

Corn Grain Hybrid Tests in Tennessee

2013

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

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

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<u>County</u>	<u>Producer</u>	<u>Agent</u>
<u>Early Season Corn Hybrid Test (RR and Stacked)</u>		
<i>Ballard, KY</i>	JAP Farms	Bob Middleton
<i>Calloway, KY</i>	Murdock & Sons	Tim Lax
<i>Carlisle, KY</i>	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 & Joey McNabb	Jeff Via
Franklin/Grundy	Bobby Woodall	Ed Burns/Creig Kimbro
<i>Fulton, KY</i>	Johnson Linder	Ben Mullins
Gibson	Denton Clay Parkins	Philip Shelby
Giles	Pat Sulcer	Kevin Rose
Hardin	Ricky Blakenship	Brian White
Henderson	Billy Hatchett	Ron Blair
Henry (1)	Caleb Brannon Farms	Ranson Goodman
Henry (2)	Tosh Farms	Ranson Goodman
Lake	Terry Petty	Greg Allen
Loudon	David Richesin	John Goddard
Madison	Chris Street	Jake Mallard
Montgomery	Steve Joiner/Michael Suiter	Rusty Evans
Obion	David & Scott Wisener	Tim Smith
Robertson	T. C. Groves	Paul Hart
Weakley (1)	Bob Grooms	Jeff Lannom
Weakley (2)	David Oliver	Jeff Lannom

Medium Season Corn Hybrid Test (RR & Stacked)

<i>Calloway, KY</i>	Murdock & Sons	Tim Lax
Cannon	Johnny & Judy Powell	Bruce Steelman
<i>Carlisle, KY</i>	Curtsinger Farms	Bob Middleton
Coffee	L.A. Teal & Mike England	Steve Harris
Decatur	Stacy Vise	Amanda Mathenia
Dyer	Carl & Marvin Schultz	Tim Campbell
Fayette (1)	Ames Plantation	Jeff Via
Fayette (2)	Mark McNabb	Jeff Via
Franklin/Grundy	Bobby Woodall	Ed Burns/Creig Kimbro
<i>Fulton, KY</i>	Johnson Linder	Ben Mullins
Gibson	Denton Clay Parkins	Philip Shelby
Giles	Jason Birdsong	Kevin Rose
Haywood	Chester King	Walter Battle
Henderson	Billy Hatchett	Ron Blair
Henry (1)	Caleb Brannon Farms	Ranson Goodman

Henry (2)	Tosh Farms	Ranson Goodman
Hickman	Clint and Claude Callicott	Troy Dugger
Madison	Matt Griggs	Jake Mallard
<i>McCracken, KY</i>	Seaton Farms	Bob Middleton
Perry	Craig Byrd	Amanda Mathenia
Robertson	Freddie Edwards	Paul Hart
Shelby	Jerry Tolbert	Becky Muller
Wayne	Duren Farms	Brandon Mitchell

Full Season Corn Hybrid Test (RR & Stacked)

<i>Calloway, KY</i>	Murdock & Sons	Tim Lax
Cannon	Johnny & Judy Powell	Bruce Steelman
Coffee	L.A. Teal & Mike England	Steve Harris
Dyer	Carl & Marvin Schultz	Tim Campbell
Fayette (1)	Ames Plantation	Jeff Via
Fayette (2)	Mark McNabb	Jeff Via
Franklin/Grundy	Bobby Woodall	Ed Burns/Creig Kimbro
<i>Fulton, KY</i>	Johnson Linder	Ben Mullins
Gibson	Denton Clay Parkins	Philip Shelby
Giles	Jason Birdsong	Kevin Rose
Henderson	Billy Hatchet	Ron Blair
Henry (1)	Jarred & Autum Barker	Ranson Goodman
Henry (2)	Tosh Farms	Ranson Goodman
Madison	David Martin	Jake Mallard
Robertson	Samuel Osborne	Paul Hart
Shelby	Jerry Tolbert	Becky Muller

Table of Contents

Experimental Procedures	6
Interpretation of Data	7
Results	7
AgResearch & Education Center Information	9
AgResearch & Education Center Tests	
Early-season Hybrids	10
Medium-season Hybrids	17
Full-season Hybrids	24
County Standard Tests	
Early-season RR Stacked Hybrids	28
Medium-season RR Stacked Hybrids	29
Full-season RR Stacked Hybrids	30
Common Hybrids in County Standard and AgResearch and Education Center Tests	
Early-season Hybrids	31
Medium-season Hybrids	32
Full-season Hybrids	33
Corn Hybrid Characteristics	34
Seed Company Contact Information	37

CORN GRAIN VARIETY TESTS IN TENNESSEE

AGRESEARCH AND EDUCATION CENTER TESTS

2013

Experimental Procedures:

AgResearch 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) AgResearch 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 AgResearch 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.

County Standard Tests: The County Standard Corn Tests were conducted in 25 counties in Tennessee, and four 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 (RR) and 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 2013 growing season was characterized by a cool, wet spring which delayed planting and mandated replanting in some flood-prone areas. By mid-May, planting was around two weeks behind the five-year average. Wet conditions throughout the summer were favorable for growth with eighty-seven percent of the crop rated good to excellent in mid-August. Although corn harvest was delayed compared to last year and the five year average, yields were reported as well above average. By the end of October, 84% of corn for grain had been harvested. According to the Tennessee Agricultural Statistics Service, producers planted 900,000 acres this year, a decrease of 130,000 from 2012 and harvested 835,000 acres, down 125,000 acres from last season. Corn grain production for 2013 is projected to be 130.3 million bushels, an increase of 60 percent from the previous year.

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).

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 2013 **AgResearch and Education Center (REC)** tests in Tennessee. There were 49 hybrids in the early- (Tables 2-7), 43 in the medium- (Tables 8-13), and 17 hybrids in the full-season (Tables 14-19). The 109 hybrids represent 18 different brands (Table 26). The **County Standard Tests (CST)** consisted of a early-season glyphosate resistant and stacked trait test (22 hybrids at 19 locations, Table 20), a medium-season glyphosate resistant and stacked trait test (18 hybrids at 19 locations, Table 21), and a full-season glyphosate resistant and stacked trait test (12 hybrids at 12 locations, Table 22) for a total of 52 hybrids. In addition to Tennessee counties, the County Standard Tests involved Ballard, Carlisle, McCracken, and Fulton counties in Western Kentucky. Common to both the REC and CST tests were 21 early-season, 15 medium-season, and nine full-season hybrids (Tables 23-25). Similar to the REC tests, in the CST all hybrids were placed in the maturity test for which they fit regardless of other traits associated with each entry.

One hundred three of the 109 hybrids in the 2013 REC tests have a Bt gene for Corn Borer resistance (denoted by Bt, YG, CB, YGCB, HX, VT2, VT3); 54 have a gene for Corn Root Worm resistance (denoted by RW, VT3); 106 have a Roundup Ready gene for tolerance to glyphosate herbicide (denoted by R, RR, RR2,GT); 43 have a gene for tolerance to Liberty (glufosinate) herbicide (denoted by LL); five hybrids are conventional and contain no transgenes; three hybrids contain a single transgene; 102 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 (CB), rootworm (RW), earworm (EW) and armyworm (AW). **VIP** or **Viptera** designation denotes resistance to corn earworm, black cutworm, western bean cutworm, dingy cutworm and stalk borers. The newest designation is **SSX** or **SmartStax**. The **SSX** indicates that the hybrid has RW (2), EW, AW, CB insect resistance genes plus RR2 and LL herbicide tolerance genes for a total of 7 genes stacked.

Irrigated vs. Non-irrigated Yields. Duplicate tests were conducted at the Milan and Highland Rim AgResearch and Education Centers with and without irrigation. In a year of adequate rainfall and warm temperatures during critical stages of the growing season, the average differences in yields across hybrids receiving irrigation versus non-irrigation at Milan were small: 3 bu/a for early-season hybrids (Table 2), 5 bu/a for medium-season hybrids (Table 8), and 14 bu/a for full-season hybrids (Table 14). Similarly at Highland Rim average differences in yields across hybrids receiving irrigation versus non-irrigation were small; 8 bu/a for early-season hybrids (Table 4), but showed greater differences in the medium and full-season hybrids, 24 bu/a for medium-season hybrids (Table 11), and 28 bu/a for full-season hybrids (Table 14). At Highland Rim, non-irrigated plot averages were higher for than irrigated plot averages in the medium and full tests. **Some of the difference in the full-season test at Highland Rim is likely due to the late re-planting (May 29) of the irrigated test.**

Table 1. Location information from AgResearch and Education Centers where the corn hybrid tests were conducted in Tennessee in 2013.

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Early Season Corn Hybrids					
East Tennessee	Knoxville	April 22, 2013	September 16, 2013	28,099	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 17, 2013	September 16, 2013	29,667	Dickson Silt Loam
" " (non-irrigated)	"	April 17, 2013	September 23, 2013	26,709	Staser Silt Loam
Milan (irrigated)	Milan	April 23, 2013	September 18, 2013	-	Loring, Memphis Silt Loam
" (non-irrigated)	"	April 22, 2013	September 17, 2013	-	Grenada Silt Loam
Ames Plantation	Grand Junction	April 25, 2013	September 26, 2013	-	Lexington Silt Loam
Agricenter International	Memphis	April 30, 2013	September 23, 2013	-	Falaya Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Medium Season Corn Hybrids					
East Tennessee	Knoxville	April 22, 2013	September 16, 2013	26,574	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	April 17, 2013	September 24, 2013	28,510	Mountview Silt Loam
" " (non-irrigated)	"	April 17, 2013	September 24, 2013	27,346	Mountview Silt Loam
Milan (irrigated)	Milan	April 23, 2013	September 27, 2013	-	Loring, Memphis Silt Loam
" (non-irrigated)	"	April 22, 2013	September 17, 2013	-	Grenada Silt Loam
Ames Plantation	Grand Junction	April 25, 2013	September 26, 2013	-	Lexington Silt Loam
Agricenter International	Memphis	April 30, 2013	September 23, 2013	-	Falaya Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Full Season Corn Hybrids					
East Tennessee	Knoxville	April 22, 2013	September 17, 2013	27,550	Sequatchie Silt Loam
Highland Rim (irrigated)	Springfield	May 29, 2013	October 18, 2013	30,245	Sango Silt Loam
" " (non-irrigated)	"	April 17, 2013	September 24, 2013	26,415	Mountview Silt Loam
Milan (irrigated)	Milan	April 23, 2013	October 9, 2013	-	Grenada Silt Loam
" (non-irrigated)	"	April 22, 2013	September 27, 2013	-	Grenada Silt Loam
Ames Plantation	Grand Junction	April 25, 2013	September 26, 2013	-	Lexington Silt Loam

Table 2. Mean yields of 49 early-season (<114 DAP) corn hybrids evaluated in seven environments in Tennessee during 2013.

