	%	lb/bu	5/7§	4/9	4/20	4/15	4/3	4/2	3/29	3/27	4/9	4/27	3/29	3/30	4/6	4/4	4/18	3/30	3/29
A	*LG Seeds LG2555 VT3	138	16.3	56.4	197	231	189	80	78	176	194	93	141	210	140	143	131	112	127	80	25
A	Mycogen 2V715 HX1/HXRW/RR/LL	138	15.5	56.4	168	233	197	72	94	159	207	89	158	169	140	152	122	114	149	71	45
AB	Warren / Dairyland 9212Q	135	15.6	56.2	172	226	151	73	90	173	207	105	139	154	119	146	131	124	154	85	46
ABC	*Dekalb DKC61-88 GENVT3P	134	15.4	57.6	177	257	166	79	86	158	212	95	132	154	140	141	128	117	127	70	38
ABC	Armor 1010PRO2 RR/VT2PRO	134	14.8	58.0	163	232	177	87	99	148	207	101	148	153	131	153	119	102	105	83	68
ABCD	Warren / Dairyland 9111SSX	133	15.5	57.4	175	234	167	66	71	151	198	93	140	208	142	145	127	80	145	76	39
ABCD	Terral 22BHR43	132	16.2	59.9	192	245	179	86	69	166	213	114	119	110	145	158	124	94	93	81	48
ABCDE	****AgriGold A6533 VT3	130	16.2	56.8	179	226	150	72	78	151	208	108	149	148	146	145	117	109	121	83	29
ABCDEF	Dekalb DKC 62-09 GENVT3P	129	15.7	56.1	177	242	154	76	51	141	216	99	149	143	118	152	121	87	137	83	46
ABCDEF	Augusta A0720 GTCBLLC	128	16.8	57.5	183	233	176	78	85	126	201	109	121	118	135	179	118	97	106	64	55
BCDEFG	Augusta A5658 GTCBLLC	128	15.0	57.6	193	213	152	72	62	165	205	81	143	155	129	135	112	109	130	74	42
BCDEFGH	Warren / Dairyland 9610 3000GT	126	15.3	57.2	206	231	183	76	62	149	208	75	106	134	130	129	106	119	99	75	53
BCDEFGH	AgriGold A6486 VT3Pro	126	15.5	56.9	156	222	150	68	61	173	196	101	125	205	135	147	113	96	86	66	39
BCDEFGHI	Croplan 6125 VT3P	126	15.0	56.9	176	239	167	78	50	168	215	78	121	117	143	150	114	93	112	74	39
CDEFGHIJ	Armor 1262PRO2 RR/VT2PRO	125	16.3	57.9	191	229	160	69	57	156	206	102	128	106	144	137	116	100	115	67	32
DEFGHIJ	AgriGold A6476 VT3PRO	123	15.3	57.6	183	228	181	77	53	116	197	84	117	153	120	140	109	121	94	77	45
EFGHIJ	AgriGold A6517 VT3Pro	121	16.9	56.9	164	254	181	61	49	146	212	90	123	96	135	144	111	88	103	64	34
FGHIJ	LG Seeds LG2602 VT3Pro	120	17.1	56.2	147	239	181	66	50	147	211	99	145	94	128	146	116	88	100	61	27
GHIJ	Mycogen 2D744 SS	118	16.4	58.1	159	223	153	66	36	152	205	84	128	134	137	132	114	102	79	72	37
HIJ	NK Brand N68B 3111	118	16.5	55.5	177	223	201	62	44	153	207	98	122	66	114	137	123	93	83	63	32
IJ	Dyna-Gro 51VC40 VT2P	116	15.8	57.4	170	238	157	60	45	149	206	82	124	119	124	131	116	87	68	70	25
J	NK Brand N72Q 3111	115	16.9	55.9	172	221	156	58	77	131	182	89	120	133	139	126	105	68	98	59	28
J	Croplan 6160 VT3P	115	15.7	58.1	144	229	134	57	57	170	195	83	120	161	113	126	97	75	120	55	25
	Average (bu/a)	**126**	**15.9**	**57.2**	**175**	**233**	**168**	**71**	**65**	**153**	**205**	**94**	**131**	**141**	**132**	**143**	**117**	**99**	**111**	**72**	**39**

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 14 locations.

Hybrids marked with an asterisk (*) and/or (****) were in the top performing group in 2011, 2010, 2009, and/or 2008, respectively.

