

Corn Grain Hybrid Tests in Tennessee

2016

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

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

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Agricenter International, Memphis

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County Standard Corn Tests

Coordinator: **Ryan H. Blair**, Area Specialist II, Grain Crops & Cotton

<u>County</u>	<u>Producer</u>	<u>Agent</u>
<u>Early Season Corn Hybrid Test (RR & Stacked)</u>		
Benton	Jason Uptain	Justin Hargrove
Calloway, KY	Mitch Jackson	Tim Lax
Carlisle, KY	Brad Reddick	Bob Middleton
Coffee	Jason Franklin	Steve Harris
Crockett	Steve & Drew Bailey	Richard Buntin
Dyer	Jason Reed	Tim Campbell
Franklin	Clay Farms	Ed Burns/Creig Kimbro
	Johnson Linder / Joe Forest &	
Fulton, KY	Nathan Campbell	Ben Rudy
Gibson	Denton Parkins	Philip Shelby
Giles	Pat Sulcer	Kevin Rose
Henderson	Billy Hatchett	Ron Blair
Henry	Tosh Farms / Brannon Farms	Ranson Goodman
Lake	John Lindamood	Greg Allen
Madison	David Martin	Jake Mallard
Obion	Bill Thompson	Tim Smith
Weakley	David Oliver	Jeff Lannom

Medium Season Corn Hybrid Test (RR & Stacked)

Benton	Jason Uptain	Justin Hargrove
Calloway, KY	Mitch Jackson	Tim Lax
Cannon	Jonny Powell	Bruce Steelman
Coffee	Jared Hale	Steve Harris
Crockett	Young Farmers and Ranchers	Richard Buntin
Decatur	Stacy Vise	Sam Plank
Dyer	Jason Reed	Tim Campbell
Fayette	Ames Plantation	Jeff Via
	Richard Atkinson & Jimmy	
Franklin	Latham	Ed Burns/Creig Kimbro
	Johnson Linder / Joe Forest &	
Fulton, KY	Nathan Campbell	Ben Rudy
Gibson	Denton Parkins	Philip Shelby
Giles	Mike Mayfield	Kevin Rose
Hardeman	Barry & Brian Lake	Lindsey Griffin
Haywood	Chester King	Walter Battle
Henderson	Billy Hatchett	Ron Blair
Henry	Tosh Farms / Brannon Farms	Ranson Goodman
Hickman	Claude Callicott	Troy Dugger
Lake	Terry Petty	Greg Allen
Madison	Matt Griggs	Jake Mallard

County Standard Corn Tests

Coordinator: **Ryan H. Blair**, Area Specialist II, Grain Crops & Cotton

<u>County</u>	<u>Producer</u>	<u>Agent</u>
<u>Medium Season Corn Hybrid Test (RR & Stacked), cont.</u>		
McCracken, KY	Jeff Sullivan	Bob Middleton
Obion	Seth Taylor	Tim Smith
Perry	Craig & Tim Byrd	Amanda Mathenia
Robertson	Freddie Edwards	Paul Hart
Smith	Kyle Owen	Chris Hicks
Warren	Tyler Bell	Heath Nokes
Wayne	Nathan Duren	Jason McGarrh
Weakley	Billy Scarbrough	Jeff Lannom

Full Season Corn Hybrid Test (RR & Stacked)

Benton	Jason Uptain	Justin Hargrove
Calloway, KY	Mitch Jackson	Tim Lax
Cannon	Jonny Powell	Bruce Steelman
Coffee	Jared Hale	Steve Harris
Dyer	Mike Underwood	Tim Campbell
Fayette	Ames Plantation	Jeff Via
Franklin	William Henley	Ed Burns/Creig Kimbro
Gibson	Denton Parkins	Philip Shelby
Giles	Pat Sulcer	Kevin Rose
Hardeman	Barry & Brian Lake	Lindsey Griffin
Henderson	Billy Hatchett	Ron Blair
	Tosh Farms / Jared & Autumn	
Henry	Barker	Ranson Goodman
Hickman	Todd Moore	Troy Dugger
Lake	Hopper Farms	Greg Allen
Madison	David Martin	Jake Mallard
Monroe	Larry Lay	Jonathan Rhea
Montgomery	Todd Moore	Rusty Evans
Warren	Tyler Bell	Heath Nokes
Weakley	David Oliver	Jeff Lannom

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CORN GRAIN HYBRID TESTS IN TENNESSEE

2016

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. Plant populations of 36,000 plants per acre for irrigated plots and 34,000 plants per acre for non-irrigated plots were the goal 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 approximately 230 lbs N/a. A portion of the nitrogen was applied prior to planting (e.g. 80 lbs/a) and the remainder was applied as a side-dress (e.g. 150 lbs/a). The plot size was two, 30-ft. rows. 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 26 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 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 2016 season started early with planting well ahead of the five year average. By the beginning of May, 80% of corn had been planted compared to only 57% in 2015. In mid-May, heavy rainfall and cool weather inhibited emergence in some areas, necessitating replanting. The remainder of the season was marked by hot, dry conditions. By mid-August, only 66% of the crop rated good to excellent. Corn harvest was slightly ahead of the five year average, with 89% of grain corn harvested by the beginning of October. According to the Tennessee Agricultural Statistics Service, producers planted 870,000 acres this year, an increase of 100,000 acres from 2015. Acreage harvested for grain is projected to be 800,000 acres, up 70,000 acres from last season. Corn grain production for 2016 is projected to be 118.4 million bushels, averaging 148 bu/a. Compared to 2015, this is an increase in production of 1.6 million bushels but a decrease in yield of 12 bu/a.

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 (the moisture standard for U.S. No. 2 corn).** 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 ($123 - 115 = 8 \text{ bu/a} = \text{LSD of } 8$) and Hybrid A ($123 - 110 = 13 \text{ bu/a} > \text{LSD of } 8$).

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 corn hybrids were evaluated in the 2016 **Research and Education Center (REC)** tests in Tennessee. There were 40 hybrids in the early- (Tables 2-7), 40 in the medium- (Tables 8-13), and 20 hybrids in the full-season (Tables 14-19) tests. The 100 hybrids represent 19 different brands (Table 27). The **County Standard (CS)** tests consisted of an early-season glyphosate resistant and Bt stacked trait test (21 hybrids at 16 locations, Table 20), a medium-season glyphosate resistant and Bt stacked trait test (27 hybrids at 26 locations, Table 21), and a full-season glyphosate resistant and Bt stacked trait test (14 hybrids at 18 locations, Table 22) for a total of 62 hybrids. In addition to 26 Tennessee counties, the County Standard tests involved Calloway, Carlisle, Fulton and McCracken counties in Western Kentucky. Common to both the REC and CS tests were 17 early-season, 18 medium-season, and 8 full-season hybrids (Tables 23-25). 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.

Ninety-five of the 100 hybrids in the 2016 REC tests have a Bt gene for corn borer resistance (denoted by 3000GT, Bt, CB, HX, SSX, VT2, VT3, YG, YGCB.); 51 have a gene for corn root worm resistance (denoted by 300GT, RW, SSX, VT3); 94 have a Roundup Ready gene for tolerance to glyphosate herbicide (denoted by RR, RR2, GT); 44 have a gene for tolerance to Liberty (glufosinate) herbicide (denoted by LL); four hybrids are conventional and contain no transgenes; one hybrid contains a single transgene; 85 are stacked with combinations of RR, Bt, RW, LL. Abbreviations used to denote biotech seed traits can be found in Table 28.

Irrigated vs. Non-irrigated Yields. Duplicate tests were conducted at the Milan and Highland Rim Research and Education Centers with and without irrigation. Due to dry conditions during the growing season, a difference in irrigated and non-irrigated corn tests was observed. This was most apparent at the Milan location, where the dry period coincided with pollination, causing poor kernel set and drastically reducing yields in the non-irrigated tests (Figure 1). The average difference in yields across hybrids that were irrigated versus those not irrigated at Milan were: 135 bu/a for early-season hybrids (Table 2), 161 bu/a for medium-season hybrids (Table 8), and 144 bu/a for full-season hybrids (Table 14). Irrigated and non-irrigated yields at Highland Rim showed much smaller yield differences. Both early and full season hybrids exhibited a yield advantage in the irrigated tests. Compared to non-irrigated tests, irrigated early-season hybrids exhibited a 3

bu/a advantage and irrigated full-season hybrids exhibited a 10 bu/a advantage. In contrast, medium season hybrids exhibited an 11 bu/a yield advantage in the non-irrigated test compared to the irrigated test.

Heavy rainfalls shortly after planting resulted in poor stands at several test locations. At Agricenter, all three tests were dropped and were not replanted. At Ames Plantation, the early and medium tests were the most affected. These two tests were replanted on May 31. The late planting and hot, dry conditions throughout the growing season resulted in very low yields and high variation in both tests. For these reasons, both early and medium tests at Ames Plantation were excluded from analyses.



Figure 1. Poor kernel set in corn from non-irrigated trials at Milan. Cobs on the far right and far left are from irrigated plots for comparison. Picture was taken Aug. 3rd, 2016.

Table 1. Location information from Research and Education Centers where the corn hybrid tests were conducted in Tennessee in 2016.

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Early Season Corn Hybrids					
East Tennessee	Knoxville	April 19, 2016	September 7, 2016	32,745	Shady-Whitewell Complex
Highland Rim (irrigated)	Springfield	April 18, 2016	September 6, 2016	38,042	Dickson Silt Loam
Highland Rim (non-irrigated)	Springfield	April 18, 2016	September 6, 2016	30,782	Dickson Silt Loam
Milan (irrigated)	Milan	April 18, 2016	September 8, 2016	36,590	Loring Silt Loam
Milan (non-irrigated)	Milan	April 18, 2016	September 9, 2016	35,138	Grenada Silt Loam
Ames Plantation	Grand Junction	May 31, 2016 [†]	September 27, 2016	-	Lexington Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Medium Season Corn Hybrids					
East Tennessee	Knoxville	April 19, 2016	September 7, 2016	32,445	Shady-Whitewell Complex
Highland Rim (irrigated)	Springfield	April 18, 2016	September 7, 2016	37,462	Dickson Silt Loam
Highland Rim (non-irrigated)	Springfield	April 18, 2016	September 8, 2016	30,782	Dickson Silt Loam
Milan (irrigated)	Milan	April 18, 2016	September 9, 2016	36,010	Loring Silt Loam
Milan (non-irrigated)	Milan	April 18, 2016	September 9, 2016	33,977	Grenada Silt Loam
Ames Plantation	Grand Junction	May 31, 2016 [†]	September 28, 2016	-	Lexington Silt Loam

Research and Education Center	Location	Planting Date	Harvest Date	Plant Population	Soil Type
Full Season Corn Hybrids					
East Tennessee	Knoxville	April 19, 2016	September 8, 2016	32,445	Shady-Whitewell Complex
Highland Rim (irrigated)	Springfield	April 18, 2016	September 7, 2016	35,429	Dickson Silt Loam
Highland Rim (non-irrigated)	Springfield	April 18, 2016	September 9, 2016	31,073	Dickson Silt Loam
Milan (irrigated)	Milan	April 18, 2016	September 9, 2016	36,010	Loring Silt Loam
Milan (non-irrigated)	Milan	April 18, 2016	September 9, 2016	34,558	Grenada Silt Loam
Ames Plantation	Grand Junction	April 24, 2016	September 27, 2016	-	Lexington Silt Loam

[†] Tests at Ames Plantation originally planted on April 24, 2016; replanted on May 31, 2016 due to flooding which caused poor stands in the early and medium tests.

Table 2. Mean yields of 40 early-season (<114 DAP) corn hybrids evaluated in four[‡] REC tests in Tennessee during 2016.