Brand	Hybrid \$	Avg. Yield [†]	Springfield		Milan		AgCenter		
		± Std Err (n=7)	Knoxville	(Irr.) (Non-Irr.)	(Irr.) (Non-Irr.)	Ames	Memphis		
----- bu/a -----									
Augusta	A5658GTCBLL	229 ± 5	222	187	228	263	265	204	232
Croplan	6640VT3P	224 ± 5	199	183	206	288	274	182	234
DeKalb	DKC61-88 GENVT3P	223 ± 4	175	209	231	278	268	192	208
Terral-REV Brand	18BHR84 (RR/LL/YGCB/HX1)	223 ± 5	196	213	211	247	248	213	230
Augusta	A5262GT3000	222 ± 5	184	196	213	262	256	218	223
Armor	1262PRO2	221 ± 5	189	183	226	280	251	201	219
Agrigold	A6559VT2PRO	220 ± 5	195	189	192	272	261	197	236
Dekalb	DKC62-08 GENSS	220 ± 4	191	202	198	253	273	187	235
LG SEEDS	LG5618STXRIB	220 ± 4	193	206	181	265	250	202	243
Mycogen	2V707 (SSX)	219 ± 5	190	216	224	236	241	192	234
Terral-REV Brand	22BHR21 (RR/LL/YGCB/HX1)	218 ± 5	203	209	211	249	253	175	226
Warren Seed	DS9111SSX (RR/LL/CB/RW)	218 ± 4	183	213	206	254	245	186	240
Steyer	11208 VT3PRORIBC	217 ± 5	184	203	214	257	256	183	223
Agrigold	A6499VT3PRO	217 ± 5	204	194	196	252	253	190	229
Croplan	6265VT2P	217 ± 5	177	198	223	268	262	157	233
NK Brand	N72Q-3111 (RR/LL/CB/RW/VIP)	217 ± 4	195	192	204	265	268	177	216
Agrigold	A6501VT3PRO	217 ± 4	179	195	206	266	259	188	223
Armor	1133PRO2	216 ± 5	200	188	201	263	254	184	223
Warren Seed	DS9610 (RR/LL/CB/RW)	215 ± 4	170	182	195	261	258	203	236
Steyer	X31111TM VT2PRORIBC	215 ± 5	174	208	206	244	243	183	245
Delta Grow	3660 (RR/LL/CB/BL)	215 ± 5	176	202	185	255	256	185	244
Dyna-Gro	D52VC91 (VT3P)	215 ± 5	181	184	207	255	261	204	212
Caverndale Farms	CF 834 VT2PRORIB	214 ± 5	196	183	189	255	273	183	220
Augusta	A5363VT3Pro	214 ± 4	190	203	214	243	251	179	219
Delta Grow	16660VIP3111	214 ± 5	190	199	168	246	243	212	236
Mycogen	2V714 (SSX)	213 ± 4	172	193	221	251	240	178	239
Great Lakes	6232VT3PRIB	213 ± 5	182	176	191	269	267	180	228
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	211 ± 4	197	191	225	235	250	160	218
Terral-REV Brand	17HR73 (RR/LL/HX1)	211 ± 5	192	174	221	244	234	190	220
Armor	1010PRO2	209 ± 5	167	184	196	259	246	192	223
LG SEEDS	LG2555VT3PRIB	209 ± 5	164	167	197	256	261	180	241
Dekalb	DKC61-78 GENVT3PRIB	209 ± 5	195	244	173	238	230	169	216
Terral-REV Brand	22BHR54 (RR/LL/YGCB/HX1)	209 ± 5	180	190	198	256	252	178	208
Warren Seed	DS9212SSX	209 ± 5	176	196	181	248	232	199	231
Agrigold	A6472VT3PRO	209 ± 5	191	181	182	245	249	189	224
Augusta	A5362VT3Pro	207 ± 4	205	169	215	249	229	170	213

Table 2 (continued)

Brand	Hybrid §	Avg. Yield [†]	Springfield				Milan		AgCenter	
		± Std Err (n=7)	Knoxville	(Irr.)	(Non-Irr.)	(Irr.)	(Non-Irr.)	Ames	Memphis	
		----- bu/a -----								
Beck's Hybrids	Phoenix 5832A3 (RR/LL/CB/RW)	205 ± 5	161	213	197	238	257	175	196	
Agrigold	A6553VT3RIB	204 ± 5	198	185	189	251	238	159	205	
Agrigold	A6486VT2RIB	204 ± 4	189	204	189	235	227	173	209	
Agrigold	A6478VT3PRIB	203 ± 4	187	155	195	230	248	177	231	
Agrigold	A6517VT3PRIB	203 ± 5	180	204	172	250	245	172	199	
Great Lakes	6354VT3PRIB	203 ± 5	210	191	199	237	217	148	216	
NK Brand	N70J-4011 (CB/RW/ART)	202 ± 4	142	190	207	238	242	174	225	
Mycogen	2V777 (SSX)	202 ± 4	180	182	170	234	247	199	204	
Dyna-Gro	D53VC13	202 ± 5	169	193	167	237	231	189	228	
Augusta	A2956 (GT)	199 ± 5	202	162	181	233	240	166	207	
Augusta	A2954 (GT3000)	197 ± 5	190	173	173	222	230	180	208	
LG SEEDS	LG2620VT2RIB	195 ± 4	186	179	187	240	207	136	230	
Agrigold	A6533VT2RIB	177 ± 5	184	145	165	220	197	130	196	
Avg. (bu/a)		212	186	191	198	251	248	182	223	
L.S.D._{.05} (bu/a)		12	33	49	32	20	18	28	33	
C.V. (%)		9.1	11.0	15.0	9.8	4.9	4.5	9.4	9.0	

†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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

Table 3. Overall mean yields and agronomic characteristics of 49 early-season corn hybrids evaluated in seven environments in Tennessee during 2013.

Brand	Hybrid §	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Error (n=7) bu/a	at Harvest (n=7) %	Weight (n=2) lbs/bu	(n=4) %	Height [‡] (n=3) in.	Height [‡] (n=3) in.	(n=1) %	(n=1) %	(n=1) %
Augusta	A5658GTCBLL	229 ± 5	17.8	54.1	0	101	37	7.2	3.8	62.0
Croplan	6640VT3P	224 ± 5	18.4	54.6	0	94	33	7.1	4.3	61.1
DeKalb	DKC61-88 GENVT3P	223 ± 4	17.7	55.0	0	97	33	6.9	4.1	61.8
Terral-REV Brand	18BHR84 (RR/LL/YGCB/HX1)	223 ± 5	17.0	55.2	0	98	33	6.8	3.8	62.3
Augusta	A5262GT3000	222 ± 5	19.1	54.3	0	105	35	6.9	4.1	61.9
Armor	1262PRO2	221 ± 5	17.6	55.7	0	105	36	6.8	3.8	62.2
Agrigold	A6559VT2PRO	220 ± 5	17.8	56.0	0	101	34	6.6	4.0	62.1
Dekalb	DKC62-08 GENSS	220 ± 4	17.7	54.8	0	96	36	7.2	4.2	61.5
LG SEEDS	LG5618STXRIB	220 ± 4	19.2	54.4	0	94	33	7.1	4.1	61.6
Mycogen	2V707 (SSX)	219 ± 5	17.3	55.2	0	99	37	7.0	3.9	62.0
Terral-REV Brand	22BHR21 (RR/LL/YGCB/HX1)	218 ± 5	17.3	55.2	0	101	35	6.8	3.9	62.4
Warren Seed	DS9111SSX (RR/LL/CB/RW)	218 ± 4	17.4	55.2	0	98	36	6.7	3.9	62.3
Steyer	11208 VT3PRORIBC	217 ± 5	17.5	54.2	0	100	34	6.9	4.0	61.7
Agrigold	A6499VT3PRO	217 ± 5	17.8	55.5	0	95	34	7.3	4.2	61.5
Croplan	6265VT2P	217 ± 5	17.4	55.7	0	99	36	6.9	3.7	62.5
NK Brand	N72Q-3111 (RR/LL/CB/RW/VIP)	217 ± 4	18.6	56.0	0	102	39	7.2	4.1	61.7
Agrigold	A6501VT3PRO	217 ± 4	18.5	54.8	0	98	31	6.8	4.0	61.7
Armor	1133PRO2	216 ± 5	17.3	55.3	0	96	32	7.0	3.9	61.9
Warren Seed	DS9610 (RR/LL/CB/RW)	215 ± 4	17.0	55.1	0	96	36	7.3	4.0	61.7
Steyer	X31111TM VT2PRORIBC	215 ± 5	17.6	55.2	0	100	35	6.7	3.9	62.3
Delta Grow	3660 (RR/LL/CB/BL)	215 ± 5	19.1	53.7	0	105	35	7.0	4.0	61.9
Dyna-Gro	D52VC91 (VT3P)	215 ± 5	18.4	55.5	0	99	34	7.2	3.9	62.0
Caverndale Farms	CF 834 VT2PRORIB	214 ± 5	18.6	55.5	0	96	33	6.9	3.8	62.4
Augusta	A5363VT3Pro	214 ± 4	17.1	55.8	0	101	36	6.7	3.9	62.3
Delta Grow	16660VIP3111	214 ± 5	16.9	56.4	0	100	35	7.1	3.9	62.2
Mycogen	2V714 (SSX)	213 ± 4	17.3	55.0	0	101	39	7.3	4.0	61.5
Great Lakes	6232VT3PRIB	213 ± 5	18.2	54.7	0	97	31	6.9	3.9	62.1
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	211 ± 4	17.9	56.4	0	107	37	7.0	4.0	62.0
Terral-REV Brand	17HR73 (RR/LL/HX1)	211 ± 5	17.0	55.7	0	102	34	7.1	3.9	62.1
Armor	1010PRO2	209 ± 5	16.8	56.1	0	102	37	7.2	3.9	61.7
LG SEEDS	LG2555VT3PRIB	209 ± 5	17.7	55.6	0	100	34	6.8	3.9	62.0
Dekalb	DKC61-78 GENVT3PRIB	209 ± 5	17.9	55.0	0	100	36	6.8	4.0	61.8
Terral-REV Brand	22BHR54 (RR/LL/YGCB/HX1)	209 ± 5	19.2	54.1	0	103	36	7.2	4.0	61.4
Warren Seed	DS9212SSX	209 ± 5	17.5	54.2	0	100	36	6.9	3.7	62.3
Agrigold	A6472VT3PRO	209 ± 5	17.0	56.2	0	97	35	7.3	3.9	61.9
Augusta	A5362VT3Pro	207 ± 4	18.2	54.3	0	99	34	7.1	4.2	61.7

Table 3 (continued)

Brand	Hybrid §	Avg. Yield [†] ± Std Error (n=7) bu/a	Moisture at Harvest (n=7) %	Test Weight (n=1) lbs/bu	Lodging (n=3) %	Plant Height (n=3) in.	Ear Height (n=3) in.	Protein (n=1) %	Oil (n=1) %	Starch (n=1) %
Beck's Hybrids	Phoenix 5832A3	205 ± 5	17.7	55.7	0	97	36	6.6	3.7	62.8
Agrigold	A6553VT3RIB	204 ± 5	18.5	54.9	0	100	31	7.1	3.8	62.0
Agrigold	A6486VT2RIB	204 ± 4	16.6	56.6	0	100	36	7.3	4.2	60.8
Agrigold	A6478VT3PRIB	203 ± 4	16.8	55.1	0	98	35	7.0	3.6	62.3
Agrigold	A6517VT3PRIB	203 ± 5	18	54.7	0	99	33	6.9	4.0	62.0
Great Lakes	6354VT3PRIB	203 ± 5	18.5	55.7	0	99	32	7.0	3.9	62.1
NK Brand	N70J-4011	202 ± 4	17.7	55.6	0	97	35	7.2	4.1	61.6
Mycogen	2V777 (SSX)	202 ± 4	18.8	53.4	0	102	37	7.0	4.1	61.6
Dyna-Gro	D53VC13	202 ± 5	18.9	54.3	0	100	34	6.6	4.2	61.6
Augusta	A2956 (GT)	199 ± 5	16.4	55.4	0	104	37	7.4	4.1	61.7
Augusta	A2954 (GT3000)	197 ± 5	16.4	55.7	0	100	34	7.3	3.8	61.9
LG SEEDS	LG2620VT2RIB	195 ± 4	17.7	56.5	0	97	30	6.9	4.0	62.1
Agrigold	A6533VT2RIB	177 ± 5	17.8	55.5	0	92	28	6.9	4.0	61.9
Average		212	17.8	55.2	0	99	35	7.0	4.0	61.9