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

Table 24. Yields of 21 medium-season (114-116) Roundup / stacked corn hybirds in 22 County Standard Tests in Tennessee and Kentucky during 2012.†‡

MS	Brand/Hybrid	Avg. Yld	Avg. Moist	Test ¶ Weight	*Irrg.* KY Calloway	KY Carlisle	Crockett	Decatur	Dyer	Fayette	Franklin	KY Fulton	Gibson	Giles	Hardin	Henderson	Henry	Hickman	Lake	Lauderdale	Loudon	Madison	Obion	Robertson	Shelby	Weakley
		bu/a	%	lbs/bu	4/9§	4/21	3/20	4/16	4/2	4/10	3/27	4/9	4/2	4/3	5/2	3/29	3/30	4/2	4/2	4/12	3/23	3/31	3/29	4/10	4/10	4/18
A	**Dekalb DKC64-69 GENVT3P	134	16.2	57.2	253	132	77	203	156	102	118	118	118	66	177	148	167	113	191	210	84	128	141	96	125	36
A	Croplan 6926 VT3P	134	16.2	59.3	243	82	79	175	158	102	88	162	103	73	166	145	181	115	188	161	108	129	165	115	134	70
A	Augusta A5565 VT3Pro	133	16.4	56.9	243	110	70	179	164	103	118	128	120	38	171	134	169	95	202	189	92	132	160	128	127	54
AB	Armor 1550PRO3 RR/VT3PRO	131	17.0	58.4	252	110	78	154	161	106	122	127	113	70	172	133	166	92	203	205	80	137	158	89	106	54
AB	LG Seeds LG2641 VT3	130	16.6	55.9	254	78	81	184	154	99	142	130	83	67	171	143	160	111	192	210	85	129	139	68	113	62
ABC	Croplan 6960 VT3P	129	16.5	58.2	253	101	78	210	162	98	112	125	92	63	176	128	162	102	187	216	86	118	120	68	107	68
ABCD	**Dekalb DKC66-97 GENVT2P	128	16.1	57.7	254	100	72	173	147	105	112	148	83	43	194	134	152	100	182	222	79	149	115	59	134	60
BCDE	Warren / Dairyland 9614Q	123	17.2	55.8	224	105	66	153	139	108	97	160	126	51	165	129	161	98	170	210	77	111	108	86	124	49
CDEF	Dyna-Gro 54VP81 VT3P	121	16.7	58.5	246	108	63	162	153	86	93	116	104	48	158	137	171	88	178	211	83	125	134	63	97	40
CDEF	NK Brand N78S 3111	121	17.9	55.8	242	89	66	184	151	91	105	117	90	52	174	131	151	93	179	210	78	101	102	98	123	28
DEF	AgriGold A6553 VT2RIB	120	16.5	57.7	241	52	83	165	141	118	119	114	106	30	160	130	150	97	186	199	89	105	140	76	106	33
EFG	LG Seeds LG2636 VT3Pro	118	16.7	56.5	250	110	59	178	151	101	82	138	90	26	178	135	150	107	185	200	72	108	107	38	115	25
EFGH	Mycogen 2V738 SS	117	15.8	57.3	252	96	74	145	157	102	96	113	87	63	139	136	151	100	166	205	86	87	132	46	106	33
EFGHI	Warren / Dairyland 9214SSX	115	16.9	57.6	218	66	80	152	147	89	99	122	71	53	160	136	146	64	185	202	86	124	110	66	125	32
EFGHI	AgriGold A6573 VT3Pro	115	16.9	56.8	248	103	65	177	158	81	66	116	86	49	171	138	150	90	180	185	76	102	92	65	105	25
FGHI	Augusta A7664 VT3	115	17.3	56.4	231	81	66	145	155	93	103	116	83	62	134	134	165	106	169	192	94	85	126	51	103	31
FGHI	Terral 27HR52	114	17.4	57.4	254	74	77	172	148	84	98	81	78	64	164	125	167	86	182	201	84	84	119	41	104	23
GHIJ	Mycogen 2P768 SS	110	16.5	56.9	240	84	49	119	114	78	134	93	92	46	178	125	140	47	182	206	75	99	84	88	124	29
HIJ	NK Brand N77P 3111	109	17.6	55.7	230	70	64	149	148	91	68	105	104	43	158	141	149	81	164	214	73	87	100	28	103	26
IJ	Terral 26HR23	108	16.6	58.8	226	87	50	154	142	101	88	93	78	27	147	132	150	65	194	200	75	82	96	53	114	15
J	Warren / Dairyland 7015 HX/F	105	18.4	55.8	227	20	59	150	151	102	129	27	99	54	115	120	135	87	168	188	71	87	137	44	110	25
	Average (bu/a)	**120**	**16.8**	**57.2**	**242**	**88**	**69**	**166**	**150**	**97**	**104**	**117**	**96**	**52**	**163**	**134**	**157**	**92**	**183**	**202**	**82**	**110**	**123**	**70**	**115**	**39**

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 19 locations.