Hybrid [§]	Avg. Yield [†]	<u>Knoxville</u>	<u>Springfield</u>	<u>Milan</u>	
	± Std Err (n=4)	(Irr.)	(Irr.) (Non-Irr.)	(Irr.)	
		-----bu/a-----			
AgriGold A6544VT2PRO	233 ± 5	179	261	239	251
Croplan 5290DG (VT2P/RIB)	229 ± 4	180	226	234	275
NK Seeds N66V-3000GT	228 ± 4	177	238	226	270
Dekalb DKC62-08 GENSS	224 ± 4	189	221	220	266
Croplan 6640 (VT3P/RIB)	223 ± 4	184	228	226	256
Armor 1100 (VT2P)	221 ± 5	183	215	222	264
LG Seeds LG5618VT2RIB	221 ± 4	186	210	219	267
Beck's Hybrids 6225HR* (HX1)	220 ± 4	180	223	208	269
AgriGold A6442VT2RIB	219 ± 5	172	217	224	265
Beck's Hybrids 6158AM* (RR/LL)	219 ± 4	177	219	220	261
Augusta 5062 (V3110)	218 ± 4	173	215	220	266
Wyffels W7696RIB (VT2P)	217 ± 4	181	213	215	257
Mycogen X14730VH (RR2/BT)	215 ± 4	171	219	219	250
Beck's Hybrids 6365AM* (RR/LL)	214 ± 4	163	203	229	262
Beck's Hybrids 5828AM* (RR/LL)	214 ± 4	178	204	222	251
Mycogen X14677VH (RR2/BT)	214 ± 4	174	214	215	251
NK Seeds N59B-3111A	213 ± 4	182	200	206	263
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	212 ± 4	159	204	215	270
Warren Seed DS 9513SSX	212 ± 4	170	222	213	241
Terral-REV 18BHR84 (RR2/LL/YGCB/HX1)	211 ± 4	168	222	196	256
Terral-REV 22BHR43 (RR2/LL/YGCB/HX1)	210 ± 4	183	210	206	242
Mycogen X13813VH (RR2/Bt)	210 ± 4	174	218	223	225
Steyer 11306 VT2PRORIBC	209 ± 4	177	207	207	246
AgriGold A6499STXRIB	209 ± 5	193	200	204	239
Augusta 4959 (V3110)	209 ± 5	175	210	211	239
LG Seeds LG5548STXRIB	208 ± 4	169	209	207	249
Armor 0909 (VT2P)	208 ± 4	173	218	204	237
Caverndale Farms 839 3000GT	208 ± 4	166	205	201	259
AgriGold A6472VT2RIB	208 ± 5	177	199	202	253
Caverndale Farms 793 VIP 3110	206 ± 4	168	208	188	262
Progeny PGY 6110VT2P	206 ± 4	176	219	187	242
Augusta 1108 (VT2P)	206 ± 5	171	189	208	254
LG Seeds LG5554-3111	205 ± 4	169	212	199	239
Warren Seed DS 9610 (3000GT)	205 ± 4	175	207	195	241
AgriGold A6517VT3PRIB	201 ± 5	168	185	202	246

Table 2. (continued)

Hybrid [§]	Avg. Yield [†]				
	± Std Err (n=4)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.)	<u>Springfield</u> (Non-Irr.)	<u>Milan</u> (Irr.)
	----- bu/a -----				
Armor AXT6113 (VT2P)	199 ± 4	167	212	190	228
Warren Seed DS 9412SSX	198 ± 4	164	191	197	239
Warren Seed DS 9110RA	197 ± 4	145	206	189	250
Mycogen X13823S3 (RR2/BT)	195 ± 4	164	199	194	224
Mycogen 2Y744 (RR2)	191 ± 4	149	201	201	214
Avg. (bu/a)	211	173	212	210	251
L.S.D._{.05} (bu/a)	12	18	25	35	18
C.V. (%)	6.8	5.9	6.8	9.7	4.1

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

† All yields are adjusted to 15.5% moisture.

‡ Three additional locations were planted but discarded.

- Milan non-irrigated: Drought at a crucial period during pollination caused differential yield losses that were likely influenced by hybrid flowering date (C.V. = 19%, mean = 116 bu/a).

- Ames Plantation: Heavy flooding caused poor germination and uneven stands. Late replant (May 30) resulted in poor yield and high within test variation (C.V. = 52%, mean = 68 bu/a).

- AgriCenter International: Heavy flooding caused poor germination and uneven stands (not harvested).

Table 3. Overall mean yields and agronomic characteristics of 40 early-season corn hybrids evaluated in four[‡] REC tests in Tennessee during 2016.

Hybrid [§]	Avg. Yield [†]	Moisture	Test	Plant	Ear	Protein	Oil	Starch
	± Std Error (n=4)	at Harvest (n=4)	Weight (n=1)	Height (n=3)	Height (n=3)	(n=1)	(n=1)	(n=1)
	bu/a	%	lbs/bu	in.	in.	%	%	%
AgriGold A6544VT2PRO	233 ± 5	17.4	56.6	113	49	9.1	4.0	73.8
Croplan 5290DG (VT2P/RIB)	229 ± 4	17.8	57.1	110	49	9.7	4.3	72.8
NK Seeds N66V-3000GT	228 ± 4	16.8	54.7	115	49	10.0	3.8	73.3
Dekalb DKC62-08 GENSS	224 ± 4	17.6	59.5	101	47	9.2	3.9	74.0
Croplan 6640 (VT3P/RIB)	223 ± 4	17.6	59.3	103	45	9.9	4.5	72.5
Armor 1100 (VT2P)	221 ± 5	16.3	55.0	109	47	9.5	4.2	73.0
LG Seeds LG5618VT2RIB	221 ± 4	17.4	58.2	106	45	9.6	4.6	72.7
Beck's Hybrids 6225HR* (HX1)	220 ± 4	18.9	59.0	117	53	10.0	4.1	73.0
AgriGold A6442VT2RIB	219 ± 5	16.4	57.9	112	49	10.0	4.1	72.5
Beck's Hybrids 6158AM* (RR/LL)	219 ± 4	15.4	59.4	114	47	8.6	3.4	74.7
Augusta 5062 (V3110)	218 ± 4	18.1	58.2	111	46	9.7	3.7	74.0
Wyffels W7696RIB (VT2P)	217 ± 4	17.2	55.3	114	48	9.8	3.9	73.2
Mycogen X14730VH (RR2/BT)	215 ± 4	19.7	56.1	110	48	9.5	4.1	73.7
Beck's Hybrids 6365AM* (RR/LL)	214 ± 4	17.9	56.4	118	48	9.2	3.9	73.4
Beck's Hybrids 5828AM* (RR/LL)	214 ± 4	16.8	55.1	111	44	10.0	4.1	72.7
Mycogen X14677VH (RR2/BT)	214 ± 4	16.6	54.6	107	48	9.9	4.3	72.1
NK Seeds N59B-3111A	213 ± 4	17.0	57.7	112	47	9.1	4.2	73.0
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	212 ± 4	17.6	53.7	115	48	9.1	3.9	73.3
Warren Seed DS 9513SSX	212 ± 4	19.5	55.0	108	48	9.5	4.1	73.5
Terral-REV 18BHR84 (RR2/LL/YGCB/HX1)	211 ± 4	16.8	52.6	111	43	9.9	4.1	73.1
Terral-REV 22BHR43 (RR2/LL/YGCB/HX1)	210 ± 4	17.6	57.3	120	49	10.0	3.8	73.4
Mycogen X13813VH (RR2/Bt)	210 ± 4	19.1	53.4	114	53	10.0	4.1	72.9
Steyer 11306 VT2PRORIBC	209 ± 4	16.4	57.4	110	45	9.1	3.7	73.7
AgriGold A6499STXRIB	209 ± 5	18.4	55.2	101	44	9.3	4.7	72.6
Augusta 4959 (V3110)	209 ± 5	17.1	58.4	113	51	10.0	3.8	73.5
LG Seeds LG5548STXRIB	208 ± 4	17.0	57.9	108	44	8.0	4.4	73.8
Armor 0909 (VT2P)	208 ± 4	16.3	55.1	110	51	11.0	4.5	71.7
Caverndale Farms 839 3000GT	208 ± 4	19.4	52.3	117	48	10.0	4.2	72.7
AgriGold A6472VT2RIB	208 ± 5	17.4	60.1	107	48	9.4	4.1	73.0
Caverndale Farms 793 VIP 3110	206 ± 4	18.4	56.0	111	45	9.9	3.7	73.9
Progeny PGY 6110VT2P	206 ± 4	17.2	58.7	106	46	9.6	4.0	73.1
Augusta 1108 (VT2P)	206 ± 5	16.1	58.6	110	49	11.0	4.5	71.8
LG Seeds LG5554-3111	205 ± 4	16.1	50.8	107	46	9.3	4.4	72.6
Warren Seed DS 9610 (3000GT)	205 ± 4	17.0	58.9	105	47	10.0	4.3	72.9
AgriGold A6517VT3PRIB	201 ± 5	18.3	52.5	110	44	10.0	4.3	72.5

Table 3. (continued)

Hybrid[§]	Avg. Yield[†] ± Std Error (n=4)	Moisture at Harvest (n=4)	Test Weight (n=1)	Plant Height (n=3)	Ear Height (n=3)	Protein (n=1)	Oil (n=1)	Starch (n=1)
	bu/a	%	lbs/bu	in.	in.	%	%	%
Armor AXT6113 (VT2P)	199 ± 4	17.5	58.3	106	47	10.0	4.4	72.1
Warren Seed DS 9412SSX	198 ± 4	17.5	49.0	110	48	9.9	4.2	72.8
Warren Seed DS 9110RA	197 ± 4	16.6	54.6	107	49	9.5	4.2	72.5
Mycogen X13823S3 (RR2/BT)	195 ± 4	18.7	53.9	107	47	9.5	4.0	73.4
Mycogen 2Y744 (RR2)	191 ± 4	16.9	53.2	98	40	9.9	3.8	73.0
Average	211	17.4	56.1	110	47	9.7	4.1	73.1

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

‡ Three additional locations were planted but discarded.

- Milan non-irrigated: Drought at a crucial period during pollination caused differential yield losses that were likely influenced by hybrid flowering date (C.V. = 19%, mean = 116 bu/a).

- Ames Plantation: Heavy flooding caused poor germination and uneven stands. Late replant (May 30) resulted in poor yield and high within test variation (C.V. = 52%, mean = 68 bu/a).

- AgriCenter International: Heavy flooding caused poor germination and uneven stands (not harvested).

Table 4. Mean yields of 15 early-season (<114 DAP) corn hybrids evaluated in four REC tests for two years (2015-2016) in Tennessee (n=8).

Hybrid [§]	Avg. Yield [†]				
	± Std Err (n=8)	Knoxville (Irr.)	Springfield (Irr.)	Non-Irr. (Irr.)	Milan (Irr.)
	----- bu/a -----				
Beck's Hybrids 6365AM* (RR/LL)	227 ± 3	207	227	216	260
Beck's Hybrids 6158AM* (RR/LL)	224 ± 3	213	228	201	256
Croplan 6640 (VT3P/RIB)	222 ± 3	218	226	203	239
Dekalb DKC62-08 GENSS	221 ± 3	219	217	204	244
LG Seeds LG5618VT2RIB	219 ± 3	215	219	198	245
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	219 ± 3	200	209	210	258
Terral-REV 18BHR84 (RR2/LL/YGCB/HX1)	217 ± 3	200	227	197	243
Terral-REV 22BHR43 (RR2/LL/YGCB/HX1)	216 ± 3	204	220	204	237
Mycogen X13813VH (RR2/Bt)	216 ± 3	203	221	209	232
AgriGold A6517VT3PRIB	214 ± 3	216	200	191	249
AgriGold A6499STXRIB	212 ± 3	225	189	197	235
AgriGold A6472VT2RIB	210 ± 3	196	217	186	240
NK Seeds N59B-3111A	209 ± 3	193	204	191	250
Warren Seed DS 9610 (3000GT)	202 ± 3	200	201	181	227
Mycogen 2Y744 (RR2)	198 ± 3	176	209	187	219
Avg. (bu/a)	215	206	214	198	242
L.S.D._{.05} (bu/a)	11	18	27	24	18
C.V. (%)	6.5	5.5	8.0	15.4	4.7

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

Table 5. Mean yields and agronomic characteristics of 15 early-season corn hybrids evaluated in four REC tests for two years (2015-2016) in Tennessee (n=8).