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 4. Mean yields of 17 early-season (<114 DAP) corn hybrids evaluated in seven environments for two years (2012-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]	bu/a				Ames	AgCenter Memphis	
		± Std Err (n=12)	Knoxville	Springfield (Irr.)	(Non-Irr.)	Milan (Irr.)			(Non-Irr.)
Warren Seed	DS9111SSX (RR/LL/CB/RW)	169 ± 3	188	159	116	232	135	168	184
Augusta	A5363VT3Pro	166 ± 3	181	165	127	226	147	148	170
Warren Seed	DS9212SSX	166 ± 3	182	166	108	228	138	169	171
Croplan	6640VT3P	166 ± 3	201	133	106	246	154	143	177
Augusta	A5658GTCBLL	166 ± 3	197	128	117	238	142	156	184
DeKalb	DKC61-88 GENVT3P	165 ± 3	172	150	137	235	149	145	168
Armor	1010PRO2	163 ± 3	160	157	122	231	160	147	168
Augusta	A5262GT3000	163 ± 3	171	134	120	228	137	167	182
Armor	1262PRO2	162 ± 3	169	124	123	244	154	143	177
Dyna-Gro	D52VC91 (VT3P)	161 ± 3	173	138	115	233	135	155	176
NK Brand	N72Q-3111 (RR/LL/CB/RW/VIP)	160 ± 3	185	118	111	247	155	137	169
Augusta	A5362VT3Pro	158 ± 3	188	134	124	222	128	150	161
Warren Seed	DS9610 (RR/LL/CB/RW)	158 ± 3	167	127	101	225	137	163	181
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	155 ± 3	166	129	122	217	141	137	173
Agrigold	A6553VT3RIB	154 ± 3	180	124	113	224	133	134	170
Agrigold	A6486VT2RIB	153 ± 3	174	147	102	215	127	136	167
Agrigold	A6533VT2RIB	143 ± 3	176	117	94	208	116	119	172
Avg. (bu/a)		160	178	138	115	229	140	148	174
L.S.D._{.05} (bu/a)		10	30	38	27	23	18	25	26
C.V. (%)		11.0	11.3	18.7	16.2	6.6	8.3	10.7	9.9

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

Table 5. Mean yields and agronomic characteristics of 17 early-season corn hybrids evaluated in seven environments for two years (2012-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]		Test		Plant	Ear	Protein	Oil	Starch
		± Std Err (n=14)	Moisture (n=14)	Weight (n=3)	Lodging (n=10)	Height [‡] (n=6)	Height [‡] (n=6)			
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Warren Seed	DS9111SSX (RR/LL/CB/RW)	169 ± 3	16.7	56.0	1	93	37	8.0	4.2	67.5
Augusta	A5363VT3Pro	166 ± 3	16.6	56.7	2	95	36	8.2	4.1	67.4
Warren Seed	DS9212SSX	166 ± 3	16.5	55.0	4	96	40	8.4	4.0	67.4
Croplan	6640VT3P	166 ± 3	18.1	56.7	0	90	34	8.2	4.6	65.4
Augusta	A5658GTCBLL	166 ± 3	16.7	56.4	0	93	36	8.9	4.4	68.0
DeKalb	DKC61-88 GENVT3P	165 ± 3	17.1	56.3	1	93	35	8.1	4.3	66.1
Armor	1010PRO2	163 ± 3	16.3	57.0	1	97	37	8.8	4.3	67.0
Augusta	A5262GT3000	163 ± 3	17.6	55.8	1	98	35	8.6	4.1	67.6
Armor	1262PRO2	162 ± 3	17.4	57.2	0	99	36	8.1	4.2	67.5
Dyna-Gro	D52VC91 (VT3P)	161 ± 3	17.8	57.5	0	93	33	8.1	4.2	66.3
NK Brand	N72Q-3111 (RR/LL/CB/RW/VIP)	160 ± 3	17.8	56.5	5	95	36	8.0	4.2	67.6
Augusta	A5362VT3Pro	158 ± 3	17.6	56.7	0	95	34	8.2	4.5	67.2
Warren Seed	DS9610 (RR/LL/CB/RW)	158 ± 3	16.2	56.5	0	91	36	8.5	4.3	65.8
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	155 ± 3	17.3	58.3	0	100	36	8.9	4.0	67.5
Agrigold	A6553VT3RIB	154 ± 3	17.9	56.7	1	97	32	8.6	4.1	67.4
Agrigold	A6486VT2RIB	153 ± 3	16.2	57.2	2	97	35	8.5	4.3	66.9
Agrigold	A6533VT2RIB	143 ± 3	16.8	57.0	0	90	30	8.4	4.2	67.2
Average		160	17.1	56.7	1	95	35	8.4	4.2	67.0

§ 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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

Table 6. Mean yields of six early-season (<114 DAP) corn hybrids evaluated in seven environments for three years (2011-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]							
		± Std Err (n=21)	Knoxville	Springfield (Irr.) (Non-Irr.)		Milan (Irr.) (Non-Irr.)		AgCenter Ames Memphis	
		----- bu/a -----							
Warren Seed	DS9111SSX (RR/LL/CB/RW)	175 ± 2	182	171	141	227	146	161	196
DeKalb	DKC61-88 GENVT3P	173 ± 2	178	154	158	239	162	150	172
Armor	1262PRO2	166 ± 2	166	130	147	243	157	141	183
Augusta	A5658GTCBLL	166 ± 2	185	130	137	230	147	150	184
Agrigold	A6553VT3RIB	163 ± 2	180	126	135	228	146	138	189
Agrigold	A6533VT2RIB	155 ± 2	174	122	127	218	138	127	179
Avg. (bu/a)		166	178	139	141	231	149	145	184
L.S.D._{.05} (bu/a)		9.6	27	37	26	21	18	23	24
C.V. (%)		10.3	10.5	17.4	13.2	6.0	8.0	10.4	9

Table 7. Mean yields and agronomic characteristics of six early-season corn hybrids evaluated in seven environments for three years (2011-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]									
		± Std Err (n=21)	Moisture (n=21)	Test Weight (n=4)	Lodging (n=15)	Plant Height [‡] (n=9)	Ear Height [‡] (n=9)	Protein (n=3)	Oil (n=3)	Starch (n=3)	
		bu/a	%	lbs/bu	%	in.	in.	%	%	%	
Warren Seed	DS9111SSX	175 ± 2	16.6	55.6	1	93	35	8.1	4.2	69.5	
DeKalb	DKC61-88 GENVT3P	173 ± 2	16.8	56.3	1	93	33	8.4	4.1	69.1	
Armor	1262PRO2	166 ± 2	17.4	57.1	1	99	34	8.2	4.2	69.6	
Augusta	A5658GTCBLL	166 ± 2	16.4	56.2	0	93	34	9.0	4.3	70.2	
Agrigold	A6553VT3RIB	163 ± 2	18.4	55.9	1	96	30	8.8	4.1	69.3	
Agrigold	A6533VT2RIB	155 ± 2	17.2	56.8	1	91	29	8.6	4.2	69.1	
Average		166	17.1	56.3	1	94	33	8.5	4.2	69.5	

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

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

[‡]Average of Knoxville and Springfield.

Table 8. Mean yields of 43 medium-season (114-116 DAP) corn hybrids evaluated in seven environments in Tennessee during 2013.

Brand	Hybrid \$	Avg. Yield [†]		Springfield		Milan		AgCenter	
		± Std Err (n=7)	Knoxville	(Irr.)	(Non-Irr.)	(Irr.)	(Non-Irr.)	Ames	Memphis
				----- bu/a -----					
Beck's Hybrids	Beck 6626AM (RR/LL/CB)	232 ± 5	188	200	251	282	282	211	212
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	231 ± 4	207	191	222	279	293	214	209
Augusta	A5565VT3Pro	228 ± 4	180	218	225	259	274	223	221
Croplan	6960VT3P	227 ± 4	215	211	223	266	266	192	216
Golden Acres	G4598 (VT2P)	224 ± 4	198	181	214	264	280	223	207
NK Brand	N78S-3111 (RR/LL/CB/RW/VIP)	222 ± 5	200	185	215	255	267	225	207
Beck's Hybrids	Phoenix 6542A4 (RR/LL/CB/RW/BL)	221 ± 5	193	211	226	254	269	193	202
Dekalb	DKC66-40 GENSSRIB	221 ± 5	197	195	206	278	274	185	209
Augusta	A5465 (GT/LL/CB)	220 ± 4	198	185	205	254	256	220	224
DeKalb	DKC66-97 GENVT2P	220 ± 5	182	178	238	250	258	206	226
Agrigold	A6659VT3Pro	220 ± 4	213	207	210	244	257	199	208
Terral-REV Brand	26R60 (RR)	219 ± 4	175	200	231	268	264	185	208
Armor	1550PRO2	219 ± 4	201	190	215	244	256	199	226
Steyer	11407 VT3PRORIBC	218 ± 4	193	192	226	258	255	183	222
Great Lakes	6686VT3PRIB	218 ± 4	213	187	213	254	268	189	203
Steyer	11504 VT2PRORIBC	217 ± 4	184	199	210	250	260	198	220
Dyna-Gro	D55VC77 (VT2P)	217 ± 5	207	155	236	251	252	206	215
Dyna-Gro	CX56VP46 (VT3P)	216 ± 4	203	190	209	255	244	189	225
Croplan	6926VT3P	216 ± 4	204	187	240	247	247	179	208
Steyer	X31161TM VT2PRORIBC	215 ± 4	194	191	213	252	260	190	206
Armor	1555SS	214 ± 4	208	168	228	245	235	191	226
Golden Acres	26V21 (VT3Pro)	213 ± 5	179	180	223	226	264	206	212
Agrigold	A6573VT3PRIB	213 ± 4	174	199	221	249	247	188	211
Warren Seed	DS9314SSX	212 ± 4	198	218	217	241	226	189	197
Warren Seed	DS9311SSX	211 ± 4	199	206	198	237	240	215	180
Terral-REV Brand	25BHR44 (RR/LL/YGCB/HX1)	211 ± 4	175	175	212	281	279	187	166
DeKalb	DKC64-69 GENVT3P	211 ± 4	202	183	189	258	261	187	193
Mycogen	2C786 (RR/LL/HX1)	210 ± 4	187	207	171	239	254	207	201
Augusta	A5664 (GT/LL/CB/RW)	209 ± 5	191	185	189	225	243	204	226
LG SEEDS	LG2636VT3PRIB	209 ± 4	179	162	204	256	254	197	208
Beck's Hybrids	Phoenix 6948A3 (RR/LL/CB/RW)	209 ± 5	197	184	196	248	245	189	201
Delta Grow	2888 GTCBLL	209 ± 4	163	196	209	241	244	192	215
Caverndale Farms	CF 837 GTCBLL	208 ± 4	199	160	198	251	249	182	217
Dyna-Gro	D54VP81 (VT3P)	208 ± 5	197	173	208	236	233	200	209
Mycogen	2J794 (RR/LL/HX1)	207 ± 4	192	178	202	251	243	189	190
Augusta	A6866 (GT3000)	206 ± 4	174	173	225	225	263	175	205
Augusta	A6665 (VT3PRO)	205 ± 4	162	186	200	250	237	190	209

Table 8 (continued)

Brand	Hybrid §	Avg. Yield [†]		Springfield		Milan		AgCenter	
		± Std Err (n=7)	Knoxville	(Irr.)	(Non-Irr.)	(Irr.)	(Non-Irr.)	Ames	Memphis
Mycogen	2Y765 (SSX)	199 ± 4	169	168	184	236	251	197	189
NK Brand	N74G-3000GT	198 ± 4	182	169	186	221	226	190	208
Warren DS	9713SSX	196 ± 4	177	140	192	245	242	200	177
LG SEEDS	LG2641VT2RIB	195 ± 5	171	176	192	221	247	156	202
Beck's Hybrids	EX 8231HR (RR/LL/CB)	194 ± 4	189	170	180	205	231	183	201
Warren Seed	DS9614Q (RR/LL/CB/RW)	190 ± 4	180	168	192	236	214	173	163
	Avg. (bu/a)	213	190	186	210	249	254	195	207
	L.S.D._{.05} (bu/a)	11	28	44	31	20	21	32	38
	C.V. (%)	8.5	8.5	13.0	8.9	5.0	4.9	10.1	10.6

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

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

Table 9. Overall mean yields and agronomic characteristics of 43 medium-season corn hybrids evaluated in seven environments in Tennessee during 2013.