Hybrids marked with an asterisk (**) were in the top performing group in 2011 and 2010.

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

Table 25. Yields of 10 full-season (>116 DAP) Roundup / stacked corn hybrids in 16 County Standard Tests in Tennessee and Kentucky during 2012.†‡

MS	Brand/Hybrid	Avg. Yld	Avg. Moist	Test ¶ Weight	*Irrg.* KY Calloway	Coffee	Decatur	Dyer	Fayette	Franklin	KY Fulton	Gibson	Henderson	Lake	Lauderdale	Loudon	Obion	Robertson	Shelby	Weakley
		bu/a	%	lbs/bu	4/9 §	4/4	4/16	4/2	4/10	3/27	4/9	4/2	3/29	4/11	4/12	3/23	3/29	4/9	4/10	4/3
A	Dekalb DKC 67-88 GENVT3P	133	18.1	57.4	226	22	172	192	125	84	144	116	183	214	207	83	131	104	102	19
A	AgriGold A6679 VT2RIB	129	18.1	57.9	206	17	168	175	106	87	145	105	177	229	196	69	147	86	122	23
A	**Augusta A6867 GTCBLLC	128	17.0	58.2	211	44	147	181	96	90	126	123	172	207	193	81	127	113	119	20
AB	Croplan 8410 VT3P	128	16.8	57.7	227	10	189	98 ††	120	78	166	125	199	218	131	88	149	110	109	27
AB	Dyna-Gro 57VP51 VT3P	126	16.9	56.7	235	21	171	162	121	82	103	121	179	234	203	73	133	58	116	12
AB	AgriGold A6659 VT3Pro	124	17.0	57.0	232	17	153	164	89	87	100	120	183	238	205	76	135	75	97	15
AB	Mycogen 2R818 HX1/HXRW/RR/LL	124	16.7	57.1	199	40	165	181	106	79	116	105	170	207	203	74	134	81	101	21
BC	Armor 1655PRO2 RR/VT2PRO	117	17.5	57.8	210	29	175	169	101	81	118	112	173	188	144	87	139	37	86	19
C	Terral 28HR29	112	19.5	58.1	222	6	154	154	76	47	105	94	169	220	192	67	116	76	96	3
C	Terral 28HR20	112	18.5	58.3	235	6	136	174	88	67	128	99	195	220	159	66	104	25	85	3
	Average (bu/a)	**123**	**17.6**	**57.6**	**220**	**21**	**163**	**165**	**103**	**78**	**125**	**112**	**180**	**217**	**183**	**76**	**131**	**76**	**103**	**16**

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.

Hybrid marked with an asterisk(**) was in the top performing group in 2011 and 2010.

†† Denotes a hybrid in the Dyer plot that sustained 50% green snap prior to ear development, resulting in significant yield reduction.

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

Table 26. Overall average yields, moistures, and test weights of 20 early-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2012.†

		Avg. of CST and REC Tests			CST Tests			REC Tests		
Brand	**Hybrid §**	**Avg. Yield**	**Moisture**	**Test Weight**	**Avg. Yield**	**Moisture**	**Test Weight**	**Avg. Yield (n=4)**	**Moisture (n=4)**	**Test Weight (n=1)**
		bu/a	%	lbs/bu	bu/a	%	lbs/bu	bu/a	%	lbs/bu
Warren / Dairyland	9111SSX (RR/LL/CB/RW)	151	15.3	57.6	133	15.5	57.4	170	15.2	57.7
Mycogen	2V715 (RR/LL/CB/RW)	150	15.1	56.8	138	15.5	56.4	163	14.7	57.1
Warren / Dairyland	9212Q (RR/LL/CB/RW)	148	15.1	56.4	135	15.6	56.2	161	14.6	56.5
LG Seeds	LG 2555VT3	145	15.8	57.5	138	16.3	56.4	151	15.3	58.6
Augusta	A5658GTCBLL	142	14.9	58.8	128	15.0	57.6	157	14.8	60.1
Agrigold	A6533 VT3 & VT2RIB	142	15.7	58.3	130	16.2	56.8	154	15.2	59.9
DeKalb	DKC62-09 GENVT3P	142	15.5	58.3	129	15.7	56.1	154	15.4	60.4
DeKalb	DKC61-88 GENVT3P	140	15.2	58.3	134	15.4	57.6	147	15.1	58.9
Warren / Dairyland	9610 (RR/LL/CB/RW)	138	15.1	58.2	126	15.3	57.2	151	14.8	59.2
Armor	1010PRO2	138	14.9	58.4	134	14.8	58.0	143	14.9	58.8
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	138	15.9	61.0	132	16.2	59.9	144	15.5	62.1
Augusta	A0720 GTCBLL & CBLL	138	15.5	58.9	128	16.8	57.5	147	14.2	60.3
NK Brand	N72Q-3111 (GT/LL/CB/RW/VIP)	136	16.2	56.6	115	16.9	55.9	156	15.6	57.4
Agrigold	A6486 VT3Pro & VT2RIB	135	15.3	57.6	126	15.5	56.9	145	15.0	58.3
Armor	1262PRO2	135	16.1	59.0	125	16.3	57.9	145	15.8	60.2
Agrigold	A6517VT3Pro	134	16.3	57.7	121	16.9	56.9	148	15.7	58.5
Agrigold	A6476VT3Pro	134	15.1	57.8	123	15.3	57.6	145	15.0	57.9
NK Brand	N68B-3111 (GT/LL/CB/RW/VIP)	133	16.1	56.1	118	16.5	55.5	149	15.7	56.6
Croplan	6160VT3P	130	15.8	59.3	115	15.7	58.1	145	15.8	60.5
LG Seeds	LG 2602VT3Pro	129	16.6	56.9	120	17.1	56.2	138	16.1	57.5
Average		**139**	**15.6**	**58.0**	**127**	**15.9**	**57.1**	**151**	**15.2**	**58.8**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Table 27. Overall average yields, moistures, and test weights of 17 medium-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2012.†