Hybrid [§]	Avg. Yield [†]	Moisture (n=8)	Test Weight (n=3)	Lodging (n=2)	Plant Height (n=6)	Ear Height (n=6)	Protein [‡] (n=2)	Oil [‡] (n=2)	Starch [‡] (n=2)
	± Std Err (n=8)								
	bu/a	%	lbs/bu	%	in.	in.	%	%	%
Beck's Hybrids 6365AM* (RR/LL)	227 ± 3	18.0	56.8	1	112	48	8.9	4.2	73.5
Beck's Hybrids 6158AM* (RR/LL)	224 ± 3	15.1	58.6	0	108	45	8.5	3.9	74.4
Croplan 6640 (VT3P/RIB)	222 ± 3	17.5	59.4	0	98	44	9.5	4.7	72.8
Dekalb DKC62-08 GENSS	221 ± 3	17.0	59.1	0	96	45	9.0	4.3	73.6
LG Seeds LG5618VT2RIB	219 ± 3	17.0	59.1	0	99	43	9.5	4.7	72.8
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	219 ± 3	17.5	56.2	0	110	47	8.8	4.1	73.6
Terral-REV 18BHR84 (RR2/LL/YGCB/HX1)	217 ± 3	16.3	55.6	0	104	42	9.3	4.3	73.4
Terral-REV 22BHR43 (RR2/LL/YGCB/HX1)	216 ± 3	17.1	58.6	0	115	48	9.9	4.0	73.5
Mycogen X13813VH (RR2/Bt)	216 ± 3	18.9	54.0	0	107	49	10.0	4.4	72.7
AgriGold A6517VT3PRIB	214 ± 3	18.0	55.0	3	106	44	9.5	4.6	72.5
AgriGold A6499STXRIB	212 ± 3	17.9	57.3	0	96	43	9.2	4.9	72.8
AgriGold A6472VT2RIB	210 ± 3	17.0	59.3	0	104	46	9.2	4.3	73.1
NK Seeds N59B-3111A	209 ± 3	17.3	57.1	0	108	46	8.6	4.4	73.4
Warren Seed DS 9610 (3000GT)	202 ± 3	16.3	58.8	0	101	46	9.8	4.5	72.9
Mycogen 2Y744 (RR2)	198 ± 3	16.8	54.2	0	93	38	9.2	4.2	73.0
Average	215	17.2	57.3	0	104	45	9.3	4.4	73.2

§ If a trait appears inside parenthesis i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

† All yields are adjusted to 15.5% moisture.

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

Table 6. Mean yields of 11 early-season (<114 DAP) corn hybrids evaluated in four REC tests for three years (2014-2016) in Tennessee (n=12).

Hybrid [§]	Avg. Yield [†]				
	± Std Err (n=12)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.) (Non-Irr.)		<u>Milan</u> (Irr.)
	----- bu/a -----				
Croplan 6640 (VT3P/RIB)	221 ± 3	221	213	190	258
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	218 ± 3	202	209	190	272
Dekalb DKC62-08 GENSS	217 ± 3	214	208	197	251
LG Seeds LG5618VT2RIB	216 ± 3	218	200	189	256
AgriGold A6517VT3PRIB	212 ± 3	208	200	178	262
Terral-REV 18BHR84 (RR2/LL/YGCB/HX1)	212 ± 3	202	216	181	250
AgriGold A6499STXRIB	212 ± 3	227	190	184	246
Terral-REV 22BHR43 (RR2/LL/YGCB/HX1)	210 ± 3	203	198	192	248
AgriGold A6472VT2RIB	207 ± 3	195	207	174	252
Warren Seed DS 9610 (3000GT)	203 ± 3	200	198	172	241
Mycogen 2Y744 (RR2)	195 ± 3	192	206	155	226
Avg. (bu/a)	211	207	204	182	251
L.S.D._{.05} (bu/a)	12	19	27	27	20
C.V. (%)	7.4	6.3	8.8	9.9	5.3

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

Table 7. Mean yields and agronomic characteristics of 11 early-season corn hybrids evaluated in four REC tests for three years (2014-2016) in Tennessee (n=12).

Hybrid [§]	Avg. Yield [†]	Moisture (n=12)	Test		Plant	Ear	Protein [‡] (n=3)	Oil [‡] (n=3)	Starch [‡] (n=3)
	± Std Err (n=12)		Weight (n=3)	Lodging (n=4)	Height (n=9)	Height (n=9)			
	bu/a	%	lbs/bu		in.	in.	%	%	%
Croplan 6640 (VT3P/RIB)	221 ± 3	18.6	59.1	0	98	42	9.2	4.8	72.9
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	218 ± 3	18.3	56.4	0	108	44	8.4	4.2	73.8
Dekalb DKC62-08 GENSS	217 ± 3	17.6	58.8	0	95	42	8.7	4.5	73.5
LG Seeds LG5618VT2RIB	216 ± 3	18.2	59.0	0	97	41	9.1	4.9	72.9
AgriGold A6517VT3PRIB	212 ± 3	18.0	55.1	2	102	41	9.2	4.8	72.6
Terral-REV 18BHR84 (RR2/LL/YGCB/HX1)	212 ± 3	17.1	56.2	0	102	39	8.9	4.4	73.5
AgriGold A6499STXRIB	212 ± 3	19.2	56.8	0	94	41	8.9	5.0	72.9
Terral-REV 22BHR43 (RR2/LL/YGCB/HX1)	210 ± 3	17.8	59.2	0	112	46	9.4	4.2	73.5
AgriGold A6472VT2RIB	207 ± 3	18.0	58.9	0	102	43	9.0	4.6	72.9
Warren Seed DS 9610 (3000GT)	203 ± 3	17.5	56.6	0	99	43	9.3	4.7	72.9
Mycogen 2Y744 (RR2)	195 ± 3	17.8	54.0	0	92	37	9.0	4.5	72.8
Average	211	18.0	57.3	0	100	42	9.0	4.6	73.1

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

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

Table 8. Mean yields of 40 medium-season (114-116 DAP) corn hybrids evaluated in four[‡] REC tests in Tennessee during 2016.

Hybrid [§]	Avg. Yield [†]				
	± Std Err (n=4)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.) (Non-Irr.)		<u>Milan</u> (Irr.)
			bu/a		
Steyer 11410 VT2PRORIBC	231 ± 5	189	233	242	263
LG Seeds LG5643VT2Pro	229 ± 5	183	229	249	256
LG Seeds LG5663VT2PRIB	229 ± 5	197	225	243	251
AgriGold A6572VT2PRO	228 ± 5	193	220	232	268
Steyer 11408 VT2PRORIBC	225 ± 5	166	240	231	260
LG Seeds LG5650VT2Pro	225 ± 5	178	234	228	258
AgriGold A6652VT2PRO	222 ± 5	172	231	217	268
Armor 1340 (VT2P)	221 ± 6	198	228	235	226
NK Seeds N76A-3000GT	220 ± 5	173	216	234	259
AgriGold A6659VT2RIB	219 ± 6	169	215	255	238
AgriGold A6559VT2RIB	219 ± 6	175	213	217	269
Dekalb DKC66-75 GENVT2P	216 ± 5	168	212	219	266
Dekalb DKC66-59 GENVT2P	216 ± 5	177	216	222	247
Progeny PGY 6116VT2P	215 ± 5	173	222	210	256
LG Seeds LG5701VT2RIB	215 ± 5	169	220	236	235
Armor 1500 (VT2P)	215 ± 6	187	201	213	257
Dyna-Gro D54VC52 (VT2P)	214 ± 5	174	214	229	239
Progeny PGY 4114VT2P	214 ± 5	167	215	223	250
Wyffels W7888RIB (RR/LL/SSX)	213 ± 5	171	207	222	254
Progeny PGY 5115VT2P	213 ± 5	166	206	229	252
Croplan 6926 (VT3P)	213 ± 5	177	199	224	252
Beck's Hybrids 6589V2P	213 ± 5	157	220	223	251
Wyffels W8918 (SSX)	212 ± 5	167	207	228	246
Terral-REV 25BHR26 (RR2/LL/YGCB/HX1)	212 ± 5	165	195	238	249
Dekalb DKC64-69 GENVT3P	212 ± 5	165	214	223	243
Steyer 11506 VT2PRORIBC	211 ± 5	175	210	221	238
Dekalb DKC64-34 GENSSRIB	211 ± 5	157	220	226	241
Wyffels W8268 (SSX)	211 ± 5	159	206	215	264
Dyna-Gro D54DC94 (VT2P/DG)	210 ± 5	166	226	219	228
Mycogen 2J794 (RR2/LL/HX1)	210 ± 5	159	211	220	248
Augusta 1565 (GT/LL/CB)	207 ± 5	185	200	194	249
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	207 ± 5	167	206	211	244
Pfister 3488HXRR (RR,LL,HX1)	206 ± 5	160	201	217	248
Augusta 7766 (RR/VT2P)	206 ± 5	179	200	195	251
Augusta 1564 (GT/LL/CB)	206 ± 6	176	219	218	210

Table 8. (continued)

Hybrid [§]	Avg. Yield [†]				
	± Std Err (n=4)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.) (Non-Irr.)		<u>Milan</u> (Irr.)
	----- bu/a -----				
AgriGold A6579STX	202 ± 5	160	198	217	232
Beck's Hybrids 6674SX	201 ± 5	163	199	207	236
Warren Seed DS 9913SSX	201 ± 5	147	194	216	246
AgriGold A6573VT3PRIB	198 ± 6	158	188	224	222
Warren Seed DS 9314SSX	196 ± 5	152	188	199	247
Avg. (bu/a)	213	171	212	223	248
L.S.D._{.05} (bu/a)	12	19	21	26	33
C.V. (%)	7.0	6.6	5.8	6.9	7.9

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

‡ Three additional locations were planted but discarded.

- Milan non-irrigated: Drought at a crucial period during pollination caused differential yield losses that were likely influenced by hybrid flowering date (C.V. = 29%, mean = 87 bu/a).

- Ames Plantation: Heavy flooding caused poor germination and uneven stands. Late replant (May 30) resulted in poor yield and high within test variation (C.V. = 34%, mean = 113 bu/a).

- AgriCenter International: Heavy flooding caused poor germination and uneven stands (not harvested).

Table 9. Overall mean yields and agronomic characteristics of 40 medium-season corn hybrids evaluated in four[‡] REC tests in Tennessee during 2016.