Brand	Hybrid §	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Err (n=7) bu/a	at Harvest (n=7) %	Weight (n=2) lbs/bu	(n=3) %	Height [‡] (n=3) in.	Height [‡] (n=3) in.	(n=1) %	(n=1) %	(n=1) %
Beck's Hybrids	Beck 6626AM (RR/LL/CB)	232 ± 5	17.9	54.1	0	106	38	7.4	4.4	61.0
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	231 ± 4	18.3	54.7	0	105	37	7.0	4.2	61.6
Augusta	A5565VT3Pro	228 ± 4	18.4	55.3	0	88	29	7.0	4.2	61.7
Croplan	6960VT3P	227 ± 4	17.9	55.8	0	100	33	6.8	4.4	61.2
Golden Acres	G4598 (VT2P)	224 ± 4	17.9	54.4	0	104	34	6.7	3.9	62.2
NK Brand	N78S-3111 (RR/LL/CB/RW/VIP)	222 ± 5	19.4	51.9	0	101	38	7.2	4.7	59.9
Beck's Hybrids	Phoenix 6542A4 (RR/LL/CB/RW/BL)	221 ± 5	19.9	52.2	0	101	36	7.2	4.5	60.4
Dekalb	DKC66-40 GENSSRIB	221 ± 5	18.3	54.1	0	101	37	7.1	4.3	61.5
Augusta	A5465 (GT/LL/CB)	220 ± 4	19.6	54.6	0	103	35	7.6	4.2	61.1
DeKalb	DKC66-97 GENVT2P	220 ± 5	18.9	53.8	0	99	32	7.3	4.5	60.8
Agrigold	A6659VT3Pro	220 ± 4	18.6	54.9	0	96	33	7.2	4.0	61.5
Terral-REV Brand	26R60 (RR)	219 ± 4	17.9	55.3	0	104	34	6.9	3.8	62.3
Armor	1550PRO2	219 ± 4	19.2	56.1	0	99	33	6.8	4.2	61.7
Steyer	11407 VT3PRORIBC	218 ± 4	18.2	55.2	0	90	30	7.0	4.2	61.5
Great Lakes	6686VT3PRIB	218 ± 4	18.0	54.8	0	97	32	6.8	4.1	61.6
Steyer	11504 VT2PRORIBC	217 ± 4	17.1	55.5	0	102	33	7.0	4.0	61.9
Dyna-Gro	D55VC77 (VT2P)	217 ± 5	17.9	55.5	0	90	29	7.0	4.1	61.7
Dyna-Gro	CX56VP46 (VT3P)	216 ± 4	18.6	54.4	0	93	34	7.1	4.5	60.8
Croplan	6926VT3P	216 ± 4	18.1	55.4	0	93	31	7.2	4.6	60.8
Steyer	X31161TM VT2PRORIBC	215 ± 4	19.1	53.5	0	97	35	7.2	4.5	60.3
Armor	1555SS	214 ± 4	19.2	54.6	0	89	31	7.0	4.3	61.6
Golden Acres	26V21 (VT3Pro)	213 ± 5	18.4	53.5	0	104	37	7.2	4.3	61.3
Agrigold	A6573VT3PRIB	213 ± 4	18.0	53.5	0	97	33	6.7	4.1	61.6
Warren Seed	DS9314SSX	212 ± 4	18.4	53.8	0	89	34	7.2	4.2	61.3
Warren Seed	DS9311SSX	211 ± 4	17.9	53.0	0	100	39	7.1	4.2	61.3
Terral-REV Brand	25BHR44 (RR/LL/YGCB/HX1)	211 ± 4	18.7	55.0	0	113	39	7.7	4.1	61.2
DeKalb	DKC64-69 GENVT3P	211 ± 4	18.0	54.7	0	97	34	6.8	4.2	61.7
Mycogen	2C786 (RR/LL/HX1)	210 ± 4	18.6	53.5	0	97	35	7.6	4.4	60.7
Augusta	A5664 (GT/LL/CB/RW)	209 ± 5	17.9	53.9	0	97	36	7.1	4.2	61.0
LG SEEDS	LG2636VT3PRIB	209 ± 4	17.9	54.3	0	97	30	6.9	4.2	61.5
Beck's Hybrids	Phoenix 6948A3 (RR/LL/CB/RW)	209 ± 5	18.5	53.8	0	100	37	6.8	4.1	61.2
Delta Grow	2888 GTCBLL	209 ± 4	19.3	54.6	0	105	37	7.6	4.1	61.5
Caverndale Farms	CF 837 GTCBLL	208 ± 4	19.9	53.1	0	109	37	7.8	4.3	61.0
Dyna-Gro	D54VP81 (VT3P)	208 ± 5	17.8	56.1	1	95	31	6.6	4.2	61.8
Mycogen	2J794 (RR/LL/HX1)	207 ± 4	20.2	52.6	0	100	37	7.7	4.0	61.4
Augusta	A6866 (GT3000)	206 ± 4	18.3	53.3	0	104	36	7.8	4.2	60.4
Augusta	A6665 (VT3PRO)	205 ± 4	17.3	55.4	0	104	35	7.0	3.9	62.1

Table 9 (continued)

Brand	Hybrid §	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Err (n=7)	at Harvest (n=7)	Weight (n=1)	(n=3)	Height [‡] (n=3)	Height [‡] (n=3)	(n=1)	(n=1)	(n=1)
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Mycogen	2Y765 (SSX)	199 ± 4	19.1	53.1	0	99	38	7.0	4.2	61.4
NK Brand	N74G-3000GT	198 ± 4	17.9	53.7	0	98	36	6.9	4.1	61.5
Warren Seed	DS9713SSX	196 ± 4	18.9	53.5	0	97	40	7.3	4.3	61.0
LG SEEDS	LG2641VT2RIB	195 ± 5	18.6	54.6	0	101	33	6.6	4.0	61.9
Beck's Hybrids	EX 8231HR (RR/LL/CB)	194 ± 4	18.4	55.0	0	98	35	8.2	4.0	61.3
Warren DS	9614Q (RR/LL/CB/RW)	190 ± 4	18.8	53.5	0	96	37	7.0	3.9	61.8
Average		213	18.5	54.3	0	99	35	7.1	4.2	61.3

§ 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

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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 10. Mean yields of 15 medium-season (114-116 DAP) corn hybrids evaluated in seven environments for two years (2012-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]	Springfield		Milan		AgCenter		
		± Std Err (n=7)	Knoxville	(Irr.)	(Non-Irr.)	(Irr.)	(Non-Irr.)	Ames	Memphis
			----- bu/a -----						
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	173 ± 3	202	143	116	264	154	171	163
Augusta	A5565VT3Pro	172 ± 3	173	182	126	249	147	173	154
Croplan	6960VT3P	170 ± 3	196	153	120	252	164	142	166
NK Brand	N78S-3111 (RR/LL/CB/RW/VIP)	169 ± 3	191	156	114	249	146	180	150
Steyer	11407 VT3PRORIBC	169 ± 3	180	169	123	245	142	157	170
Croplan	6926VT3P	166 ± 3	185	173	131	229	132	154	160
DeKalb	DKC64-69 GENVT3P	166 ± 3	186	157	103	250	145	160	160
DeKalb	DKC66-97 GENVT2P	166 ± 3	175	143	127	238	139	171	166
Agrigold	A6659VT3Pro	164 ± 3	186	163	113	233	135	159	158
Delta Grow	2888 GTCBLL	164 ± 3	163	172	110	235	142	156	167
Dyna-Gro	D54VP81 (VT3P)	160 ± 3	183	127	110	244	143	149	168
Beck's Hybrids	Phoenix 6948A3 (RR/LL/CB/RW)	157 ± 3	175	158	107	214	125	161	156
Terral-REV Brand	26R60 (RR)	156 ± 3	159	138	115	234	137	138	171
Golden Acres	26V21 (VT3Pro)	155 ± 3	172	133	110	224	140	155	152
Warren Seed	DS9614Q (RR/LL/CB/RW)	151 ± 3	176	140	101	226	133	139	141
	Avg. (bu/a)	164	180	154	115	239	142	158	160
	L.S.D._{.05} (bu/a)	11	23	45	22	24	18	28	33
	C.V. (%)	11.1	8.1	18.6	12.5	6.7	7.8	11.3	13

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

Table 11. Mean yields and agronomic characteristics of 15 medium-season corn hybrids evaluated in seven environments for two years (2012-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]		Test		Plant	Ear	Protein	Oil	Starch
		± Std Err (n=14)	Moisture (n=14)	Weight (n=3)	Lodging (n=9)	Height [‡] (n=6)	Height [‡] (n=6)			
		bu/a	%	lbs/bu	%	in.	in.	%	%	%
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	173 ± 3	17.7	56.1	2	99	37	7.9	4.4	67.5
Augusta	A5565VT3Pro	172 ± 3	17.6	57.1	1	83	29	8.4	4.4	67.2
Croplan	6960VT3P	170 ± 3	17.6	57.5	1	92	32	8.0	4.6	67.1
NK Brand	N78S-3111 (RR/LL/CB/RW/VIP)	169 ± 3	18.8	53.4	2	96	37	8.0	4.6	66.6
Steyer	11407 VT3PRORIBC	169 ± 3	17.5	56.9	0	84	29	8.6	4.4	67.1
Croplan	6926VT3P	166 ± 3	17.6	57.6	0	86	31	8.5	4.8	66.3
DeKalb	DKC64-69 GENVT3P	166 ± 3	17.3	56.2	1	88	32	8.0	4.4	67.5
DeKalb	DKC66-97 GENVT2P	166 ± 3	17.8	55.8	0	91	32	8.4	4.5	66.8
Agrigold	A6659VT3Pro	164 ± 3	17.6	56.5	1	87	31	8.0	4.3	67.3
Delta Grow	2888 GTCBLL	164 ± 3	18.3	56.4	2	99	36	8.7	4.1	67.4
Dyna-Gro	D54VP81 (VT3P)	160 ± 3	17.5	57.7	1	87	30	7.8	4.5	67.5
Beck's Hybrids	Phoenix 6948A3 (RR/LL/CB/RW)	157 ± 3	17.7	55.6	0	95	37	8.0	4.2	67.3
Terral-REV Brand	26R60 (RR)	156 ± 3	17.3	56.8	1	100	34	8.1	4.0	68.0
Golden Acres	26V21 (VT3Pro)	155 ± 3	17.5	55.3	1	94	35	8.1	4.4	67.4
Warren Seed	DS9614Q (RR/LL/CB/RW)	151 ± 3	17.8	54.1	2	93	37	8.2	4.1	67.6
Average		164	17.7	56.2	1	92	33	8.2	4.4	67.2

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 12. Mean yields of 6 medium-season (114-116 DAP) corn hybrids evaluated in seven environments for three years (2011-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]	Springfield		Milan		AgCenter		
		± Std Err (n=7)	Knoxville	(Irr.)	(Non-Irr.)	(Irr.)	(Non-Irr.)	Ames	Memphis
----- bu/a -----									
NK Brand	N78S-3111 (RR/LL/CB/RW/VIP)	171 ± 2	180	145	126	247	154	166	176
DeKalb	DKC64-69 GENVT3P	170 ± 2	183	150	127	241	161	146	179
Croplan	6926VT3P	169 ± 2	176	156	145	231	145	152	177
Dyna-Gro	D54VP81 (VT3P)	164 ± 2	177	126	131	247	157	139	175
Delta Grow	2888 GTCBLL	163 ± 2	172	158	125	234	145	152	156
Terral-REV Brand	26R60 (RR)	160 ± 2	162	138	125	239	144	136	173
	Avg. (bu/a)	166	175	146	130	240	151	149	173
	L.S.D._{.05} (bu/a)	9.8	24	36	22	22	19	25	31
	C.V. (%)	10.2	8.8	16.6	10.5	6.0	8.1	10.7	12

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

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

Table 13. Mean yields and agronomic characteristics of 6 medium-season corn hybrids evaluated in seven environments for three years (2011-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]	Test		Plant	Ear	Protein	Oil	Starch	
		± Std Err (n=21)	Moisture (n=21)	Weight (n=4)	Lodging (n=15)	Height [‡] (n=9)				Height [‡] (n=9)
bu/a % lbs/bu % in. in. % % %										
NK Brand	N78S-3111 (RR/LL/CB/RW/VIP)	171 ± 2	18.8	53.6	1	98	35	8.0	4.4	69.3
DeKalb	DKC64-69 GENVT3P	170 ± 2	16.8	56.2	1	88	31	8.3	4.3	69.5
Croplan	6926VT3P	169 ± 2	17.0	57.5	0	86	30	8.7	4.7	68.5
Dyna-Gro	D54VP81 (VT3P)	164 ± 2	17.3	57.6	1	88	30	8.1	4.5	69.4
Delta Grow	2888 GTCBLL	163 ± 2	17.9	56.1	2	101	35	8.8	4.0	69.8
Terral-REV Brand	26R60 (RR)	160 ± 2	17.1	56.6	2	102	33	8.3	4.0	70.1
	Average	166	17.5	56.3	1	94	32	8.4	4.3	69.4

§ 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

LL = contains a gene for tolerance to glufosinate

CL = contains a gene for tolerance to Imidazolinone class herbicides

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

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

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

[‡]Average of Knoxville and Springfield.