		Avg. of CST and REC Tests			CST Tests			REC Tests		
Brand	**Hybrid §**	**Avg. Yield**	**Moisture**	**Test Weight**	**Avg. Yield**	**Moisture**	**Test Weight**	**Avg. Yield (n=4)**	**Moisture (n=4)**	**Test Weight (n=1)**
		bu/a	%	lbs/bu	bu/a	%	lbs/bu	bu/a	%	lbs/bu
DeKalb	DKC64-69 GENVT3P	151	16.1	58.2	134	16.2	57.2	168	16.0	59.2
LG Seeds	LG 2641VT3	148	16.5	57.2	130	16.6	55.9	167	16.3	58.6
Croplan	6926VT3P	144	16.1	60.7	134	16.2	59.3	155	15.9	62.0
Augusta	A5565VT3Pro	144	16.2	58.8	133	16.4	56.9	154	16.0	60.8
DeKalb	DKC66-97 GENVT2P	143	16.1	58.8	128	16.1	57.7	159	16.0	59.9
Croplan	6960VT3P	142	16.4	59.5	129	16.5	58.2	156	16.2	60.8
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	142	17.3	56.1	121	17.9	55.8	163	16.8	56.4
Dyna-Gro	D54VP81 (VT3P)	142	16.4	59.7	121	16.7	58.5	162	16.2	60.9
Armor	1550PRO3	141	16.5	59.7	131	17.0	58.4	151	16.1	61.0
Warren / Dairyland	9614Q (RR/LL/CB/RW)	138	16.8	55.6	123	17.2	55.8	153	16.3	55.3
Warren / Dairyland	9214Q (RR/LL/CB/RW)	137	16.6	58.3	115	16.9	57.6	158	16.2	58.9
Mycogen	2V738 (RR/LL/CB/RW)	134	15.5	58.1	117	15.8	57.3	151	15.2	58.9
Augusta	A7664VT3	134	17.0	57.6	115	17.3	56.4	153	16.8	58.8
LG Seeds	LG 2636VT3Pro	132	16.2	57.4	118	16.7	56.5	146	15.7	58.3
Terral-REV Brand	26HR23 (RR/LL/HX1)	129	16.1	60.0	108	16.6	58.8	151	15.5	61.3
Agrigold	A6573VT3P	128	16.3	57.7	115	16.9	56.8	141	15.7	58.6
Warren / Dairyland	7015 (RR/LL/CB)	110	17.5	56.6	105	18.4	55.8	116	16.6	57.5
Average		**138**	**16.4**	**58.2**	**122**	**16.8**	**57.2**	**153**	**16.1**	**59.2**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