Hybrid [§]	Avg. Yield [†]	Moisture	Test	Plant	Ear	Protein	Oil	Starch
	± Std Err (n=4)	at Harvest (n=4)	Weight (n=1)	Height (n=3)	Height (n=3)	(n=1)	(n=1)	(n=1)
	bu/a	%	lbs/bu	in.	in.	%	%	%
Steyer 11410 VT2PRORIBC	231 ± 5	17.4	59.7	111	51	10.0	4.6	72.1
LG Seeds LG5643VT2Pro	229 ± 5	16.6	59.5	115	49	9.3	3.8	73.6
LG Seeds LG5663VT2PRIB	229 ± 5	17.9	60.9	111	53	9.5	4.1	73.3
AgriGold A6572VT2PRO	228 ± 5	17.1	61.7	112	52	11.0	4.3	72.2
Steyer 11408 VT2PRORIBC	225 ± 5	18.3	60.4	108	49	9.7	4.1	73.5
LG Seeds LG5650VT2Pro	225 ± 5	17.1	61.7	112	53	10.0	4.3	72.7
AgriGold A6652VT2PRO	222 ± 5	17.2	58.9	111	50	9.4	3.9	73.6
Armor 1340 (VT2P)	221 ± 6	17.8	61.4	108	47	9.8	4.4	72.6
NK Seeds N76A-3000GT	220 ± 5	17.9	55.8	116	46	11.0	3.8	72.7
AgriGold A6659VT2RIB	219 ± 6	18.8	60.2	107	44	9.6	4.0	73.7
AgriGold A6559VT2RIB	219 ± 6	16.7	60.6	116	49	9.9	3.7	73.9
Dekalb DKC66-75 GENVT2P	216 ± 5	17.7	59.9	116	52	11.0	3.9	72.8
Dekalb DKC66-59 GENVT2P	216 ± 5	17.9	59.7	111	47	9.8	4.2	73.0
Progeny PGY 6116VT2P	215 ± 5	19.4	59.4	108	45	9.5	4.2	73.3
LG Seeds LG5701VT2RIB	215 ± 5	18.1	60.4	114	46	9.5	4.1	73.5
Armor 1500 (VT2P)	215 ± 6	18.3	60.3	109	49	9.5	4.1	73.2
Dyna-Gro D54VC52 (VT2P)	214 ± 5	17.9	60.4	111	49	9.8	4.0	73.5
Progeny PGY 4114VT2P	214 ± 5	17.0	60.8	112	45	9.5	3.9	73.5
Wyffels W7888RIB (RR/LL/SSX)	213 ± 5	18.0	61.1	100	42	9.6	4.6	72.6
Progeny PGY 5115VT2P	213 ± 5	17.6	59.7	107	44	9.5	3.9	74.0
Croplan 6926 (VT3P)	213 ± 5	17.1	62.2	102	38	9.6	4.4	73.1
Beck's Hybrids 6589V2P	213 ± 5	18.3	60.8	109	48	9.8	4.1	73.2
Wyffels W8918 (SSX)	212 ± 5	17.7	61.0	114	54	11.0	4.4	72.5
Terral-REV 25BHR26 (RR2/LL/YGCB/HX1)	212 ± 5	17.7	61.6	113	50	9.3	3.8	73.9
Dekalb DKC64-69 GENVT3P	212 ± 5	17.8	60.3	102	43	9.4	4.1	73.6
Steyer 11506 VT2PRORIBC	211 ± 5	17.9	58.8	111	47	9.2	4.3	72.9
Dekalb DKC64-34 GENSSRIB	211 ± 5	17.3	60.4	109	45	10.0	3.9	73.2
Wyffels W8268 (SSX)	211 ± 5	17.8	58.7	108	49	10.0	4.0	73.1
Dyna-Gro D54DC94 (VT2P/DG)	210 ± 5	17.4	58.8	115	51	9.6	4.0	73.1
Mycogen 2J794 (RR2/LL/HX1)	210 ± 5	17.9	56.5	110	48	10.0	3.7	73.5
Augusta 1565 (GT/LL/CB)	207 ± 5	18.3	58.8	116	53	10.0	4.0	73.3
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	207 ± 5	18.2	60.8	118	50	9.7	4.1	73.4
Pfister 3488HXRR (RR,LL,HX1)	206 ± 5	18.5	-	110	48	-	-	-
Augusta 7766 (RR/VT2P)	206 ± 5	17.9	60.3	113	49	9.1	4.4	72.8
Augusta 1564 (GT/LL/CB)	206 ± 6	17.6	56.1	116	43	11.0	3.5	73.0

Table 9. (continued)

Hybrid[§]	Avg. Yield[†] ± Std Err (n=4)	Moisture at Harvest (n=4)	Test Weight (n=1)	Plant Height (n=3)	Ear Height (n=3)	Protein (n=1)	Oil (n=1)	Starch (n=1)
	bu/a	%	lbs/bu	in.	in.	%	%	%
AgriGold A6579STX	202 ± 5	18.2	60.2	112	49	9.4	3.4	74.3
Beck's Hybrids 6674SX	201 ± 5	17.9	61.9	113	51	11.0	4.4	72.3
Warren Seed DS 9913SSX	201 ± 5	17.3	59.8	105	47	10.0	3.9	73.0
AgriGold A6573VT3PRIB	198 ± 6	16.9	58.3	105	42	10.0	3.9	73.0
Warren Seed DS 9314SSX	196 ± 5	17.1	57.8	100	49	11.0	4.0	72.6
Progeny EXP1615VT2P	196 ± 5	17.8	60.0	104	40	9.7	4.1	73.4
Warren Seed DS 9713SSX	193 ± 5	17.8	58.0	106	47	10.0	4.1	72.8
Average	213	17.7	59.8	110.1	47.7	9.9	4.1	73.2

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

‡ Three additional locations were planted but discarded.

- Milan non-irrigated: Drought at a crucial period during pollination caused differential yield losses that were likely influenced by hybrid flowering date (C.V. = 29%, mean = 87 bu/a).

- Ames Plantation: Heavy flooding caused poor germination and uneven stands. Late replant (May 30) resulted in poor yield and high within test variation (C.V. = 34%, mean = 113 bu/a).

- AgriCenter International: Heavy flooding caused poor germination and uneven stands (not harvested).

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

Table 10. Mean yields of 15 medium-season (114-116 DAP) corn hybrids evaluated in four REC tests for two years (2015-2016) in Tennessee (n=8).

Hybrid [§]	Avg. Yield [†]				
	± Std Err (n=8)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.)	<u>Springfield</u> (Non-Irr.)	<u>Milan</u> (Irr.)
----- bu/a -----					
AgriGold A6659VT2RIB	227 ± 4	215	233	208	253
AgriGold A6559VT2RIB	227 ± 4	216	227	200	263
LG Seeds LG5701VT2RIB	226 ± 3	217	239	201	247
LG Seeds LG5663VT2PRIB	223 ± 3	221	230	203	240
NK Seeds N76A-3000GT	223 ± 3	210	226	208	248
Dekalb DKC66-59 GENVT2P	222 ± 3	217	231	198	243
Progeny PGY 4114VT2P	220 ± 3	208	222	195	254
Progeny PGY 5115VT2P	218 ± 3	217	215	202	239
Terral-REV 25BHR26 (RR2/LL/YGCB/HX1)	218 ± 3	212	215	199	247
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	218 ± 3	209	222	195	245
AgriGold A6579STX	215 ± 3	215	214	191	239
Dekalb DKC64-69 GENVT3P	214 ± 3	212	213	190	240
AgriGold A6573VT3PRIB	211 ± 4	211	205	195	231
Warren Seed DS 9314SSX	204 ± 3	203	203	178	231
Warren Seed DS 9713SSX	199 ± 3	176	197	178	244
Avg. (bu/a)	218	211	219	196	244
L.S.D._{.05} (bu/a)	12	28	20	22	25
C.V. (%)	7.1	8.6	5.9	7.2	6.5

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

Table 11. Mean yields and agronomic characteristics of 15 medium-season corn hybrids evaluated in four REC tests for two years (2015-2016) in Tennessee (n=8).

Hybrid [§]	Avg. Yield [†]	Moisture (n=8)	Test Weight (n=2)	Plant Height (n=6)	Ear Height (n=6)	Protein [‡] (n=2)	Oil [‡] (n=2)	Starch [‡] (n=2)
	± Std Err (n=8)							
	bu/a	%	lbs/bu	in.	in.	%	%	%
AgriGold A6659VT2RIB	227 ± 4	18.4	58.9	103	44	9.3	4.5	73.2
AgriGold A6559VT2RIB	227 ± 4	16.1	59.8	109	47	9.6	4.2	73.3
LG Seeds LG5701VT2RIB	226 ± 3	18.2	59.1	105	43	9.2	4.5	73.3
LG Seeds LG5663VT2PRIB	223 ± 3	18.1	59.5	106	50	9.5	4.4	72.9
NK Seeds N76A-3000GT	223 ± 3	18.1	56.1	112	45	10.0	4.1	73.0
Dekalb DKC66-59 GENVT2P	222 ± 3	18.3	58.7	107	47	9.4	4.4	73.0
Progeny PGY 4114VT2P	220 ± 3	17.0	59.6	108	45	9.3	4.3	73.5
Progeny PGY 5115VT2P	218 ± 3	17.3	58.7	103	44	9.4	4.3	73.3
Terral-REV 25BHR26 (RR2/LL/YGCB/HX1)	218 ± 3	17.8	59.3	108	47	9.0	4.0	74.0
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	218 ± 3	18.1	59.3	109	47	9.2	4.6	73.2
AgriGold A6579STX	215 ± 3	18.2	58.4	105	47	9.1	4.1	73.8
Dekalb DKC64-69 GENVT3P	214 ± 3	17.6	59.5	97	42	9.4	4.6	72.9
AgriGold A6573VT3PRIB	211 ± 4	17.0	57.6	102	42	9.7	4.4	72.9
Warren Seed DS 9314SSX	204 ± 3	17.3	56.7	96	45	10.0	4.6	72.6
Warren Seed DS 9713SSX	199 ± 3	18.3	56.5	102	46	9.5	4.6	72.6
Average	218	17.7	58.5	105	45	9.4	4.4	73.2

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

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

Table 12. Mean yields of 8 medium-season (114-116 DAP) corn hybrids evaluated in four REC tests for three years (2014-2016) in Tennessee (n=12).

Hybrid [§]	Avg. Yield [†]				
	± Std Err (n=12)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.) (Non-Irr.)		<u>Milan</u> (Irr.)
	----- bu/a -----				
AgriGold A6659VT2RIB	220 ± 3	220	226	172	261
LG Seeds LG5701VT2RIB	219 ± 3	221	223	171	260
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	212 ± 3	211	214	161	260
Progeny PGY 5115VT2P	210 ± 3	211	212	171	247
Progeny PGY 4114VT2P	209 ± 3	204	204	173	254
Dekalb DKC64-69 GENVT3P	208 ± 3	210	210	167	245
Warren Seed DS 9314SSX	200 ± 3	202	201	162	235
Warren Seed DS 9713SSX	198 ± 3	184	195	156	257
Avg. (bu/a)	210	208	211	167	252
L.S.D._{.05} (bu/a)	12	24	24	23	24
C.V. (%)	7.6	7.9	7.6	9.2	6.4

†All yields are adjusted to 15.5% moisture.

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 13.

Table 13. Mean yields and agronomic characteristics of 8 medium-season corn hybrids evaluated in four REC tests for three years (2014-2016) in Tennessee (n=12).

Hybrid [§]	Avg. Yield [†]		Test		Plant	Ear	Protein [‡]	Oil [‡]	Starch [‡]
	± Std Err (n=12)	Moisture (n=12)	Weight (n=3)	Lodging (n=2)	Height (n=9)	Height (n=9)			
	bu/a	%	lbs/bu	%	in.	in.	%	%	%
AgriGold A6659VT2RIB	220 ± 3	19.2	58.7	0	99	40	9.0	4.7	73.1
LG Seeds LG5701VT2RIB	219 ± 3	19.0	58.8	0	101	40	8.8	4.6	73.3
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	212 ± 3	18.8	58.9	1	107	45	9.1	4.8	73.1
Progeny PGY 5115VT2P	210 ± 3	18.4	59.0	0	101	40	9.0	4.7	73.2
Progeny PGY 4114VT2P	209 ± 3	17.9	57.5	0	103	42	9.0	4.5	73.5
Dekalb DKC64-69 GENVT3P	208 ± 3	18.2	59.0	0	96	41	8.9	4.7	73.1
Warren Seed DS 9314SSX	200 ± 3	18.2	56.8	0	94	42	9.6	4.9	72.5
Warren Seed DS 9713SSX	198 ± 3	19.2	55.9	0	99	43	9.2	4.8	72.6
Average	210	18.6	58.1	0	100	42	9.1	4.7	73.1

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

Table 14. Mean yields of 20 full-season (>116 DAP) corn hybrids evaluated in five[‡] REC tests in Tennessee during 2016.

Hybrid [§]	Avg. Yield [†]	Knoxville		Springfield		Milan	Ames	
	± Std Err (n=5)	(Irr.)	(Irr.)	(Non-Irr.)	(Irr.)	(Non-Irr.)		
		----- bu/a -----						
Dekalb DKC67-44 GENVT2P	217 ± 5	209	238	234	257	146		
Dyna-Gro D58VC65	207 ± 5	209	235	207	245	138		
AgriGold A6711VT2PRO	206 ± 5	197	226	215	250	141		
Dekalb DKC67-14 GENVT2P	204 ± 5	201	229	203	251	137		
Beck's Hybrids 6873AM* (RR/LL)	203 ± 5	203	228	198	262	124		
Augusta 7768 (V3110)	200 ± 5	176	208	226	249	142		
Dekalb DKC68-26 GENVT2P	199 ± 5	182	218	202	253	142		
NK Seeds N83D-3000GT	199 ± 5	194	213	203	244	140		
AgriGold A6719VT2PRO	198 ± 5	183	225	216	244	120		
Croplan 7927 (VT3P/RIB)	197 ± 5	187	214	211	251	120		
Dekalb DKC67-72 GENVT2P	196 ± 5	209	207	221	228	116		
BiOWiSH BWTSBH1WCL	195 ± 5	205	209	172	228	162		
Caverndale Farms CF 894 VT2PRORIB	193 ± 5	182	209	215	235	128		
Augusta A7767 (VT2P)	192 ± 5	207	207	194	227	127		
Progeny PGY 4117VT3P	188 ± 5	167	216	176	252	127		
Terral-REV 28HR20 (RR/LL/HX1)	185 ± 5	138	193	214	247	135		
BiOWiSH BWTSBH1WOCL	184 ± 5	191	203	192	228	108		
Caverndale Farms CF 883 GTCBLL	176 ± 5	174	191	174	226	113		
TN EXP TN 1401Y	168 ± 5	147	193	192	199	-		
TN EXP TN 1503W	159 ± 5	142	183	175	190	-		
Avg. (bu/a)	193	185	212	202	238	131		
L.S.D._{.05} (bu/a)	13	24	34	33	26	31		
C.V. (%)	9.3	7.7	9.6	10.0	6.7	14.2		

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

† All yields are adjusted to 15.5% moisture.