Table 14. Mean yields of 17 full-season (>116 DAP) corn hybrids evaluated in six environments in Tennessee during 2013.

Brand	Hybrid §	Avg. Yield [†]	Springfield		Milan		Ames	
		± Std Err (n=6)	Knoxville	(Irr.) (Non-Irr.)	(Irr.) (Non-Irr.)			
				bu/a				
Terral-REV Brand	28HR20 (RR/LL/HX1)	219 ± 5	187	172	228	295	258	173
Agrigold	A6687VT2PRO	217 ± 5	197	164	200	278	257	206
Terral-REV Brand	27HR83 (RR/LL/HX1)	217 ± 5	182	158	199	302	265	195
Golden Acres	27V01 (VT3Pro)	215 ± 6	204	199	202	247	245	190
Terral-REV Brand	28R10 (RR)	214 ± 5	170	188	217	266	254	192
DeKalb	DKC69-29 GENVT3P	214 ± 5	193	190	201	256	248	194
Croplan	8621VT3P	213 ± 5	203	162	206	265	249	193
Dyna-Gro	D57VP51 (VT3P)	210 ± 5	195	138	196	261	266	203
Caverndale Farms	CF 907 GTCBLL	207 ± 5	194	166	201	248	233	201
DeKalb	DKC67-57 GENVT3P	204 ± 5	192	163	197	236	242	195
Croplan	8410VT3P	202 ± 5	183	144	206	260	228	193
Augusta	A7767 (VT3PRO)	201 ± 5	171	158	185	248	252	189
Caverndale Farms	CF 894 VT2PRORIB	200 ± 5	195	148	184	249	245	180
Delta Grow	6160 VIP	199 ± 6	188	151	198	250	212	195
TN Exp	TN 1203W	194 ± 6	184	148	175	229	218	210
TN Exp	TN 1301	179 ± 6	152	211	175	192	176	169
TN Exp	TN 1302W	178 ± 6	161	192	155	191	173	198
	Avg. (bu/a)	205	185	168	196	251	237	193
	L.S.D._{.05} (bu/a)	14	36	39.2	42	26	34	35
	C.V. (%)	10.2	11.2	13.2	12.7	6.5	8.4	10.5

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

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

Table 15. Overall mean yields and agronomic characteristics of 17 full-season corn hybrids evaluated in six environments in Tennessee during 2013.

Brand	Hybrid §	Avg. Yield [†]	Moisture	Test	Lodging	Plant	Ear	Protein	Oil	Starch
		± Std Err (n=6) bu/a	at Harvest (n=6) %	Weight (n=1) lbs/bu	(n=3) %	Height [‡] (n=3) in.	Height [‡] (n=3) in.	(n=1) %	(n=1) %	(n=1) %
Terral-REV Brand	28HR20 (RR/LL/HX1)	219 ± 5	18.8	55.9	0	113	39	6.7	4.0	61.5
Agrigold	A6687VT2PRO	217 ± 5	18.6	55.9	0	101	37	7.3	4.1	61.6
Terral-REV Brand	27HR83 (RR/LL/HX1)	217 ± 5	17.9	55.1	0	113	42	6.7	4.1	61.8
Golden Acres	27V01 (VT3Pro)	215 ± 6	18.2	53.2	0	104	38	6.7	4.0	61.9
Terral-REV Brand	28R10 (RR)	214 ± 5	18.6	56.4	0	107	37	6.7	3.9	62.0
DeKalb	DKC69-29 GENVT3P	214 ± 5	18.6	55.2	0	92	35	7.3	4.5	61.0
Croplan	8621VT3P	213 ± 5	18.5	52.7	0	106	38	7.5	4.7	60.3
Dyna-Gro	D57VP51 (VT3P)	210 ± 5	18.3	54.8	0	100	38	7.0	4.2	61.3
Caverndale Farms	CF 907 GTCBLL	207 ± 5	19.8	55.5	0	103	36	7.5	4.1	61.2
DeKalb	DKC67-57 GENVT3P	204 ± 5	19.6	52.7	0	103	37	7.2	4.7	60.6
Croplan	8410VT3P	202 ± 5	18.7	55.2	0	95	33	7.2	4.3	61.4
Augusta	A7767 (VT3PRO)	201 ± 5	19.5	51.5	0	99	35	7.2	4.7	59.8
Caverndale Farms	CF 894 VT2PRORIB	200 ± 5	19.6	52.7	0	97	34	7.2	4.5	60.3
Delta Grow	6160 VIP	199 ± 6	17.8	55.4	0	105	36	7.3	3.9	61.4
TN Exp	TN 1203W	194 ± 6	21.7	52.7	0	115	44	7.9	4.8	59.9
TN Exp	TN 1301	179 ± 6	17.8	52.7	0	108	42	7.8	4.5	60.3
TN Exp	TN 1302W	178 ± 6	20.3	53.1	0	109	43	7.8	4.8	59.7
Average		205	19.0	54.2	0	104	38	7.2	4.3	60.9

§ 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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

LL = contains a gene for tolerance to glufosinate

W = white grain

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

Table 16. Mean yields of ten full-season (>116 DAP) corn hybrids evaluated in six environments for two years (2012-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]	Springfield		Milan		Ames	
		± Std Err (n=12)	Knoxville	(Irr.)** (Non-Irr.)	(Irr.)	(Non-Irr.)		
			----- bu/a -----					
Croplan	8621VT3P	167 ± 4	203	158	111	247	133	152
Terral-REV Brand	27HR83 (RR/LL/HX1)	164 ± 4	175	151	102	264	136	155
Golden Acres	27V01 (VT3Pro)	163 ± 4	186	185	101	218	129	157
Terral-REV Brand	28HR20 (RR/LL/HX1)	162 ± 4	197	145	115	253	132	129
DeKalb	DKC69-29 GENVT3P	160 ± 4	166	163	106	236	139	151
Dyna-Gro	D57VP51 (VT3P)	160 ± 4	178	140	104	239	139	161
DeKalb	DKC67-57 GENVT3P	159 ± 4	170	162	106	218	136	163
Terral-REV Brand	28R10 (RR)	155 ± 4	176	136	110	234	135	140
Croplan	8410VT3P	155 ± 4	174	128	109	231	125	162
TN Exp	TN 1203W	149 ± 4	190	139	93	199	111	162
	Avg. (bu/a)	159	182	151	106	234	132	153
	L.S.D._{.05} (bu/a)	13	30	43	25	39	22	32
	C.V. (%)	14.0	11.0	19.2	18.2	11.3	12.7	12.8

Table 17. Mean yields and agronomic characteristics of ten full-season corn hybrids evaluated in six environments for two years (2012-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]	Test			Plant	Ear	Protein (n=2)	Oil (n=2)	Starch (n=2)
		± Std Err (n=12)	Moisture (n=12)	Weight (n=3)	Lodging (n=8)	Height [‡] (n=6)	Height [‡] (n=6)			
			bu/a	%	lbs/bu	%	in.	%	%	%
Croplan	8621VT3P	167 ± 4	17.8	55.8	1	95	35	8.4	4.9	66.3
Terral-REV Brand	27HR83 (RR/LL/HX1)	164 ± 4	17.7	57.9	3	104	40	7.6	4.4	67.7
Golden Acres	27V01 (VT3Pro)	163 ± 4	17.7	55.6	4	97	35	8.0	4.2	67.5
Terral-REV Brand	28HR20 (RR/LL/HX1)	162 ± 4	18.2	59.0	1	106	39	7.7	4.1	67.7
DeKalb	DKC69-29 GENVT3P	160 ± 4	18.5	57.4	0	89	33	8.4	4.6	65.5
Dyna-Gro	D57VP51 (VT3P)	160 ± 4	17.8	57.8	0	94	36	8.5	4.3	67.0
DeKalb	DKC67-57 GENVT3P	159 ± 4	18.3	56.4	1	90	33	8.6	4.6	66.7
Terral-REV Brand	28R10 (RR)	155 ± 4	18.3	59.0	1	102	38	7.8	4.1	67.9
Croplan	8410VT3P	155 ± 4	18.1	58.1	0	86	30	8.5	4.4	67.3
TN Exp	TN 1203W	149 ± 4	20.0	56.3	8	104	42	8.5	4.9	66.2
	Average	159	18.2	57.3	2	97	36	8.2	4.5	67.0

§ 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

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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

Protein, Oil, and Starch on a dry weight basis

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

[‡]Average of Knoxville and Springfield.

W = white grain

LL = contains a gene for tolerance to glufosinate

Table 18. Mean yields of four full-season (>116 DAP) corn hybrid evaluated in six environments for three years (2011-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]		Springfield		Milan		Ames
		± Std Err (n=18)	Knoxville	(Irr.) (Non-Irr.)	(Irr.) (Non-Irr.)			
Terral-REV Brand	28HR20 (RR/LL/HX1)	167 ± 3	198	136	131	249	160	130
Croplan	8410VT3P	163 ± 3	184	131	126	226	143	165
DeKalb	DKC67-57 GENVT3P	159 ± 3	171	149	112	217	146	159
Terral-REV Brand	28R10 (RR)	154 ± 3	179	135	116	225	136	134
	Avg. (bu/a)	161	183	138	121	229	146	147
	L.S.D._{.05} (bu/a)	12	31	36	25	33	23	26
	C.V. (%)	12.8	11.4	17.1	16.4	10.2	11.9	11.5

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

Table 19. Mean yields and agronomic characteristics of four full-season corn hybrid evaluated in six environments for three years (2011-2013) in Tennessee.

Brand	Hybrid §	Avg. Yield [†]		Test		Plant	Ear	Protein	Oil	Starch
		± Std Err (n=18)	Moisture (n=18)	Weight (n=4)	Lodging (n=13)	Height [‡] (n=9)	Height [‡] (n=9)	(n=3)	(n=3)	(n=3)
Terral-REV Brand	28HR20 (RR/LL/HX1)	167 ± 3	17.9	58.1	1	106	37	8.1	4.2	69.7
Croplan	8410VT3P	163 ± 3	17.3	57.6	0	87	30	8.6	4.5	69.3
DeKalb	DKC67-57 GENVT3P	159 ± 3	17.5	56.5	1	89	32	8.7	4.5	68.9
Terral-REV Brand	28R10 (RR)	154 ± 3	17.9	58.6	2	102	36	8.1	4.1	69.9
	Average	161	17.7	57.7	1	96	34	8.4	4.3	69.5

§ 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 LL = contains a gene for tolerance to glufosinate

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

W = white grain

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

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

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

CL = contains a gene for tolerance to Imidazolinone class herbicides

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

[‡]Average of Knoxville and Springfield.