Table 28. 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 2012.†

		Avg. of CST and REC Tests			CST Tests			REC Tests		
Brand	**Hybrid §**	**Avg. Yield**	**Moisture**	**Test Weight**	**Avg. Yield**	**Moisture**	**Test Weight**	**Avg. Yield (n=3)**	**Moisture (n=3)**	**Test Weight (n=1)**
		bu/a	%	lbs/bu	bu/a	%	lbs/bu	bu/a	%	lbs/bu
Augusta	A6867 GtCBLL & CBLL	152	17.1	59.5	128	17.0	58.2	176	17.2	60.9
Croplan	8410VT3P	147	16.7	59.3	128	16.8	57.7	166	16.6	60.9
Dyna-Gro	D57VP51 (VT3P)	146	16.6	58.7	126	16.9	56.7	165	16.2	60.7
Terral-REV Brand	28HR20 (RR/LL/HX1)	140	17.6	60.2	112	18.5	58.3	168	16.7	62.0
Terral-REV Brand	28HR29 (RR/LL/HX1)	132	18.6	59.1	112	19.5	58.1	152	17.8	60.1
Average		**143**	**17.3**	**59.4**	**121**	**17.7**	**57.8**	**165**	**16.9**	**60.9**

†All Yields are adjusted to 15.5% moisture.

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Table 29. Characteristics, as described by the seed company, of corn hybrids evaluated in yield tests in Tennessee during 2012.†

Early-Season Corn Hybrid Entries		Grain		Herbicide		Released or	Seed
Brand	Hybrid §	Color	Maturity	Tolerance	BT Gene	Experimental	Treatment
Agrigold	A6476VT3Pro	Y	111	RR	VT3Pro	R	Poncho 500, Votivo
Agrigold	A6486VT2RIB	Y	111	RR	VT2Pro	R	Poncho 500, Votivo
Agrigold	A6489VT3	Y	112	RR2	VT3	R	Poncho 500, Votivo
Agrigold	A6517VT3Pro	Y	113	RR	VT3Pro	R	Poncho 500, Votivo
Agrigold	A6533VT2RIB	Y	113	RR2	VT2Pro	R	Poncho 500, Votivo
Agrigold	A6553VT2RIB	Y	113	RR	VT2Pro	R	Poncho 500, Votivo
Armor	1010PRO2	Y	110	RR2	VT2Pro	R	Acceleron
Armor	1133PRO3	Y	111	RR2	VT3Pro	R	Acceleron
Armor	1161PRO2	Y	111	RR2	VT2Pro	R	Acceleron
Armor	1262PRO2	Y	112	RR2	VT2Pro	R	Acceleron
Armor	1111PRO3	Y	111	RR2	VT3Pro	R	Acceleron
Augusta	A0606GTCBLL	Y	111	GT/LL	CB	R	Cruiser Extreme
Augusta	A0720CBLL	Y	112	LL	CB	R	Cruiser Extreme
Augusta	A5262GT3000	Y	112	GT/LL	CB/RW	R	Cruiser Extreme
Augusta	A5362VT3Pro	Y	112	RR	CB/RW	R	Cruiser Extreme
Augusta	A5363VT3Pro	Y	113	RR	CB/RW	R	Cruiser Extreme
Augusta	A5461GTCBLL	Y	111	GT/LL	CB	R	Cruiser Extreme
Augusta	A5560VT3Pro	Y	110	RR	YG,CB,C,RW	R	Cruiser Extreme
Augusta	A5658GTCBLL	Y	108	GT/LL	CB	R	Cruiser Extreme
Beck's	6175AMX (RR/LL/CB/RW)	Y	112	RR/LL	CB/RW	E	Escalate
Beck's	6272HR (RR/LL/CB)	Y	113	RR/LL	CB	E	Escalate
Beck's	Phoenix Brand 6442A4 (RR/LL/CB/RW/BL)	Y	113	RR/LL	CB/RW/BL	R	Escalate
Caverndale Farms	CF 748 3000GT (LL/Bt/RW)	Y	107	RR/LL	Bt11/RW	R	Cruiser 250
Caverndale Farms	CF 803 3000GT (LL/Bt/RW)	Y	111	RR/LL	Bt11/RW	R	Cruiser 250
Croplan	6160VT3P	Y	112	RR	YG,CB,C,RW	R	Cruiser Extreme 250
Croplan	6640VT3P	Y	113	RR	YG,CB,C,RW	R	Cruiser Extreme 250
Warren / Dairyland	1809	Y	109	---	---	R	Cruiser Maxx 250
Warren / Dairyland	1013	Y	113	---	---	R	Cruiser Maxx 250
Warren / Dairyland	9111SSX (RR/LL/CB/RW)	Y	112	RR/LL	SmartStax	E	Avicta Complete
Warren / Dairyland	9212Q (RR/LL/CB/RW)	Y	112	RR/LL	HX1 / HXRW	R	Cruiser Maxx 250
Warren / Dairyland	9610 (RR/LL/CB/RW)	Y	110	RR/LL	CB/RW	R	Cruiser Maxx 250
DeKalb	DKC61-88 GENVT3P	Y	111	RR	VT3Pro	R	Poncho 500, Votivo
DeKalb	DKC62-09 GENVT3P	Y	112	RR	VT3Pro	R	Poncho 500, Votivo
DeKalb	DKC63-87 GENVT2P	Y	113	RR	VT2Pro	R	Poncho 500, Votivo
Delta Grow	2688 GTCBLL	Y	112	RR/LL	CB	R	Maxim, Acetellic
Dyna-Gro	D51VP32 (VT3P)	Y	111	RR	VT3Pro	R	Acceleron P500
Dyna-Gro	D52VC91 (VT3P)	Y	112	RR	VT3Pro	R	Acceleron P500
Dyna-Gro	D52VP20 (VT3P)	Y	112	RR	VT3Pro	R	Acceleron P250
Great Lakes	6232VT3Pro	Y	112	RR	VT3Pro	R	Acceleron P500 + Votivo
Great Lakes	6354G3VT3	Y	113	RR	VT3Pro	R	Acceleron P500 + Votivo
LG Seeds	LG 2555VT3	Y	110	RR	VT3	R	Poncho 500, Votivo
LG Seeds	LG 2602VT3Pro	Y	112	RR	VT3Pro	R	Poncho 500, Votivo
Mycogen	2V715 (RR/LL/CB/RW)	Y	112	RR/LL	HX1 / HXRW	R	Avicta Complete
NK Brand	N68B-3111 (GT/LL/CB/RW/VIP)	Y	111	GT/LL	CB/RW/VIP	R	Maxim, Apron, Dynasty, Quattro, Cruiser
NK Brand	N72Q-3111 (GT/LL/CB/RW/VIP)	Y	113	GT/LL	CB/RW/VIP	R	Maxim, Apron, Dynasty, Quattro, Cruiser
Steyer	11204 VT3Pro	Y	112	RR	VT3Pro	R	Maxim, Apron, Dynasty, Quattro, Cruiser