‡ Two additional locations were planted but discarded.

- Milan non-irrigated: Drought at a crucial period during pollination caused differential yield losses that were likely influenced by hybrid flowering date (C.V. = 20%, mean = 94 bu/a).

- AgriCenter International: Heavy flooding caused poor germination and uneven stands (not harvested).

|| Cultivar not evaluated at the Ames location. Ames values were estimated using best linear unbiased predictors from a mixed model analysis of variance so that the hybrids could be included in the analysis of across location average yield performance.

Table 15. Overall mean yields and agronomic characteristics of 20 full-season corn hybrids evaluated in five REC tests in Tennessee during 2016.

Hybrid [§]	Avg. Yield [†]	Moisture	Test	Plant	Ear	Protein [‡]	Oil [‡]	Starch [‡]
	± Std Err (n=5)	at Harvest (n=5)	Weight (n=1)	Height (n=3)	Height (n=3)			
	bu/a	%	lbs/bu	in.	in.	%	%	%
Dekalb DKC67-44 GENVT2P	217 ± 5	17.8	60.6	113	51	9.6	4.6	73.0
Dyna-Gro D58VC65	207 ± 5	17.4	61.0	105	44	9.4	4.5	73.1
AgriGold A6711VT2PRO	206 ± 5	17.5	61.3	109	45	9.5	4.6	73.3
Dekalb DKC67-14 GENVT2P	204 ± 5	18.3	59.6	112	47	9.0	4.5	73.2
Beck's Hybrids 6873AM* (RR/LL)	203 ± 5	18.0	62.6	118	46	9.5	4.2	73.5
Augusta 7768 (V3110)	200 ± 5	21.3	57.2	118	49	10.0	4.3	73.0
Dekalb DKC68-26 GENVT2P	199 ± 5	17.8	60.8	111	44	9.4	4.6	72.8
NK Seeds N83D-3000GT	199 ± 5	20.0	59.2	118	48	9.7	4.4	73.2
AgriGold A6719VT2PRO	198 ± 5	17.7	60.7	120	52	10.0	4.6	72.5
Croplan 7927 (VT3P/RIB)	197 ± 5	17.3	59.9	117	49	9.1	4.5	72.9
Dekalb DKC67-72 GENVT2P	196 ± 5	17.7	60.7	106	45	9.5	4.4	73.2
BiOWiSH BWTSBH1WCL	195 ± 5	18.0	60.1	105	44	9.7	4.4	73.0
Caverndale Farms CF 894 VT2PRORIB	193 ± 5	18.8	59.5	112	48	9.2	4.6	73.3
Augusta A7767 (VT2P)	192 ± 5	18.5	59.3	110	45	9.4	4.6	73.2
Progeny PGY 4117VT3P	188 ± 5	18.0	59.7	111	49	9.4	4.6	72.7
Terral-REV 28HR20 (RR/LL/HX1)	185 ± 5	18.4	60.8	121	51	10.0	4.2	73.4
BiOWiSH BWTSBH1WOCL	184 ± 5	17.6	60.9	105	42	9.3	4.5	73.1
Caverndale Farms CF 883 GTCBLL	176 ± 5	20.2	60.6	118	46	10.0	4.1	73.4
TN EXP TN 1401Y [¶]	168 ± 5	19.3	55.9	117	54	9.8	4.4	72.7
TN EXP TN 1503W [¶]	159 ± 5	18.8	61.3	114	55	9.7	4.3	73.2
Average	193	18.4	60.1	113	48	9.6	4.4	73.1

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

† All yields are adjusted to 15.5% moisture.

‡ Two additional locations were planted but discarded.

- Milan non-irrigated: Drought at a crucial period during pollination caused differential yield losses that were likely influenced by hybrid flowering date. (C.V. = 20%, mean = 94 bu/a).

- AgriCenter International: Heavy flooding caused poor germination and uneven stands (not harvested).

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

¶ These cultivars were not evaluated at the Ames location. Ames values were estimated using BLUPs so that these hybrids could be included in the analysis of

Table 16. Mean yields of 13 full-season (>116 DAP) corn hybrids evaluated in five REC tests for two years (2015-2016) in Tennessee (n=10).

Hybrid [§]	Avg. Yield [†]					
	± Std Err (n=10)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.) (Non-Irr.)		<u>Milan</u> (Irr.)	<u>Ames</u> (Non-Irr.)
	----- bu/a -----					
Dekalb DKC67-14 GENVT2P	220 ± 3	239	249	178	267	170
AgriGold A6711VT2PRO	215 ± 3	226	234	192	253	168
Croplan 7927 (VT3P/RIB)	214 ± 3	224	237	198	259	151
Beck's Hybrids 6873AM* (RR/LL)	211 ± 3	230	239	167	269	148
AgriGold A6719VT2PRO	211 ± 3	219	242	187	258	147
Caverndale Farms CF 894 VT2PRORIB	208 ± 3	217	223	189	247	166
Dekalb DKC67-72 GENVT2P	207 ± 3	234	223	192	246	142
Augusta A7767 (VT2P)	207 ± 3	228	227	179	248	153
Terral-REV 28HR20 (RR/LL/HX1)	204 ± 3	203	214	184	260	158
Progeny PGY 4117VT3P	196 ± 3	200	228	158	242	150
Caverndale Farms CF 883 GTCBLL	187 ± 3	200	213	158	234	132
TN EXP TN 1401Y	183 ± 3	204	204	158	210	138
TN EXP TN 1503W	171 ± 3	177	197	152	206	122
Avg. (bu/a)	203	215	225	176	246	150
L.S.D._{.05} (bu/a)	10	24	24	26	19	25
C.V. (%)	7.9	7.5	7.3	10.1	5.4	11.1

†All yields are adjusted to 15.5% moisture.

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

Table 17. Mean yields and agronomic characteristics of ten full-season corn hybrids evaluated in five REC tests for two years (2015-2016) in Tennessee (n=10).

Hybrid [§]	Avg. Yield [†]	Moisture (n=10)	Test		Plant	Ear	Protein [‡] (n=2)	Oil [‡] (n=2)	Starch [‡] (n=2)
	± Std Err (n=10)		Weight (n=2)	Lodging (n=1)	Height (n=6)	Height (n=6)			
	bu/a	%	lbs/bu	%	in.	in.	%	%	%
Dekalb DKC67-14 GENVT2P	220 ± 3	18.0	59.9	0	107	47	9.0	4.5	73.3
AgriGold A6711VT2PRO	215 ± 3	18.0	60.5	0	104	44	9.1	4.7	73.4
Croplan 7927 (VT3P/RIB)	214 ± 3	17.8	59.2	1	113	49	9.1	4.6	72.9
Beck's Hybrids 6873AM* (RR/LL)	211 ± 3	18.7	61.2	0	111	44	9.2	4.5	73.4
AgriGold A6719VT2PRO	211 ± 3	18.1	60.3	0	115	52	9.7	4.6	72.7
Caverndale Farms CF 894 VT2PRORIB	208 ± 3	18.7	59.3	0	106	47	9.2	4.6	73.2
Dekalb DKC67-72 GENVT2P	207 ± 3	18.2	59.7	0	103	46	9.3	4.5	73.1
Augusta A7767 (VT2P)	207 ± 3	18.9	58.9	0	106	45	9.3	4.8	72.8
Terral-REV 28HR20 (RR/LL/HX1)	204 ± 3	19.0	60.1	0	117	50	9.7	4.4	73.3
Progeny PGY 4117VT3P	196 ± 3	18.0	59.6	0	106	48	9.2	4.8	72.6
Caverndale Farms CF 883 GTCBLL	187 ± 3	20.1	59.6	0	112	46	9.7	4.4	73.3
TN EXP TN 1401Y	183 ± 3	19.9	56.7	0	112	52	9.4	4.5	73.0
TN EXP TN 1503W	171 ± 3	19.9	59.9	1	110	54	9.5	4.6	72.9
Average	203	18.7	59.6	0	109	48	9.3	4.6	73.1

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

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

Table 18. Mean yields of five full-season (>116 DAP) corn hybrid evaluated in five REC tests for three years (2014-2016) in Tennessee (n=15).

Hybrid [§]	Avg. Yield [†]					
	± Std Err (n=15)	<u>Knoxville</u> (Irr.)	<u>Springfield</u> (Irr.) (Non-Irr.)		<u>Milan</u> (Irr.)	<u>Ames</u> (Non-Irr.)
----- bu/a -----						
Caverndale Farms CF 894 VT2PRORIB	205 ± 3	213	211	163	250	190
AgriGold A6719VT2PRO	203 ± 3	216	218	153	261	166
Progeny PGY 4117VT3P	195 ± 3	202	209	140	248	175
Terral-REV 28HR20 (RR/LL/HX1)	194 ± 3	210	189	142	243	186
TN EXP TN 1401Y	184 ± 3	201	192	144	218	163
Avg. (bu/a)	196	208	204	148	244	176
L.S.D._{.05} (bu/a)	11	23	29	30	18	26
C.V. (%)	8.6	7.4	9.8	13.3	5.1	9.8

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All Yields are adjusted to 15.5% moisture.

Table 19. Mean yields and agronomic characteristics of five full-season corn hybrid evaluated in five REC tests for three years (2014-2016) in Tennessee (n=15).

Hybrid [§]	Avg. Yield [†]		Test	Plant	Ear	Protein [‡]	Oil [‡]	Starch [‡]
	± Std Err (n=15)	Moisture (n=15)	Weight (n=3)	Height (n=9)	Height (n=9)	(n=3)	(n=3)	(n=3)
----- bu/a -----								
Caverndale Farms CF 894 VT2PRORIB	205 ± 3	18.9	59.0	103	43	9.0	4.9	72.9
AgriGold A6719VT2PRO	203 ± 3	18.5	58.8	111	48	9.3	4.7	72.8
Progeny PGY 4117VT3P	195 ± 3	18.2	58.7	105	46	8.8	4.8	73.0
Terral-REV 28HR20 (RR/LL/HX1)	194 ± 3	19.0	59.4	115	47	9.3	4.6	73.3
TN EXP TN 1401Y	184 ± 3	20.1	56.4	109	48	9.2	4.8	72.7
Average	196	18.9	58.5	109	46	9.1	4.8	72.9

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

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

Table 20. Yields of 21 early-season (<114 DAP) Roundup / stacked corn hybrids in 16 County Standard Tests in Tennessee and Kentucky during 2016. †