COUNTY STANDARD TESTS ‡

Table 20. Yields of 22 early-season (<114 DAP) Roundup / stacked corn hybrids in 19 County Standard Tests in Tennessee and Kentucky during 2013.††

MS	BRAND/HYBRID	AvgYld	Moist	TWt†	KY			Irrg.					KY												
					Bal	Call	Carl	Car	Cof	Dye	Fay	Fra	Ful	Gib	Gil	Hed	He1	He2	Lou	Mad	Mon	Obi	Rob	We1	We2
A	Croplan 6640 VT3P	217	17.9	58.2	214	230	223	202	181	226	251	220	219	198	219	199	234	218	209	188	218	262	247	156	233
AB	*Dekalb DKC62-08 GENSS	215	17.7	58.1	190	240	242	214	169	199	247	226	212	192	225	201	215	176	211	162	213	266	236	223	256
ABC	Dyna-Gro D52VC91 VT2P	211	18.1	58.8	207	227	230	206	183	214	268	225	207	182	264	168	217	194	204	169	219	200	249	179	225
ABC	Augusta A5262 3000GT	211	18.7	55.7	194	223	240	221	186	212	238	209	212	183	234	173	227	198	210	166	219	238	230	188	232
BCD	Dekalb DKC61-88 GENVT3P	208	17.0	58.3	210	231	225	204	177	225	230	217	203	186	235	172	223	186	211	172	205	226	248	169	216
CDE	Warren Seed DS9610 3000GT	206	17.4	57.2	200	218	212	212	174	158	242	182	191	199	252	187	216	193	205	163	235	262	225	186	218
CDEF	LG Seeds LG2555 VT3PRIB	204	17.5	56.7	183	220	211	208	162	220	246	216	184	158	214	194	220	190	213	170	195	235	223	168	251
DEFG	Warren Seed DS9212SSX	202	17.4	55.9	199	220	231	203	175	177	228	203	179	183	211	171	222	208	209	158	213	219	221	200	220
DEFGH	Dyna-Gro D53VC13 VT2P	202	17.8	58.2	206	225	225	207	190	185	230	192	185	180	220	155	208	191	196	164	211	229	223	170	240
DEFGH	Mycogen 2V707 SSX	201	17.4	57.2	190	223	223	210	157	183	218	210	198	187	237	174	191	186	208	157	214	235	219	178	221
EFGH	Terral 22BHR43	200	17.5	59.7	183	226	230	188	164	152	262	213	203	175	247	186	219	201	191	157	162	216	225	183	212
EFGH	Armor 1133PRO2 VT2PRO	199	17.1	57.4	177	198	229	208	149	194	238	189	190	183	210	200	208	200	210	158	217	217	221	138	241
FGH	Warren Seed DS9111SSX	198	17.2	56.7	203	222	206	182	163	180	228	188	197	187	242	167	187	189	203	163	201	220	207	187	231
FGH	Armor 1010PRO2 VT2PRO	197	16.8	58.3	200	210	213	190	176	207	245	223	186	167	242	149	194	187	187	169	192	200	231	168	204
FGHI	Mycogen 2V714 SSX	197	17.4	55.9	201	222	207	178	150	166	206	197	186	184	239	175	217	200	198	163	198	217	222	189	215
FGHI	AgriGold A6486 VT2RIB	196	17.1	56.9	189	212	206	217	154	205	233	196	188	184	202	154	202	196	189	163	206	221	218	179	213
FGHI	AgriGold A6517 VT3PRIB	196	18.0	55.2	183	177	217	219	161	185	224	184	200	185	226	166	202	203	204	172	201	232	222	143	209
GHI	Terral 17HR73	194	16.8	56.9	186	215	204	209	178	197	225	184	191	178	207	179	188	200	162	170	198	220	217	156	215
HI	Mycogen 2V777 SSX	194	17.8	55.4	155	168	200	204	175	180	232	193	186	196	217	192	211	202	196	143	184	221	207	202	211
IJ	AgriGold A6489 VT2RIB	189	17.5	57.9	195	210	211	182	176	161	246	201	191	157	232	164	185	156	184	162	183	205	219	159	185
JK	LG Seeds LG2620 VT2RIB	185	17.7	57.7	182	183	190	196	147	175	239	188	193	140	222	135	176	202	144	167	200	208	199	169	236
K	AgriGold A6533 VT2RIB	178	17.4	57.8	176	188	181	183	161	163	231	182	179	143	205	102	172	193	172	173	181	196	208	145	201
Average (bu/a)		200	17.5	57.3	192	213	216	202	168	189	237	202	195	179	227	171	206	194	196	165	203	225	224	174	222

§ Planting date. %M= Avg. % moisture at harvest across all locations.

†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).

††= Avg. Test Wt. lbs/bu @ 16 locations.

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

Hybrids marked with an asterisk (*), and/or (**), were in the top performing group in 2012 and/or 2011, respectively.

Locations include; *Ballard, KY, Carlisle, KY, Carroll, Coffee, Dyer, Fayette irrigated, Franklin, Fulton, KY, Gibson, Giles, Henry 1 (Brannon Farms), Henry 2 (Tosh Farms), Loudon, Madison, Montgomery, Obion irrigated, Robertson, Weakley 1 (Grooms) & Weakley 2 (Oliver).*

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

Table 21. Yields of 18 medium-season (114-116) Roundup / stacked corn hybrids in 19 County Standard Tests in Tennessee and Kentucky during 2013.†‡

MS	BRAND/HYBRID	Avg.		KY		KY		KY															KY				
		Yield	Moist	TWt¶	Cal	Can	Car	Cof	Dec	Dye	Fa1	Fa2	Fra	Ful	Gib	Gil	Hay	Hen	He1	He2	Hic	Mad	McC	Per	Rob	She	Way
A	Terral 24BHR93	200	17.6	58.4	240	217	180	192	233	203	177	207	187	218	195	148	136	176	226	235	241	166	178	232	225	178	208
AB	Dyna-Gro D55VP77 VT3P	196	17.6	59.1	236	202	173	173	208	221	184	195	189	211	200	137	130	208	214	213	219	174	193	220	256	177	175
AB	*Croplan 6960 VT3P	195	17.5	59.6	220	186	164	197	232	213	179	189	215	198	198	137	143	177	221	215	205	166	186	232	238	167	205
AB	***Dekalb DKC66-97 GENVT2P	195	17.8	59.1	248	206	167	195	199	209	192	194	204	204	184	149	120	163	209	188	239	167	228	249	206	182	178
AB	***Dekalb DKC64-69 GENVT3P	194	17.8	58.8	249	214	158	170	216	210	190	206	176	186	204	149	129	213	214	207	228	174	200	233	203	165	179
AB	*Armor 1550PRO2 VT2PRO	194	18.0	58.8	241	215	183	175	221	190	168	200	169	194	204	152	116	206	237	207	218	152	202	237	227	158	194
ABC	Augusta A5664 3000GT	193	18.0	57.6	223	205	174	192	215	208	170	189	211	193	189	133	120	205	198	204	224	187	198	214	215	163	197
ABC	*Augusta A5565 VT3Pro	192	17.8	58.5	234	211	170	175	217	202	177	208	185	208	246	132	128	193	195	204	221	151	161	238	210	176	174
ABCD	Augusta A6665 VT3Pro	191	17.0	59.2	214	186	182	191	225	212	186	192	165	207	196	156	113	200	186	202	239	156	196	211	232	172	179
BCD	Warren Seed DS9314SSX	189	18.0	57.1	216	200	166	186	211	210	170	200	188	199	195	136	123	202	199	191	226	176	165	212	210	185	191
BCD	Armor 1555 SS	189	18.0	58.1	220	195	163	176	213	188	187	191	181	196	200	129	134	177	203	197	221	180	196	207	225	178	191
BCD	Warren Seed DS9713SSX	189	18.4	55.3	239	200	174	172	216	187	167	166	155	192	208	132	134	188	199	213	218	177	173	227	217	184	204
BCD	AgriGold A6573 VT3PRIB	189	18.0	57.1	244	204	167	167	202	195	172	210	188	193	171	122	116	171	196	223	219	145	209	240	217	179	187
BCD	Terral 26R60	188	17.7	58.5	229	191	186	183	229	183	166	189	180	195	183	128	109	201	209	223	231	168	146	258	214	150	182
BCD	LG Seeds LG2636 VT3PRIB	188	17.6	57.3	231	192	172	186	202	186	174	180	156	209	194	120	128	170	235	217	210	186	157	238	212	189	187
CD	Dyna-Gro D54VP81 VT3P	184	17.6	59.7	236	219	171	189	218	198	171	166	179	185	202	164	147	183	187	195	203	167	177	108	236	148	184
D	Croplan 6926 VT3P	182	17.2	59.7	224	225	162	186	188	165	157	194	183	209	171	131	111	179	180	177	216	165	176	239	220	156	177
E	AgriGold A6553 VT2RIB	171	18.0	57.3	207	193	164	162	204	166	171	181	191	189	178	148	112	56	150	205	193	165	138	196	215	171	188
Average (bu/a)		190	17.7	58.3	231	203	171	181	214	197	175	192	183	199	195	139	125	182	203	206	221	168	182	222	221	171	188

§ Planting date. ¶M= Avg. % moisture at harvest across all locations.

†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).

¶= Avg. Test Wt. lbs/bu @ 16 locations.

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

Hybrids marked with an asterisk (*), (**) and/or (***) were in the top performing group in 2012, 2011 and 2010.

Locations include; *Calloway, KY, Cannon, Carlisle, KY, Coffee, Decatur, Dyer, Fayette 1 (Ames), Fayette 2 (McNabb), Franklin, Fulton, KY, Gibson, Giles, Haywood, Henderson, Henry 1 (Brannon), Henry 2 (Tosh), Hickman, Madison, McCracken, KY, Perry, Robertson, Shelby and Wayne.*

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

Table 22. Yields of 12 full-season (>116 DAP) Roundup / stacked corn hybrids in 12 County Standard Tests in Tennessee and Kentucky during 2013.†‡

MS	BRAND/HYBRID	Avg.	KY																
		Yield	Moist	TWt	Call	Cann	Coff	Dyer	Fay1	Irrg.	Fay2	Fran	Fult	Gibs	Gile	Hend	Hen1	Hen2	Robe
		bu/a	%	lb/bu	5/16 §	4/14	4/15	4/18	5/1	4/16	5/15	5/2	4/18	4/10	4/15	5/15	5/20	4/23	5/15
A	Augusta A7767 VT3Pro	201	18.8	57.4	245	195	177	209	179	199	193	211	199	150	218	246	212	205	185
A	Croplan 8621 VT3P	201	17.7	56.9	243	215	182	237	162	195	204	191	197	126	223	248	220	208	162
A	*AgriGold A6659 VT3PRO	200	17.5	58.2	232	201	182	228	165	191	207	209	201	159	192	235	215	204	182
A	Terral 27HR83	200	17.7	58.3	242	217	179	214	157	222	198	212	194	121	210	248	206	190	192
A	*Croplan 8410 VT3P	198	17.9	59.6	237	185	186	215	156	227	223	204	190	137	208	237	177	207	183
A	Terral 28HR20	197	18.1	59.1	237	213	175	203	140	198	207	198	201	134	223	237	214	192	187
AB	AgriGold A6687 VT2PRO	196	17.5	59.5	230	205	177	211	147	195	214	212	184	141	220	227	194	197	185
ABC	*Dyna-Gro D57VP51 VT3P	195	17.9	58.4	232	199	170	207	148	213	173	200	195	170	206	235	213	190	173
ABC	Dekalb DKC67-57 GENVT3P	194	17.8	59.4	232	209	187	216	172	213	179	198	182	152	186	219	202	193	173
ABC	Armor 1880PRO2 VT2PRO	194	17.4	59.6	246	186	155	214	158	199	194	212	188	135	214	239	199	198	167
BC	Augusta A6867 GTCBLLC	189	18.5	58.5	204	188	177	208	160	204	204	180	187	122	184	247	223	187	161
C	Dekalb DKC69-29 GENVT3P	188	18.5	58.7	229	195	172	204	146	165	192	200	189	128	177	222	221	194	182
Average (bu/a)		196	17.9	58.6	234	201	177	214	158	202	199	202	192	140	205	237	208	197	178

§ Planting date.

%M= Avg. % moisture at harvest across all locations.

†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).

TWt.= Avg. Test Wt. lbs/bu @ 11 locations.

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

Hybrid marked with an asterisk (*) was in the top performing group in 2012.