Table 29 (continued)

Steyer	11302 VT3Pro	Y	113	RR	VT3Pro	R	Maxim, Apron, Dynasty, Quattro, Cruiser
Terral-REV Brand	21HR33 (RR/LL/HX1)	Y	112	RR/LL	HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	Y	112	RR/LL	HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	23RE73 (RR/LL/HXX)	Y	112	RR/LL	HXX	R	Cruiser 250, Apron, Maxim

Medium-Season Corn Hybrid Entries Brand	Hybrid §	Grain Color	Maturity	Herbicide Tolerance	BT Gene	Released or Experimental	Seed Treatment
Agrigold	A6573VT3Pro	Y	114	RR	VT3Pro	R	Poncho 500, Votivo
Agrigold	A6632VT2RIB	Y	115	RR	VT2Pro	R	Poncho 500, Votivo
Agrigold	A6659VT3Pro	Y	116	RR	VT3Pro	R	Poncho 500, Votivo
Agrigold	A6679VT2RIB	Y	116	RR	VT2Pro	R	Vortex,Allegiance,Trilex,Poncho500,Votivo
AgVenture	RL8899HB (RR/LL/CB)	Y	115	RR/LL	CB	R	Poncho 500
Armor	1550PRO3	Y	115	RR2	VT3Pro	R	Acceleron
Armor	1330PRO3	Y	114	RR2	VT3Pro	R	Acceleron
Augusta	A5565VT3Pro	Y	115	RR	CB/RW	R	Cruiser Extreme
Augusta	A7664VT3	Y	114	RR	CB,RW	R	Cruiser Extreme
Beck's	6626AMX (RR/CB/RW)	Y	114	RR	CB/RW	E	Escalate
Beck's	Phoenix Brand 6948A3 (RR/LL/CB/RW)	Y	115	RR/LL	CB/RW	R	Escalate
Croplan	6926VT3P	Y	114	RR	YG,CB,C,RW	R	Cruiser Extreme 250
Croplan	6960VT3P	Y	114	RR	YG,CB,C,RW	R	Cruiser Extreme 250
Warren / Dairyland	7015 (RR/LL/CB)	Y	115	RR/LL	HX1	R	Cruiser Maxx 250
Warren / Dairyland	9214Q (RR/LL/CB/RW)	Y	114	RR/LL	HX1 / HXRW	R	Avicta Complete
Warren / Dairyland	9614Q (RR/LL/CB/RW)	Y	114	RR/LL	HX1 / HXRW	R	Cruiser Maxx 250
DeKalb	DKC64-69 GENVT3P	Y	114	RR	VT3Pro	R	Poncho 500, Votivo
DeKalb	DKC65-67 GENVT2P	Y	115	RR	VT2Pro	R	Poncho 500, Votivo
DeKalb	DKC66-86 GENVT3P	Y	115	RR	VT3Pro	R	Poncho 500, Votivo
DeKalb	DKC66-97 GENVT2P	Y	116	RR	VT2Pro	R	Poncho 500, Votivo
Delta Grow	2888 GTCBLL	Y	115	RR/LL	CB	R	Maxim, Acetellic
Delta Grow	3788 GTCBLL	Y	114	RR/LL	CB	R	Maxim, Acetellic
Delta Grow	4725 GTCBLL Viptera	Y	115	RR/LL	CB / Vitpera	R	Maxim, Acetellic
Delta Grow	6488 GTCBLL	Y	116	RR/LL	CB	R	Maxim, Acetellic
Dyna-Gro	D54VP81 (VT3P)	Y	114	RR	VT3Pro	R	Acceleron P250
Golden Acres	26V21 (VT3Pro)	Y	115	RR	VT3Pro	R	Acceleron P250
Great Lakes	6530VT3Pro	Y	115	RR	VT3Pro	R	Acceleron P500 + Votivo
LG Seeds	LG 2636VT3Pro	Y	114	RR	VT3Pro	R	Poncho 500, Votivo
LG Seeds	LG 2641VT3	Y	114	RR	VT3	R	Poncho 500, Votivo
Mycogen	2V738 (RR/LL/CB/RW)	Y	114	RR/LL	HX1 / HXRW	R	Avicta Complete
NK Brand	N74R-3000GT (LL/CB/RW)	Y	114	GT/LL	CB/RW	R	Maxim, Apron, Dynasty, Quattro, Cruiser