MS‡	HYBRID	AvgYld [§]	Moist	TstWt [¶]	Bent	Call	Carl	Croc	Coff	Dyer ^{††}	Frank	Fult	Fult ^{††}	Gibs	Gile	Hend	Henr ^{††}	Lake	Obio ^{††}	Weak
		bu/a	%	lb/bu	4/19 [#]	4/19	4/22	5/9	4/27	4/18	4/26	4/15	4/18	4/11	4/5	4/18	5/4	4/19	4/18	4/6
A	**AgriGold A6499	183	15.5	57.0	158	206	143	196	191	203	172	231	238	188	190	80	164	184	191	197
AB	Warren Seed DS9513	181	15.7	54.0	143	187	156	188	189	196	172	213	232	184	191	93	162	212	212	172
ABC	Croplan 5290	178	15.3	57.0	139	195	144	202	199	172	175	235	250	175	145	111	157	181	182	181
ABCD	Steyer 11306	177	15.1	57.5	148	184	185	179	189	189	168	209	204	182	185	113	176	185	159	183
ABCD	Mycogen 2Y744	176	15.1	55.0	129	181	160	179	157	183	150	207	210	179	178	100	166	185	194	191
ABCD	*Beck's 6365	175	15.3	55.5	143	206	144	204	206	209	172	221	231	151	133	83	160	168	171	196
ABCD	Beck's 6158	174	14.6	57.0	133	193	178	165	185	190	165	204	228	179	182	100	163	176	169	178
ABCD	*Croplan 6640	174	15.0	58.0	146	191	90	183	173	207	169	218	233	195	186	99	152	185	175	184
ABCD	*Dyna-Gro D52VC91	174	15.2	59.5	141	190	146	160	188	171	157	227	236	190	171	81	166	183	186	190
ABCD	Warren Seed DS9412	174	15.5	55.5	152	181	145	175	188	196	168	216	223	182	140	84	165	191	196	180
ABCD	AgriGold A6559	174	15.0	59.5	132	169	119	180	201	191	172	205	230	170	181	94	164	191	195	184
ABCD	Warren Seed DS9610	174	14.8	58.0	133	191	176	182	176	185	158	209	228	181	169	84	169	177	187	172
BCDE	LG Seeds LG5618VT2RIB	172	15.1	59.0	138	186	121	192	183	181	161	234	238	183	153	69	164	198	184	173
CDE	Terral 23BHR55	171	15.3	56.5	122	173	126	187	214	188	162	195	209	176	166	89	158	188	188	192
CDE	AgriGold A6442	171	15.1	57.5	139	180	109	184	190	195	171	205	221	180	145	80	158	187	193	191
CDE	Armor 1330	170	15.2	59.0	144	165	184	167	191	174	156	199	231	170	140	82	159	180	186	192
CDE	Steyer 11104	170	14.9	56.0	136	181	135	178	187	188	164	222	208	175	151	69	152	199	180	189
CDE	Augusta A4959	169	15.2	58.5	134	180	146	179	173	192	154	187	196	182	176	91	172	169	185	186
CDE	NK N59B-3111A	168	15.5	55.0	119	190	186	168	179	164	165	208	212	174	142	85	158	189	171	181
DE	Warren Seed DS9110	168	15.3	55.5	133	189	171	175	172	197	146	208	196	183	180	50	154	179	185	166
E	Augusta A5062	164	15.4	58.5	113	185	97	184	198	186	168	215	226	160	156	67	172	154	168	169
Average		173	15.2	57.1	137	186	146	181	187	188	164	213	223	178	165	86	162	184	184	183

† Data Provided by Ryan Blair, Ext. Area Specialist, Grain and Cotton Variety Testing, and Extension agents in counties shown above.

‡ 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 (*) were in the top performing "A" group for consecutive years.

§ YLD= Avg. Yield @ 15.5 % moisture

|| %M=Avg. % moisture across all locations.

¶ TstWt= Avg. test weight lbs/bu @ all locations.

Planting date

†† Indicates locations with irrigation

County Locations include: Benton, Calloway KY, Carlisle KY, Crockett, Coffee, Dyer, Franklin, Fulton KY, Gibson, Giles, Henderson, Henry, Lake, Obion, and Weakley.

Table 21. Yields of 27 medium-season (114-116 DAP) Roundup / stacked corn hybrids in 26 County Standard Tests in Tennessee and Kentucky during 2016.†

MS‡	HYBRID	AvgYld [§]	Moist	TstWt [¶]	Bent	Call	Cann ^{††}	Coff	Croc	Deca	Dyer ^{††}	Faye	Fran	Fult	Fult ^{††}	Gibs	Gile	Hard	Hayw	Henr ^{††}	Hick	Lake	Madi	McCr	Obio	Perr	Robe	Smit	Wayn	Weak
		bu/a	%	lb/bu	4/19 [‡]	4/19	4/26	4/26	4/7	4/23	4/18	4/8	4/6	4/15	4/18	4/11	4/19	4/22	5/14	5/4	4/26	5/9	4/20	4/25	4/18	4/22	4/20	4/19	5/11	4/6
A	LG Seeds 5663VT2RIB	193	15.0	60.0	172	202	231	169	179	249	226	116	211	230	231	179	175	143	122	171	219	181	218	198	193	192	224	236	173	186
AB	**Dyna-Gro D56VC46	190	15.1	58.5	147	196	206	152	165	230	232	106	196	221	232	174	168	128	129	193	217	190	222	188	201	197	223	251	201	164
AB	Armor 1500	189	15.1	59.0	184	200	227	170	178	233	221	110	183	223	231	165	177	148	115	179	227	178	186	190	222	189	209	236	177	167
ABC	Beck's 6589	189	14.8	58.0	163	203	231	157	166	251	225	107	196	218	233	175	157	143	128	182	231	154	198	186	202	188	210	238	182	177
ABCD	Augusta A6664	188	14.5	59.0	144	177	215	150	148	243	212	136	200	230	233	175	197	148	125	174	200	145	222	173	201	208	233	249	161	175
ABCDE	Dyna-Gro D54VC52	187	14.8	58.0	159	195	201	169	162	223	215	118	212	231	223	182	171	125	124	186	223	155	201	189	201	222	223	238	149	172
BCDE	Armor 1414	187	14.6	58.0	161	188	207	143	170	244	206	124	217	228	237	171	166	160	116	175	204	163	203	174	211	203	204	229	181	165
BCDEF	Dekalb 65-20	186	15.1	62.0	154	193	222	164	179	217	230	111	195	233	238	160	174	146	129	158	181	142	188	173	200	199	247	246	188	177
BCDEF	Steyer 11408	185	14.8	59.0	165	208	218	173	169	233	213	109	193	216	212	180	164	155	117	180	200	117	197	183	206	221	212	238	164	172
BCDEFG	Dyna-Gro D54DC94	185	14.7	53.0	173	197	214	130	156	230	201	117	200	229	234	168	189	143	123	170	201	159	195	175	219	182	214	237	189	165
BCDEFGH	AgriGold A6579	184	14.6	58.5	152	180	234	172	168	210	208	104	198	213	217	167	184	145	125	190	197	151	197	188	190	200	221	248	175	160
BCDEFGH	Dekalb 66-59	184	14.8	58.0	179	195	214	154	173	222	210	110	188	228	229	173	173	157	120	173	204	153	202	169	198	191	217	245	161	153
CDEFGHI	NK N76A-3010	183	14.7	56.5	163	176	221	158	180	217	221	107	195	208	207	170	170	155	114	181	189	169	199	184	195	181	203	239	180	168
DEFGHI	Croplan 5570	182	14.7	59.0	162	185	209	144	178	250	219	116	194	225	237	180	165	127	125	173	200	146	210	173	210	176	220	223	119	176
DEFGHI	Progeny 4114	182	14.3	60.0	159	204	205	158	169	226	219	118	191	215	208	153	159	130	116	193	202	147	189	187	177	202	203	226	209	169
DEFGHI	Warren Seed DS9314	182	14.6	58.5	169	185	203	169	168	202	211	138	188	209	208	170	188	154	120	163	187	151	197	178	182	214	211	211	195	159
DEFGHI	Mycogen 2J794	182	15.2	57.0	153	198	220	149	177	221	203	101	206	202	223	172	190	145	122	180	204	177	197	175	182	204	198	220	156	153
DEFGHI	Steyer 11506	182	14.8	58.0	153	196	203	173	195	209	189	96	202	216	224	152	174	151	121	176	200	158	194	180	198	176	186	235	176	187
DEFGHI	Progeny 6116	182	15.2	58.0	149	190	202	155	170	220	235	93	186	212	226	173	170	151	122	175	208	140	229	188	176	187	205	231	157	169
EFGHI	Terral 25BHR26	181	14.7	60.0	166	194	231	142	166	228	193	70	202	217	199	165	179	141	122	196	216	150	196	183	201	173	208	234	168	167
EFGHI	Progeny 4115	181	14.8	60.0	159	186	204	160	164	216	195	96	189	224	217	177	136	160	127	189	197	147	213	180	189	218	201	239	163	160
EFGHI	Warren Seed DS9913	181	14.7	58.0	147	201	198	157	175	213	209	106	190	215	207	163	171	159	126	166	190	175	169	182	204	196	190	227	204	163
FGHI	Augusta A7766	180	14.6	52.5	158	179	211	152	158	215	224	108	212	212	213	165	182	152	127	179	189	127	186	180	200	193	208	244	157	152
GHI	Beck's 6418	179	14.9	58.5	149	187	213	172	174	220	198	110	200	215	223	167	170	137	125	173	197	100	207	172	192	200	202	238	151	153
HI	Warren Seed DS9713	179	14.9	52.0	149	202	217	126	125	228	206	91	209	211	187	170	177	164	119	181	193	154	192	171	181	186	202	233	204	163
I	Terral 24BHR93	178	14.8	60.0	142	187	207	157	153	224	198	100	197	199	200	151	155	142	124	175	200	147	206	181	194	179	215	234	189	163
I	Mycogen 2C797	177	14.4	58.5	179	177	201	168	157	221	218	97	185	219	203	168	152	126	113	187	199	124	166	184	179	190	210	234	191	164
	Average	184	14.8	58.1	160	192	214	157	167	226	212	108	198	218	220	169	172	146	122	178	203	152	199	181	196	195	211	236	175	167

† Data Provided by Ryan Blair, Ext. Area Specialist, Grain and Cotton Variety Testing, and Extension agents in counties shown above.

‡ 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 (*) were in the top performing "A" group for consecutive years.

§ YLD= Avg. Yield @ 15.5 % moisture

|| %M=Avg. % moisture across all locations.

¶ TstWt= Avg. test weight lbs/bu @ all locations.

Planting date

†† Indicates locations with irrigation

County Locations include: Benton, Calloway KY, Cannon, Coffee, Crockett, Decatur, Dyer, Fayette, Franklin, Fulton KY, Gibson, Giles, Hardeman, Haywood, Henry, Hickman, Lake, Madison, McCracken Ky, Obion, Perry, Robertson, Smith, Wayne, and Weakley.

Table 22. Yields of 14 full-season (> 116 DAP) Roundup / stacked corn hybrids in 18 County Standard Tests in Tennessee and Kentucky during 2016.†

MS‡	HYBRID	AvgYld [§]	Moist	TstWt [¶]	Bent	Cann ^{††}	Coff	Callo	Dyer	Faye	Frank	Gibs	Giles	Hard	Henr1 ^{††}	Henr2	Hick	Lake ^{††}	Madi	Monr	Mont	Weak
		bu/a	%	lb/bu	4/19 [#]	4/26	4/27	4/19	4/12	4/8	4/12	4/11	4/5	4/22	5/4	4/20	4/26	4/15	4/26	5/16	4/11	4/6
A	Dekalb 67-14	177	15.8	57.0	155	220	216	215	181	91	90	193	158	151	191	224	203	193	166	164	203	211
AB	Dekalb 68-26	172	16.3	55.1	176	233	206	215	206	147	79	145	165	118	185	234	161	180	170	175	161	208
ABC	*Dekalb 67-72	171	16.2	54.9	177	208	199	210	200	134	87	168	166	121	191	230	170	187	167	183	170	174
ABC	*AgriGold A6659	170	16.0	57.5	164	212	218	202	167	114	91	168	144	161	197	227	175	174	156	196	175	179
ABC	****Dyna-Gro D57VP51	169	16.0	57.7	160	200	198	207	184	128	85	183	137	153	183	232	177	191	174	153	177	181
ABCD	NK N83D-3000GT	169	17.1	57.5	152	216	222	208	189	86	93	162	156	142	190	225	187	171	189	162	187	158
ABCD	AgriGold A6711	168	16.2	55.0	175	199	185	210	194	131	104	171	177	144	163	221	173	172	154	150	173	188
BCDE	Armor 1717	165	16.1	56.1	156	221	190	182	181	96	85	169	160	157	181	208	153	188	156	176	153	202
CDE	Beck's 6873	165	16.5	55.6	133	240	204	180	191	103	76	135	154	123	162	195	195	195	172	178	195	161
CDE	Croplan 8621	165	15.9	56.7	162	213	196	183	195	132	96	150	150	139	183	182	149	182	163	168	149	189
DE	Augusta A7767	160	16.2	55.5	166	194	201	193	178	113	67	159	135	160	167	244	152	166	151	162	152	168
DE	Mycogen 2D848	159	17.3	56.9	166	192	171	187	193	134	92	163	156	136	176	202	142	180	178	142	142	176
E	Terral 28HR20	158	16.8	54.9	142	206	188	197	178	93	77	156	127	124	174	198	174	184	183	160	174	168
E	Steyer 11702	157	16.9	55.6	155	209	205	196	199	102	68	163	143	129	190	210	121	187	167	154	121	162
Average		166	16.4	56.1	160	212	200	199	188	115	85	163	152	140	181	217	167	182	168	166	167	180

† Data Provided by Ryan Blair, Ext. Area Specialist, Grain and Cotton Variety Testing, and Extension agents in counties shown above.