Locations include; Calloway, KY, Cannon, Coffee, Dyer, Fayette 1 (Ames), Fayette 2 (M. McNabb), Franklin, Fulton, KY, Gibson, Giles, Henderson, Henry 1, (Barker), Henry 2 (Tosh), Robertson and Shelby.

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

Table 23. Overall average yields, moistures, and test weights of 21 early-season corn hybrids evaluated in County Standard Tests and AgResearch and Education Center Tests in Tennessee during 2013.†

Brand	Hybrid §	Avg. of CST and REC Tests			CST Tests			REC Tests		
		Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Avg. Yield (n=7) bu/a	Moisture (n=7) %	Test Weight (n=2) lbs/bu
Croplan	6640VT3P	220	18.1	56.4	217	17.9	58.2	224	18.4	54.6
Dekalb	DKC62-08 GENSS	217	17.7	56.4	215	17.7	58.1	220	17.7	54.8
Dyna-Gro	D52VC91 (VT3P)	213	18.2	57.1	211	18.1	58.8	215	18.4	55.5
Augusta	A5262GT3000	217	18.9	55.0	211	18.7	55.7	222	19.1	54.3
DeKalb	DKC61-88 GENVT3P	216	17.3	56.7	208	17.0	58.3	223	17.7	55.0
Warren Seed	DS9610 (RR/LL/CB/RW)	211	17.2	56.1	206	17.4	57.2	215	17.0	55.1
LG SEEDS	LG2555VT3PRIB	206	17.6	56.2	204	17.5	56.7	209	17.7	55.6
Warren Seed	DS9212SSX	206	17.4	55.1	202	17.4	55.9	209	17.5	54.2
Dyna-Gro	D53VC13 (VT3P)	202	18.3	56.3	202	17.8	58.2	202	18.9	54.3
Mycogen	2V707 (SSX)	210	17.4	56.2	201	17.4	57.2	219	17.3	55.2
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	205	17.7	58.0	200	17.5	59.7	211	17.9	56.4
Armor	1133PRO2	207	17.2	56.3	199	17.1	57.4	216	17.3	55.3
Warren Seed	DS9111SSX	208	17.3	56.0	198	17.2	56.7	218	17.4	55.2
Armor	1010PRO2	203	16.8	57.2	197	16.8	58.3	209	16.8	56.1
Mycogen	2V714 (SSX)	205	17.3	55.4	197	17.4	55.9	213	17.3	55.0
Agrigold	A6486VT2RIB	200	16.8	56.7	196	17.1	56.9	204	16.6	56.6
Agrigold	A6517VT3PRIB	200	18.0	55.0	196	18.0	55.2	203	18.0	54.7
Terral-REV Brand	17HR73 (RR/LL/HX1)	203	16.9	56.3	194	16.8	56.9	211	17.0	55.7
Mycogen	2V777 (SSX)	198	18.3	54.4	194	17.8	55.4	202	18.8	53.4
LG SEEDS	LG2620VT2RIB	190	17.7	57.1	185	17.7	57.7	195	17.7	56.5
Agrigold	A6533VT2RIB	177	17.6	56.7	178	17.4	57.8	177	17.8	55.5
Average		205	17.6	56.2	201	17.5	57.3	210	17.7	55.2

†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

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

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

Table 24. Overall average yields, moistures, and test weights of 16 medium-season corn hybrids evaluated in County Standard Tests and AgResearch and Education Center Tests in Tennessee during 2013.†

Brand	Hybrid §	Avg. of CST and REC Tests			CST Tests			REC Tests		
		Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Avg. Yield (n=7) bu/a	Moisture (n=7) %	Test Weight (n=2) lbs/bu
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	215	17.9	56.5	200	17.6	58.4	231	18.3	54.7
Croplan	6960VT3P	211	17.7	57.7	195	17.5	59.6	227	17.9	55.8
DeKalb	DKC66-97 GENVT2P	207	18.3	56.4	195	17.8	59.1	220	18.9	53.8
DeKalb	DKC64-69 GENVT3P	203	17.9	56.7	194	17.8	58.8	211	18.0	54.7
Armor	1550PRO2	207	18.6	57.4	194	18.0	58.8	219	19.2	56.1
Augusta	A5664 (GT/LL/CB/RW)	201	17.9	55.8	193	18.0	57.6	209	17.9	53.9
Augusta	A6665 (VT3PRO)	198	17.2	57.3	191	17.0	59.2	205	17.3	55.4
Warren Seed	DS9314SSX	201	18.2	55.5	189	18.0	57.1	212	18.4	53.8
Armor	1555SS	202	18.6	56.4	189	18.0	58.1	214	19.2	54.6
Warren Seed	DS9713SSX	192	18.6	54.4	189	18.4	55.3	196	18.9	53.5
Agrigold	A6573VT3PRIB	201	18.0	55.3	189	18.0	57.1	213	18.0	53.5
Terral-REV Brand	26R60 (RR)	204	17.8	56.9	188	17.7	58.5	219	17.9	55.3
LG SEEDS	LG2636VT3PRIB	199	17.7	55.8	188	17.6	57.3	209	17.9	54.3
Dyna-Gro	D54VP81 (VT3P)	196	17.7	57.9	184	17.6	59.7	208	17.8	56.1
Croplan	6926VT3P	199	17.6	57.5	182	17.2	59.7	216	18.1	55.4
Average		202	18.0	56.5	191	17.7	58.3	214	18.2	54.7

†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

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.

SSX = SmartStax = RW (2), EW, AW, CB, RR2 and LL

Table 25. Overall average yields, moistures, and test weights of nine full-season corn hybrids evaluated in County Standard Tests and Research and AgEducation Center Tests in Tennessee during 2013.†

Brand	Hybrid §	Avg. of CST and REC Tests			CST Tests			REC Tests		
		Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Avg. Yield bu/a	Moisture %	Test Weight lbs/bu	Avg. Yield (n=6) bu/a	Moisture (n=6) %	Test Weight (n=1) lbs/bu
Augusta	A7767 (VT3PRO)	201	19.1	54.4	201	18.8	57.4	201	19.5	51.5
Croplan	8621VT3P	207	18.1	54.8	201	17.7	56.9	213	18.5	52.7
Terral-REV Brand	27HR83 (RR/LL/HX1)	209	17.8	56.7	200	17.7	58.3	217	17.9	55.1
Croplan	8410VT3P	200	18.3	57.4	198	17.9	59.6	202	18.7	55.2
Terral-REV Brand	28HR20 (RR/LL/HX1)	208	18.5	57.5	197	18.1	59.1	219	18.8	55.9
Agrigold	A6687VT2PRO	206	18.1	57.7	196	17.5	59.5	217	18.6	55.9
Dyna-Gro	D57VP51 (VT3P)	202	18.1	56.6	195	17.9	58.4	210	18.3	54.8
DeKalb	DKC67-57 GENVT3P	199	18.7	56.0	194	17.8	59.4	204	19.6	52.7
DeKalb	DKC69-29 GENVT3P	201	18.6	57.0	188	18.5	58.7	214	18.6	55.2
Average		204	18.3	57.0	195	17.9	59.0	212	18.6	55.0

†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 26. Characteristics, as described by the seed company, of corn hybrids evaluated in yield tests in Tennessee during 2013†

Early-Season Corn Hybrid Entries		Grain		Herbicide		Released or		Seed
Brand	Hybrid \$	Color	Maturity	Tolerance	BT Gene	Experimental		Treatment
Agrigold	A6472VT3PRO	Y	110	RR	VT3PRO	R		P500 Votivo
Agrigold	A6478VT3PRIB	Y	111	RR	VT3PRO	R		P500 Votivo
Agrigold	A6486VT2RIB	Y	111	RR	VT2Pro	R		Poncho 500, Votivo
Agrigold	A6499VT3PRO	Y	112	RR	VT3PRO	R		P500 Votivo
Agrigold	A6501VT3PRIB	Y	112	RR	VT3PRO	R		P500 Votivo
Agrigold	A6517VT3PRIB	Y	113	RR	VT3PRO	R		P500 Votivo
Agrigold	A6533VT2RIB	Y	113	RR2	VT2Pro	R		Poncho 500, Votivo
Agrigold	A6553VT2RIB	Y	113	RR	VT2Pro	R		Poncho 500, Votivo
Agrigold	A6559VT2PRO	Y	113	RR	VT2PRO	R		P500 Votivo
Armor	1010PRO2	Y	110	RR2	VT2Pro	R		Acceleron
Armor	1262PRO2	Y	112	RR2	VT2Pro	R		Acceleron
Armor	1133PRO2	Y	111	RR	VT2PRO	R		ACCLERON, VOTIVO
Armor	1330PRO2	Y	113	RR	VT2PRO	R		ACCLERON, VOTIVO
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	A5658GTCBLL	Y	108	GT/LL	CB	R		Cruiser Extreme
Augusta	A2956 (GT)	Y	106	GT		R		Cruizer 250
Augusta	A2954 (GT3000)	Y	104	GT/LL	CB,RW	R		Cruizer 1250
Beck's Hybrids	Phoenix 5832A3 (RR/LL/CB/RW)	Y	112	RR/LL	CB/RW	R		Escalate
Caverdale Farms	CF 834 VT2PRORIB	Y	112	RR	CB	R		Acceleron 250
Croplan	6265VT2P	Y	112	RR	YGCB, RW, CEW	R		Acceleron
Croplan	6640VT3P	Y	113	RR	YG,CB,C,RW	R		Acceleron
Dekalb	DKC61-78 GENVT3PRIB	Y	111	RR	YG, CB, C, RW	R		Poncho 500, Acceleron
DeKalb	DKC61-88 GENVT3P	Y	111	RR	VT3Pro	R		Poncho 500, Acceleron
Dekalb	DKC62-08 GENSS	Y	112	RR	YG, CB, C, RW	R		Poncho 500, Acceleron
Delta Grow	3660 (RR/LL/CB/BL)	Y	113	RR/LL	CB,BL	R		Cruiser Extreme Maxium
Delta Grow	16660VIP3111	Y	113					
Dyna-Gro	D52VC91 (VT3P)	Y	112	RR	VT3Pro	R		Acceleron P500
Dyna-Gro	D53VC13 (VT3P)	Y	113	RR	VT2PRO	R		ACCELERON P500
Great Lakes	6232VT3PRIB	Y	112	RR	VT3PRO	R		Accelleron, Votivo P500
Great Lakes	6354VT3PRIB	Y	113	RR	VT3PRO	R		Accelleron, Votivo P500
LG SEEDS	LG2555VT3PRIB	Y	110	RR	GENUITY CEW, ECB, FAW, CRW	R		clothianidin, Bacillus firmus, metalaxyl, ipconazole, trifloxystrobin
LG SEEDS	LG2620VT2RIB	Y	113	RR	GENUITY CEW, ECB, FAW	R		clothianidin, Bacillus firmus, metalaxyl, ipconazole, trifloxystrobin
LG SEEDS	LG5618STXRIB	Y	112	RR/LL	GENUITY BCW, CEW, CRW, ECB, FAW, WBC	R		clothianidin, Bacillus firmus, metalaxyl, ipconazole, trifloxystrobin
Mycogen	2V707 (SSX)	Y	110	RR2/LL	SSX	R		Cruiser MAXX
Mycogen	2V714 (SSX)	Y	111	RR2/LL	SSX	R		CruiserMaxx
Mycogen	2V777 (SSX)	Y	113	RR2/LL	SSX	R		CruiserMaxx
NK Brand	N70J-4011 (CB/RW/ART)	Y	112	RR/LL	CB, RW, ART	R		Mefenoxam, Fludioxonil, Azoxystrobin, Thiabendazole, Thiamethoxam, abamectin
NK Brand	N72Q-3111 (RR/LL/CB/RW/VIP)	Y	113	RR/LL	CB/RW/VIP	R		Maxim, Apron, Dynasty, Quattro, Cruiser
Steyer	11208 VT3PRORIBC	Y	112	RR	YGCB/CEW/FAW	R		Apron, Maxim, Dynasty, Crusier, Quattro
Steyer	X31111TM VT2PRORIBC	Y	111	RR	YGCB/CEW/FAW	E		Apron, Maxim, Dynasty, Crusier, Quattro
Terral-REV Brand	17HR73 (RR/LL/HX1)	Y	107	RR/LL	HX1	R		Apron Max, Cruiser 250
Terral-REV Brand	18BHR84 (RR/LL/YGCB/HX1)	Y	108	RR/LL	YGCB/HX1	R		Apron Max, Cruiser 250
Terral-REV Brand	22BHR21 (RR/LL/YGCB/HX1)	Y	112	RR/LL	YGCB/HX1	R		Apron Max, Cruiser 250
Terral-REV Brand	22BHR43 (RR/LL/CB/HX1)	Y	112	RR/LL	HX1	R		Cruiser 250, Apron, Maxim
Terral-REV Brand	22BHR54 (RR/LL/YGCB/HX1)	Y	112	RR/LL	YGCB/HX1	R		Apron Max, Cruiser 250
Warren Seed	DS9111SSX	Y	111	RR/LL	SmartStax	E		Cruiser Maxx 250
Warren Seed	DS9212SSX	Y	112	RR/LL	SmartStax	R		Cruiser Maxx 250
Warren Seed	DS9610 (RR/LL/CB/RW)	Y	110	RR/LL	Agrisure, 3000 GT	R		Cruiser Maxx 250