NK Brand	N78S-3111 (GT/LL/CB/RW/VIP)	Y	116	RR/LL	CB/RW/VIP	R	Maxim, Apron, Dynasty, Quattro, Cruiser
Steyer	11406 VT3Pro	Y	114	RR	VT3Pro	R	Maxim, Apron, Dynasty, Quattro, Cruiser
Steyer	X21142TM VT3PRO	Y	114	RR	VT3Pro	E	Maxim, Apron, Dynasty, Quattro, Cruiser
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	Y	114	RR/LL	YGCB / HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	25BHR63 (RR/LL/CB/HX1)	Y	116	RR/LL	YGCB / HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	26HR23 (RR/LL/HX1)	Y	116	RR/LL	HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	26R60 (RR)	Y	116	RR2	---	R	Cruiser 250, Apron, Maxim

Table 29 (continued)

Full-Season Corn Hybrid Entries		Grain		Herbicide		Released or	Seed
Brand	**Hybrid §**	**Color**	**Maturity**	**Tolerance**	**BT Gene**	**Experimental**	**Treatment**
Augusta	A6867CBLL	Y	117	LL	CB	R	Cruiser Extreme
Caverndale Farms	CF 864 VT2PRO RIB (RR)	Y	117	RR	VT2Pro	R	Acceleron
Caverndale Farms	CF 908 3000GT (LL/Bt/RW)	Y	118	RR/LL	Bt11/RW	R	Acceleron
Croplan	8410VT3P	Y	117	RR	YG,CB,C,RW	R	Cruiser Extreme 250
Croplan	8621VT3P	Y	118	RR	YG,CB,C,RW	R	Cruiser Extreme 250
Croplan	8621VT3P (FILL)	Y	118	RR	YG,CB,C,RW	R	Cruiser Extreme 250
DeKalb	DKC67-57 GENVT3P	Y	117	RR	VT3Pro	R	Poncho 500, Votivo
DeKalb	DKC69-29 GENVT3P	Y	119	RR	VT3Pro	R	Poncho 500, Votivo
Dyna-Gro	D57VP51 (VT3P)	Y	117	RR	VT3Pro	R	Acceleron P250
Golden Acres	27V01 (VT3Pro)	Y	117	RR	VT3Pro	R	Acceleron P250
Masters Choice	MCT 6751 (RR)	Y	117	GT	---	R	Cruiser Maxx 250
Steyer	X21192TM VT3PRO	Y	114	RR	VT3Pro	E	Maxim, Apron, Dynasty, Quattro, Cruiser
Terral-REV Brand	27HR52 (RR/LL/HX1)	Y	117	RR/LL	HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	27HR83 (RR/LL/HX1)	Y	117	RR/LL	HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	28HR20 (RR/LL/HX1)	Y	118	RR2/LL	HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	28HR29 (RR/LL/HX1)	Y	118	RR/LL	HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	28R10 (RR)	Y	118	RR	---	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	29HR13 (RR/LL/HX1)	Y	119	RR/LL	HX1	R	Cruiser 250, Apron, Maxim
TN Exp	TN 1103W	W	Full	---	---	E	Dividend XL, Cruiser 250
TN Exp	TN 1201	Y	Full	---	---	E	Dividend XL, Cruiser 250
TN Exp	TN 1202	Y	Full	---	---	E	Dividend XL, Cruiser 250
TN Exp	TN 1203W	W	Full	---	---	E	Dividend XL, Cruiser 250

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

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name.