‡ 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 (*) were in the top performing "A" group for consecutive years.

§ YLD= Avg. Yield @ 15.5 % moisture

|| %M=Avg. % moisture across all locations.

¶ TstWt= Avg. test weight lbs/bu @ all locations.

Planting date

†† Indicates locations with irrigation

County Locations include: Benton, Calloway KY, Cannon, Coffee, Dyer, Fayette, Franklin, Gibson, Giles, Hardeman, Henry(2), Hickman, Lake, Madison, Monroe, Montgomery, and Weakley.

Table 23. Overall average yields, moistures, and test weights of 17 early-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2016

Hybrid [§]	Avg. of CST and REC Tests			CST Tests			REC Tests		
	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
Croplan 5290DG (VT2P/RIB)	203	16.5	57.1	178	15.3	57.0	228	17.8	57.1
Croplan 6640 (VT3P/RIB)	199	16.3	58.7	174	15.0	58.0	223	17.6	59.3
Warren Seed DS 9513SSX	197	17.6	54.5	181	15.7	54.0	213	19.5	55.0
AgriGold A6499STXRIB	197	16.9	56.1	183	15.5	57.0	210	18.4	55.2
Beck's Hybrids 6158AM* (RR/LL)	197	15.0	58.2	174	14.6	57.0	219	15.4	59.4
LG Seeds LG5618VT2RIB	196	16.3	58.6	172	15.1	59.0	220	17.4	58.2
Beck's Hybrids 6365AM* (RR/LL)	194	16.6	56.0	175	15.3	55.5	214	17.9	56.4
AgriGold A6442VT2RIB	194	15.7	57.7	171	15.1	57.5	218	16.4	57.9
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	191	16.4	55.1	171	15.3	56.5	212	17.6	53.7
Augusta 5062 (V3110)	191	16.8	58.4	164	15.4	58.5	218	18.1	58.2
NK Seeds N59B-3111A	190	16.3	56.4	168	15.5	55.0	211	17.0	57.7
Warren Seed DS 9610 (3000GT)	189	15.9	58.5	174	14.8	58.0	205	17.0	58.9
Augusta 4959 (V3110)	189	16.1	58.5	169	15.2	58.5	209	17.1	58.4
Steyer 11306 VT2PRORIBC	188	15.8	57.5	177	15.1	57.5	198	16.4	57.4
Warren Seed DS 9412SSX	186	16.5	52.3	174	15.5	55.5	199	17.5	49.0
Warren Seed DS 9110RA	183	16.0	55.1	168	15.3	55.5	199	16.6	54.6
Mycogen 2Y744 (RR2)	183	16.0	54.1	176	15.1	55.0	190	16.9	53.2
Average	192	16.3	56.6	173	15.2	56.8	211	17.3	56.4

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

Table 24. Overall average yields, moistures, and test weights of 18 medium-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2016

Hybrid [§]	Avg. of CST and REC Tests			CST Tests			REC Tests		
	Avg. Yield	Test Moisture	Test Weight	Avg. Yield	Test Moisture	Test Weight	Avg. Yield (n=4)	Test Moisture (n=4)	Test Weight (n=1)
	bu/a	%	lbs/bu	bu/a	%	lbs/bu	bu/a	%	lbs/bu
LG Seeds LG5663VT2PRIB	211	16.5	60.5	193	15.0	60.0	229	17.9	60.9
Steyer 11408 VT2PRORIBC	205	16.5	59.7	185	14.8	59.0	225	18.3	60.4
Armor 1500 (VT2P)	202	16.7	59.7	189	15.1	59.0	215	18.3	60.3
Beck's Hybrids 6589V2P	201	16.6	59.4	189	14.8	58.0	213	18.3	60.8
Dyna-Gro D54VC52 (VT2P)	201	16.3	59.2	187	14.8	58.0	214	17.9	60.4
Dekalb DKC66-59 GENVT2P	200	16.4	58.9	184	14.8	58.0	216	17.9	59.7
Progeny PGY 6116VT2P	198	17.3	58.7	182	15.2	58.0	215	19.4	59.4
Progeny PGY 4114VT2P	198	15.6	60.4	182	14.3	60.0	214	17.0	60.8
Dyna-Gro D54DC94 (VT2P/DG)	198	16.0	55.9	185	14.7	53.0	210	17.4	58.8
Terral-REV 25BHR26 (RR2/LL/YGCB/HX1)	197	16.2	60.8	181	14.7	60.0	212	17.7	61.6
Steyer 11506 VT2PRORIBC	196	16.3	58.4	182	14.8	58.0	211	17.9	58.8
Mycogen 2J794 (RR2/LL/HX1)	196	16.5	56.8	182	15.2	57.0	210	17.9	56.5
AgriGold A6579STX	193	16.4	59.4	184	14.6	58.5	202	18.2	60.2
Augusta 7766 (RR/VT2P)	193	16.2	56.4	180	14.6	52.5	206	17.9	60.3
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	192	16.5	60.4	178	14.8	60.0	207	18.2	60.8
Warren Seed DS 9913SSX	191	16.0	58.9	181	14.7	58.0	201	17.3	59.8
Warren Seed DS 9314SSX	189	15.8	58.2	182	14.6	58.5	196	17.1	57.8
Warren Seed DS 9713SSX	186	16.3	55.0	179	14.9	52.0	193	17.8	58.0
Average	197	16.3	58.7	184	14.8	57.6	211	17.9	59.7

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

Table 25. Overall average yields, moistures, and test weights of 8 full-season corn hybrids evaluated in County Standard Tests and Research and Education Center Tests in Tennessee during 2016.†

Hybrid [§]	Avg. of CST and REC Tests			CST Tests			REC Tests		
	Avg. Yield	Moisture	Test Weight	Avg. Yield	Moisture	Test Weight	Avg. Yield (n=5)	Moisture (n=5)	Test Weight (n=1)
	bu/a	%	lbs/bu	bu/a	%	lbs/bu	bu/a	%	lbs/bu
Dekalb DKC67-14 GENVT2P	190	17.1	58.3	177	15.8	57.0	204	18.3	59.6
AgriGold A6711VT2PRO	187	16.9	58.2	168	16.2	55.0	206	17.5	61.3
Dekalb DKC68-26 GENVT2P	186	17.1	58.0	172	16.3	55.1	199	17.8	60.8
NK Seeds N83D-3000GT	184	18.5	58.4	169	17.1	57.5	199	20.0	59.2
Beck's Hybrids 6873AM* (RR/LL)	184	17.3	59.1	165	16.5	55.6	203	18.0	62.6
Dekalb DKC67-72 GENVT2P	184	17.0	57.8	171	16.2	54.9	196	17.7	60.7
Augusta 7768 (V3110)	180	18.8	56.4	160	16.2	55.5	200	21.3	57.2
Terral-REV 28HR20 (RR/LL/HX1)	171	17.6	57.9	158	16.8	54.9	185	18.4	60.8
Average	183	17.5	58.0	168	16.4	55.7	199	18.6	60.3

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

†All yields are adjusted to 15.5% moisture.

Table 26. Characteristics, as described by the seed company, of corn hybrids evaluated in yield tests in Tennessee during 2016.

Hybrid \$	Grain Color	Maturity	Herbicide Tolerance	BT Gene	Refuge	Released or Experimental	Seed Treatment
AgriGold A6442VT2RIB		109	RR2	VT2P	RIB	R	Poncho 500, Votivo
AgriGold A6472VT2RIB	Y	110	RR2	VT2P	RIB	R	P500, Votivo
AgriGold A6499STXRIB	Y	112	RR2, LL	SSX	RIB	R	Poncho 500, Votivo
AgriGold A6517VT3PRIB	Y	113	RR2	VT3P	RIB	R	Poncho 500, Votivo
AgriGold A6544VT2PRO		113	RR2	VT2P		R	Poncho 500, Votivo
AgriGold A6559VT2RIB	Y	113	RR2	VT2P	RIB	R	Poncho 500, Votivo
AgriGold A6572VT2PRO		114	RR2	VT2P		R	Poncho 500, Votivo
AgriGold A6573VT3PRIB	Y	114	RR2	VT3P	RIB	R	Poncho 500, Votivo
AgriGold A6579STX	Y	114	RR2, LL	SSX		R	Poncho 500, Votivo
AgriGold A6652VT2PRO		116	RR2	VT2P		R	Poncho 500, Votivo
AgriGold A6659VT2RIB	Y	116	RR2	VT2P	RIB	R	Poncho 500, Votivo
AgriGold A6711VT2PRO	Y	118	RR2	VT2P		R	Poncho 500, Votivo
AgriGold A6719VT2PRO	Y	118	RR2	VT2P		R	Poncho 500, Votivo
Armor 0909 (VT2P)		109	RR2	VT2P		R	A500, Votivo
Armor 1500 (VT2P)		115	RR2	VT2P		R	A500, Votivo
Armor 1100 (VT2P)		111	RR2	VT2P		R	A500, Votivo
Armor AXT6113 (VT2P)		113	RR2	VT2P		R	A500, Votivo
Armor 1340 (VT2P)		114	RR2	VT2P		R	A500, Votivo
Augusta 1108 (VT2P)		108	RR	VT2P		R	
Augusta 1564 (GT/LL/CB)		114	GT, LL	CB		R	
Augusta 1565 (GT/LL/CB)		115	GT, LL	CB		R	
Augusta 4959 (V3110)		109	GT, LL	VIP3110		R	
Augusta 5062 (V3110)		112	GT, LL	VIP3110		R	
Augusta 7766 (RR/VT2P)		116	RR2	VT2P		R	
Augusta 7768 (V3110)		118	GT, LL	VIP3110		R	
Augusta A7767 (VT2P)	Y	117	RR2	VT2P		R	
Beck's Hybrids 5828AM* (RR/LL)	Y	110	RR2, LL	AM		R	Escalate
Beck's Hybrids 6158AM* (RR/LL)	Y	111	RR2, LL	AM		R	Escalate
Beck's Hybrids 6225HR* (HX1)		112	RR2, LL	HX1		R	Escalate
Beck's Hybrids 6365AM* (RR/LL)	Y	113	RR2, LL	AM		R	Escalate
Beck's Hybrids 6589V2P		115	RR2	VT2P		R	Escalate
Beck's Hybrids 6674SX		116	RR2, LL	SSX		R	Escalate
Beck's Hybrids 6873AM* (RR/LL)	Y	118	RR2, LL	AM		R	Escalate
BiOWiSH BWTSBH1WCL						E	
BiOWiSH BWTSBH1WOCL						E	
Caverndale Farms 793 VIP 3110		109	GT, LL	VIP3110		R	Cruiser 250 with Vibrance
Caverndale Farms 839 3000GT		113	GT, LL	3000GT		R	Cruiser 250 with Vibrance
Caverndale Farms CF 883 GTCBLL	Y	117	GT, LL	BT		R	Cruiser 250
Caverndale Farms CF 894 VT2PRORIB	Y	117	RR2	VT2P	RIB	R	Acceleron 250
Croplan 5290DG (VT2P/RIB)		112	RR2	VT2P, DG	RIB	R	Acceleron
Croplan 6640 (VT3P/RIB)	Y	113	RR2	VT3P	RIB	R	Acceleron
Croplan 6926 (VT3P)	Y	114	RR2	VT3P	RIB	R	Acceleron
Croplan 7927 (VT3P/RIB)	Y	117	RR2	VT3P	RIB	R	Acceleron