Table 26 (continued)

Medium-Season Corn Hybrid Entries		Grain	Herbicide	Released or	Seed	
Brand	Hybrid \$	Color	Tolerance	Experimental	Treatment	
Agrigold	A6573VT3PRIB	Y	114 RR	VT3PRO	R	P500 Votivo
Agrigold	A6659VT3Pro	Y	116 RR	VT3Pro	R	Poncho 500, Votivo
Armor	1550PRO2	Y	115 RR	VT2PRO	R	ACCLERON, VOTIVO
Armor	1555SS	Y	114 RR	SmartStax	R	ACCLERON, VOTIVO
Augusta	A5465 (GT/LL/CB)	Y	115 GT/LL	CB	R	
Augusta	A5565VT3Pro	Y	115 RR	CB/RW	R	Cruiser Extreme
Augusta	A5664 (GT/LL/CB/RW)	Y	114 GT/LL	CB,RW	R	
Augusta	A6665 (VT3PRO)	Y	115 RR	YG,CB,RW	R	
Augusta	A6866 (GT3000)	Y	116 GT/LL	CB,RW	R	Cruizer 250
Beck's Hybrids	Beck 6626AM (RR/LL/CB)	Y	114 RR/LL	CB	R	Escalate
Beck's Hybrids	EX 8231HR (RR/LL/CB)	Y	115 RR/LL	CB	E	Escalate
Beck's Hybrids	Phoenix 6542A4 (RR/LL/CB/RW/E)	Y	115 RR/LL	CB/RW/BL	R	Escalate
Beck's Hybrids	Phoenix 6948A3 (RR/LL/CB/RW)	Y	115 RR/LL	CB/RW	R	Escalate
Caverdale Farms	CF 844 3000GT	Y	114 RR/LL	CB/RW	R	Cruiser 250
Croplan	6926VT3P	Y	114 RR	YG,CB,C,RW	R	Acceleron
Croplan	6960VT3P	Y	114 RR	YG,CB,C,RW	R	Acceleron
DeKalb	DKC64-69 GENVT3P	Y	114 RR	VT3Pro	R	Poncho 500, Acceleron
Dekalb	DKC66-40 GENSSRIB	Y	116 RR	YG, CB, C, RW	R	Poncho 500, Acceleron
DeKalb	DKC66-97 GENVT2P	Y	116 RR	VT2Pro	R	Poncho 500, Acceleron
Delta Grow	2888 GTCBLL	Y	115 RR/LL	CB,BL	R	Maxim, Acetellic
Delta Grow	6160 VIP (FILL)	Y	?		R	
Dyna-Gro	CX56VP46 (VT3P)	Y	116 RR	VT3PRO	R	ACCELERON P500
Dyna-Gro	D54VP81 (VT3P)	Y	114 RR	VT3Pro	R	Acceleron p500
Dyna-Gro	D55VC77 (VT2P)	Y	115 RR	VT2PRO	R	ACCELERON P500
Golden Acres	26V21 (VT3Pro)	Y	115 RR	VT3Pro	R	Acceleron 1250
Golden Acres	G4598 (VT2P)	Y	114 RR	VT2P	R	Acceleron 1250
Great Lakes	6686VT3PRIB	Y	116 RR	VT3PRO	R	Acceleron, Votivo P500
LG SEEDS	LG2636VT3PRIB	Y	114 RR	GENUITY CEW, ECB, FAW, CRW	R	clothianidin, Bacillus firmus, metalaxyl, ipconazole, trifloxystrobin
LG SEEDS	LG2641VT2RIB	Y	114 RR	GENUITY CEW, ECB, FAW	R	clothianidin, Bacillus firmus, metalaxyl, ipconazole, trifloxystrobin
Mycogen	2C786 (RR/LL/HX1)	Y	115 RR/LL	HX1	R	CruiserMaxx
Mycogen	2J794 (RR/LL/HX1)	Y	115 RR/LL	HX1	R	CruiserMaxx
Mycogen	2Y765 (SSX)	Y	114 RR2/LL	SSX	R	CruiserMaxx
NK Brand	N74G-3000GT	Y	114 RR/LL	CB,RW	R	Mefenoxam, Fludioxonil, Azoxystrobin, Thiabendazole, Thiamethoxam, abamectin
NK Brand	N78S-3111 (RR/LL/CB/RW/VIP)	Y	116 RR/LL	CB/RW/VIP	R	Maxim, Apron, Dynasty, Quattro, Cruiser
Steyer	11407 VT3PRORIBC	Y	114 RR	VT3Pro	E	Maxim, Apron, Dynasty, Quattro, Cruiser
Steyer	11504 VT2PRORIBC	Y	115 RR	YGCB/CEW/FAW	R	Apron, Maxim, Dynasty, Crusier, Quattro
Steyer	X31161TM VT2PRORIBC	Y	116 RR	YGCB/CEW/FAW	E	Apron, Maxim, Dynasty, Crusier, Quattro
Terral-REV Brand	24BHR93 (RR/LL/CB/HX1)	Y	114 RR/LL	YGCB / HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	25BHR44 (RR/LL/YGCB/HX1)	Y	115 RR/LL	YGCB/HX1	R	Apron Max, Cruiser 250
Terral-REV Brand	26R60 (RR)	Y	116 RR		R	Cruiser 250, Apron, Maxim
Warren Seed	DS9311SSX	Y	114 RR/LL	SmartStax	R	Cruiser Maxx 250
Warren Seed	DS9314SSX	Y	114 RR/LL	SmartStax	R	Cruiser Maxx 250
Warren Seed	DS9614Q (RR/LL/CB/RW)	Y	115 RR/LL	HX1 / HXRW	R	Cruiser Maxx 250
Warren Seed	DS9713SSX	Y	115 RR/LL	SmartStax	R	Cruiser Maxx 250

Table 26 (continued)

Full-Season Corn Hybrid Entries		Grain		Herbicide		BT Gene	Released or Experimental	Seed Treatment
Brand	Hybrid §	Color	Maturity	Tolerance				
Agrigold	A6687VT2PRO	Y	117	RR		VT2PRO	R	P500 Votivo
Augusta	A7767 (VT3PRO)	Y	117	RR		YG,CB,RW	R	
Caverndale Farms	CF 894 VT2PRORIB	Y	117	RR		CB/RW	R	Acceleron 250
Caverndale Farms	CF 907 GTCBLL	Y	118	GT/LL		CB	R	Poncho 250, Trilex, Maxim, Acetellic
Croplan	8410VT3P	Y	117	RR		YG,CB,C,RW	R	Acceleron
Croplan	8621VT3P	Y	118	RR		YG,CB,C,RW	R	Acceleron
DeKalb	DKC67-57 GENVT3P	Y	117	RR		VT3Pro	R	Poncho 500, Acceleron
DeKalb	DKC69-29 GENVT3P	Y	119	RR		VT3Pro	R	Poncho 500, Acceleron
Delta Grow	6160 VIP	Y	114	RR/LL		VIP	R	Cruiser Extreme Maxium
Dyna-Gro	D57VP51 (VT3P)	Y	117	RR		VT3Pro	R	Acceleron P500
Golden Acres	27V01 (VT3Pro)	Y	117	RR		VT3Pro	R	Acceleron 1250
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	RR/LL		HX1	R	Cruiser 250, Apron, Maxim
Terral-REV Brand	28R10 (RR)	Y	118	RR			R	Cruiser 250, Apron, Maxim
TN Exp	TN 1203W	W	118				E	Cruiser Maxx 250
TN Exp	TN 1301	Y	118				E	Cruiser Maxx 250
TN Exp	TN 1302W	Y	118				E	Cruiser Maxx 250

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

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

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

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

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

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

LL = contains a gene for tolerance to glufosinate

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

¹ Information on this table provided by the respective seed companies.

Table 27. Contact information for corn hybrid seed companies evaluated in yield tests in Tennessee during 2013.

Company	Contact	Phone	Email	Web site	Address
Agrigold Hybrids	Lee Herring	270-399-5558		www.agrigold.com	RR#1 Box 203, St. Francisville, IL 62460
Armor Seed	Lane Dill	901-233-0274	lanedill@armorseed.com	www.armorseed.com	2528 Alexander Drive, Jonesboro, AR 72401 P.O. Box 178, Fisher, AR 72429 6497 Turner Landing Rd., LaCenter, KY 42056
Augusta Seed Corporation	Matt Rawley	540-255-5902	matt.rawley@augustaseed.com	www.augustaseed.com/	473 Tisdale Farm Ln, Stuanton, VA 24401
Beck's Superior Hybrids (Beck's & XL Brand)	Beck's Hybrids	800-937-2325		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	256-221-5932	JBWitt@landolakes.com	www.croplangenetics.com	Consolidated Ag Products (Agrilience) and Tennessee Farmers Co-op Locations
Monsanto (Dekalb)	Larry Ganann	901-326-7140	larry.w.ganann@monsanto.com	www.monsanto.com www.dekalb.com	800 N. Lindberg Blvd, St. Louis, MO 63167
Delta Grow Seed	Lee Hughes	504-842-2572	leehughes19@hotmail.com	www.deltagrow.com	P O Box 219, England, AR 72046
Crop Production Services (Dyna-Gro)	Chris Hummel	573-470-1499	chris.hummel@cpsagu.com	www.dynagroseed.com	710 South First Street, Union City, TN 38261
Progeny Ag Products	Hillary Spain	870-208-6032	hillary@progenyag.com	www.progenyag.com/	
Great Lakes Hybrids	Derek Dietmeier	815-222-1248	derek.dietmeier@greatlakeshybrids.com	www.greatlakeshybrids.com/	Bloomington, IN
LG Seeds	Jesse Grogan	765-426-2763	jesse.grogan@lgseeds.com	www.lgseeds.com/	22827 Shissler Rd., Elmwood, IL 61529
Mycogen Seed	Todd McClellan	317-522-6641	tmcclellan@dow.com	www.dowagro.com/mycogen	3563 Hilty Road, Export, PA 15632
NK Brand (Syngenta)	Mike Saxton	270-792-5885	mike.saxton@syngenta.com	www.nk-us.com	424 Jamie Way, Bowling Green, KY 42104
Steyer Seeds	Joe Steyer	800-231-4274	joesteyer@yahoo.com	www.steyerseeds.com	6154 N. Co. Rd. 33, Tiffin, OH 44883
Terral Seed Inc (Rev Brand)	Phil Michener	662-822-8242	pmichener@terralseed.com	www.terralseed.com	111 Ellington Dr., Rayville, LA 71269
University of Tennessee	Dennis West	865-974-8826	dwest3@utk.edu		3421 Joe Johnson Dr, Knoxville, TN 37996-4561
Warren Seed	Lanny Warren	731-234-2921	lanny.warren@charter.net	www.dairylandseed.com	P.O. Box 10, Woodland Mills, TN 38271