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

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

VIP = Viptera, contains a gene for resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.

RIB = Refuge In Bag, contains a percentage of non BT protected corn in order to conform to insect refuge regulations.

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

LL = contains a gene for tolerance to glufosinate

W = white grain

VT2P, VT2Pro, PRO2 = contains genes for corn borer, earworm, armyworm and glyphosate resistance

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

VT3P, VT3Pro, PRO3 = contains genes for corn borer, rootworm, earworm, armyworm and glyphosate resistance

Table 30. Contact information for corn hybrid seed companies evaluated in yield tests in Tennessee during 2012

Company	Contact	Phone	Email	Web site	Address
Agrigold Hybrids	Lee Herring Drew Snider	270-399-5558 270-978-9200		www.agrigold.com	1013 Ballard Ln, Madisonville, KY 42431 505 Wells Purdom Dr, Almo, KY 42020
AgVenture	Jamie Wade	270-293-7848	jwade@agventuredm.com	www.agventure.com	207 North Seventh Street, P.O. Box 29 Kentland, IN 47951
Armor Seed	Lane Dill	877-336-2290 901-233-0274	lanedill@armorseed.com	www.armorseed.com	2528 Alexander Drive, Jonesboro, AR 72401 P.O. Box 178, Fisher, AR 72429
Augusta Seed Corporation	Dennis Rawley Matt Rawley	540-886-6055 540-255-5902	augustaseed@aol.com		473 Tisdale Farm Ln, Stuanton, VA 24401
Beck's Superior Hybrids (Beck's & XL Brand)	Doug Clouser	800-937-2325	dougc@beckshybrids.com	www.beckshybrids.com	6767 East 276th Street, Atlanta, IN 46031
Caverndale Farms	Barry Welty	859-236-2150	bwelty@kywimax.com	www.caverndalefarms.com	1921 Bluegrass Pike, Danville, KY 40422
Croplan Genetics	Jesse Witt Keith Saum Jim Payne Eric Kennedy	256-221-5932 731-610-7006 901-652-0903 812-350-9025	JBWitt@landolakes.com kdsaum@landolakes.com jpayne@ourcoop.com	www.croplangenetics.com www.ourcoop.com	Consolidated Ag Products (Agriliance) and Tennessee Farmers Co-op Locations
Warren / Dairyland Seed Co	Lanny Warren	731-234-2921	lanny.warren@charter.net	www.Warren / Dairylandseed	208 South Thompson St., Union City, TN 38261
Monsanto (Dekalb)	Larry Ganann	901-326-7140	larry.w.ganann@monsanto.com	www.monsanto.com www.dekalb.com	1404 Lake Dr, Cordova, TN 38106
Delta Grow Seed	Lee Hughes	800-530-7933	leehughes19@hotmail.com	www.deltagrow.com	P O Box 219, England, AR 72046
Crop Production Services (Dyna-Gro)	Todd Theobald	731-885-1212	todd.theobald@cpsagu.com	www.dynagroseed.com	710 South First Street, Union City, TN 38261
Golden Acres Genetics	Chase Milligan	870-208-4424	chase@progenyag.com	www.gaseed.com	205 Old Hewitt Road Waco, TX 76712
Great Lakes Hybrids	Phil Brunner	800-257-7333	phil.brunner@greatlakeshybrids.com	www.greatlakeshybrids.com	9915 W. M-21 Hwy, Ovid, MI 48866
LG Seeds		931-485-7333		www.lgseeds.com	Security Seeds & Chemical Clarksville, TN
Masters Choice	Ryan Carter	618-833-6552	ryan@seedcorn.com	www.seedcorn.com	3010 St. Rt. 146, Anna, IL 62906
Mycogen Seed	Ron Prinz	270-217-3383	rhprinz@dow.com	www.dowagro.com/mycogen	225 Peachtree Dr., Benton, KY 42025
NK Brand (Syngenta)	Mike Saxton	800-445-0956	mike.saxton@syngenta.com	www.nk-us.com	P.O. Box 959, Minneapolis, MN 55440
Steyer Seeds	Mike Phillips	859-516-3935	mikeandsteyer@gmail.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	318-282-3681	lmullen@terralseed.com	www.terralseed.com	P O Box 826, Lake Providence, LA 71254