Table 26. (continued)

Hybrid §	Grain Color	Maturity	Herbicide Tolerance	BT Gene	Refuge	Released or Experimental	Seed Treatment
Dekalb DKC62-08 GENSS	Y	112	RR2, LL	SSX		R	Poncho 500, Acceleron
Dekalb DKC64-34 GENSSRIB		114	RR2, LL	SSX	RIB	R	Poncho 500, Acceleron
Dekalb DKC64-69 GENVT3P	Y	114	RR2	VT3P		R	Poncho 500, Acceleron
Dekalb DKC66-59 GENVT2P	Y	116	RR2	VT2P		R	Poncho 500, Acceleron
Dekalb DKC66-75 GENVT2P		116	RR2	VT2P		R	Poncho 500, Acceleron
Dekalb DKC67-14 GENVT2P	Y	117	RR2	VT2P		R	Poncho 500, Acceleron
Dekalb DKC67-44 GENVT2P		117	RR2	VT2P		R	Poncho 500, Acceleron
Dekalb DKC67-72 GENVT2P	Y	117	RR2	VT2P		R	Poncho 500, Acceleron
Dekalb DKC68-26 GENVT2P		118	RR2	VT2P		R	Poncho 500, Acceleron
Dyna-Gro D58VC65		118	RR2	VT2P		E	Acceleron, Poncho 500
Dyna-Gro D54DC94 (VT2P/DG)		114	RR2	VT2P, DG	RIB	R	Acceleron, Poncho 500
Dyna-Gro D54VC52 (VT2P)		114	RR2	VT2P		R	Acceleron, Poncho 500
LG Seeds LG5548STXRIB		109	RR2, LL	SSX	RIB	R	Poncho 500, Votivo
LG Seeds LG5554-3111		108	GT, LL	VIP3111		R	Poncho 500, Votivo
LG Seeds LG5618VT2RIB	Y	112	RR2	VT2P	RIB	R	Poncho 500, Votivo
LG Seeds LG5643VT2Pro		114	RR2	VT2P		R	Poncho 500, Votivo
LG Seeds LG5650VT2Pro		114	RR2	VT2P		R	Poncho 500, Votivo
LG Seeds LG5663VT2PRIB	Y	115	RR2	VT2P	RIB	R	Poncho 500, Votivo
LG Seeds LG5701VT2RIB	Y	116	RR2	VT2P	RIB	R	Poncho 500, Votivo
Mycogen 2J794 (RR2/LL/HX1)	Y	115	RR2, LL	HX1		R	CruiserMaxx 1250
Mycogen 2Y744 (RR2)	Y	112	RR2			R	CruiserMaxx 1250
Mycogen X13813VH (RR2/Bt)	Y	113	RR2	BT		E	CruiserMaxx 1250
Mycogen X13823S3 (RR2/BT)		113	RR2	BT		E	CruiserMaxx 1250
Mycogen X14677VH (RR2/BT)		113	RR2	BT		E	CruiserMaxx 1250
Mycogen X14730VH (RR2/BT)		113	RR2	BT		E	CruiserMaxx 1250
NK Seeds N59B-3111A	Y	109	GT, LL	VIP3111A		R	Apron, Fludioxonil, Maxim, Dynasty, Vibrance, Cruiser, Avicta
NK Seeds N66V-3000GT	Y	110	GT, LL	3000GT		R	Apron, Fludioxonil, Maxim, Dynasty, Vibrance, Cruiser, Avicta
NK Seeds N76A-3000GT	Y	114	GT, LL	3000GT		R	Apron, Fludioxonil, Maxim, Dynasty, Vibrance, Cruiser, Avicta
NK Seeds N83D-3000GT	Y	118	GT, LL	3000GT		R	Apron, Fludioxonil, Maxim, Dynasty, Vibrance, Cruiser, Avicta
Pfister 3488HXRR (RR,LL,HX1)		115	RR, LL	HX1		R	Cruiser
Progeny EXP1615VT2P		115	RR2	VT2P		E	Poncho 500, Votivo
Progeny PGY 4114VT2P	Y	114	RR2	VT2P		R	Poncho 500, Votivo
Progeny PGY 4117VT3P	Y	117	RR2	VT3P		R	Poncho 500, Votivo
Progeny PGY 5115VT2P	Y	115	RR2	VT2P		R	Poncho 500, Votivo
Progeny PGY 6110VT2P		110	RR2	VT2P		R	Poncho 500, Votivo
Progeny PGY 6116VT2P		116	RR2	VT2P		R	Poncho 500, Votivo

Table 26. (continued)

Hybrid[§]	Grain Color	Maturity	Herbicide Tolerance	BT Gene	Refuge	Released or Experimental	Seed Treatment
Steyer 11306 VT2PRORIBC		113	RR2	VT2P	RIB	R	Surestand - Maxim, Quattro, Cruiser 250
Steyer 11408 VT2PRORIBC		114	RR2	VT2P	RIB	R	Surestand - Maxim, Quattro, Cruiser 250
Steyer 11506 VT2PRORIBC		115	RR2	VT2P	RIB	R	Surestand - Maxim, Quattro, Cruiser 250
Steyer 11410 VT2PRORIBC		114	RR2, LL	SSX	RIB	R	Surestand - Maxim, Quattro, Cruiser 250
Terral-REV 18BHR84 (RR2/LL/YGCB/HX1)	Y	108	RR2, LL	YGCB, HX1		R	Maxim-Quattro, Poncho1250, Votivo
Terral-REV 22BHR43 (RR2/LL/YGCB/HX1)	Y	112	RR2, LL	YGCB, HX1		R	Maxim-Quattro, Poncho1250, Votivo
Terral-REV 23BHR55 (RR2/LL/YGCB/HX1)	Y	113	RR2, LL	YGCB, HX1		R	Maxim-Quattro, Poncho1250, Votivo
Terral-REV 24BHR93 (RR2/LL/YGCB/HX1)	Y	114	RR2, LL	YGCB, HX1		R	Maxim-Quattro, Poncho1250, Votivo
Terral-REV 25BHR26 (RR2/LL/YGCB/HX1)	Y	115	RR2, LL	YGCB, HX1		R	Maxim-Quattro, Poncho1250, Votivo
Terral-REV 28HR20 (RR/LL/HX1)	Y	118	RR2, LL	HX1		R	Maxim-Quattro, Poncho1250, Votivo
TN EXP TN 1401Y	Y	Full				E	CruiserMaxx
TN EXP TN 1503W	Y	Full				E	CruiserMaxx
Warren Seed DS 9110RA		110	RR2, LL		RA	R	Cruiser Maxx 250
Warren Seed DS 9314SSX	Y	114	RR2, LL	SSX		R	Cruiser Maxx 250
Warren Seed DS 9412SSX	Y	112	RR2, LL	SSX		R	Cruiser Maxx 250
Warren Seed DS 9513SSX		113	RR2, LL	SSX		R	Cruiser Maxx 250
Warren Seed DS 9610 (3000GT)	Y	110	GT, LL	3000GT		R	Cruiser Maxx 250
Warren Seed DS 9713SSX	Y	115	RR2, LL	SSX		R	Cruiser Maxx 250
Warren Seed DS 9913SSX		114	RR2, LL	SSX		R	Cruiser Maxx 250
Wyffels W7696RIB (VT2P)		113	RR2	VT2P		R	Poncho 500, Votivo
Wyffels W7888RIB (RR/LL/SSX)	Y	114	RR2, LL	SSX		R	Poncho 500, Votivo
Wyffels W8268 (SSX)		116	RR2, LL	SSX		R	Poncho 500, Votivo
Wyffels W8918 (SSX)		116	RR2, LL	SSX		R	Poncho 500, Votivo

§ If a trait appears inside parentheses i.e. (RR/CB), then it is not part of the hybrid name. For a full description of abbreviated biotech traits, see table 28.

Table 27. Contact information for corn hybrid seed companies evaluated in yield tests in Tennessee during 2016.

Company	Contact	Phone	Email	Web site
Agrigold Hybrids	Justin Warren	618-943-5776	justin.warren@agrigold.com	www.agrigold.com
Armor Seed	Lane Dill	901-233-0274	lanedill@armorseed.com	www.armorseed.com
Augusta Seed Corporation	Matt Rawley	540-886-6055	matt.rawley@augustaseed.com	www.augustaseed.com/
Beck's Superior Hybrids (Beck's & XL Brand)	Daniel Bechman	800-937-2325	daniel.bechman@beckshybrids.com	www.beckshybrids.com
BiOWiSH Technologies, Inc.	Bill Diederich	402-321-6568		https://biowishtechologies.com/
Caverndale Farms	AgCentral Farmers Cooperative			www.caverndalefarms.com
Croplan Genetics (Winfield)	Caleb Robertson	731-614-5234	clrobertson@landolakes.com	www.croplangenetics.com www.monsanto.com
Monsanto (Dekalb)	Larry Ganann	901-326-7140	larry.w.ganann@monsanto.com	www.dekalb.com
Dyna-Gro Seed	Brandon Sheridan	901-461-3061	brando.sheridan@cpsagu.com	www.dynagroseed.com
LG Seeds	Security Seed and Chemical	931-485-7333		www.lgseeds.com/
Mycogen Seed	Tom McDow Jeff Jetton	901-495-5137 901-229-0582	tmmcdow@dow.com jjetton@dow.com	www.mycogen.com
NK Brand (Syngenta)	Mike Saxton	270-792-5885	mike.saxton@syngenta.com	www.nk-us.com
Progeny Ag Products	Hillary Spain	870-208-6032	hillary@progenyag.com	www.progenyag.com/
Pfister Seeds, LLC	Nicky Dunbar	270-625-3996	ndunbar@pfisterseeds.com	http://www.pfisterseeds.com/
Steyer Seeds	Kevin Swanks	423-506-1008	kevinswanks@steyerseeds.com	www.steyerseeds.com
Terral Seed Inc (Rev Brand)	Ricky Davis	901-355-2463	rdavis@terralseed.com	www.terralseed.com
University of Tennessee	Dennis West	865-974-8826	dwest3@utk.edu	
Warren Seed	Lanny Warren	731-234-2921	lanny.warren@charter.net	www.dairylandseed.com
Wyffels Hybrids	Greg Triplett	270-775-5078	gtriplett@wyffels.com	www.wyffels.com

Table 28. Abbreviations used to identify biotech traits of corn grain hybrids evaluated in Tennessee during 2016.

Abbreviation	Name	Characteristic
3000GT	Syngenta Agrisure® 3000GT	Cry1Ab, Modified Cry3A. Protection from Corn Borer, Western, Northern and Mexican Corn Rootworm. Glufosinate tolerance and Glyphosate tolerance. Event: SYTGA21+Bt11+MIR604
AM	AcreMax	Cry1F, Cry1Ab. Protection from Black Cutworm, Eastern Corn Borer, Fall Armyworm, Sugarcane Borer, Southern Corn Borer, Western Bean Cutworm, Corn Earworm. Glufosinate tolerance and Glyphosate tolerance.
CB/LL	Agrisure CB/LL	Cry1Ab, PAT. Protection from Corn Borer. Event: Bt11
DG	Genuity DroughtGard™	Event: MON 87460
GT	Syngenta Agrisure® GT	Glyphosate tolerance. Event: SYTGA21
HX1	DowAgrosciences Pioneer Hi-Bred Herculex® I	Cry1F. Protection from Western Bean Cutworm, Corn Borer, Black Cutworm and Fall Armyworm resistance. Glufosinate herbicide tolerance. Event: TC1507
LL	Bayer CropScience LibertyLink®	Glufosinate tolerance. Event: T25
RA	Dow AgroSciences Refuge Advanced®	
RIB	Refuge in Bag	
RR2	Monsanto Roundup Ready® Corn 2	Glyphosate tolerance. Event: NK603
RW	Agrisure RW	mCry3A. Protection from Corn Rootworm. Event MIR604
SSX	Monsanto Genuity™ SmartStax™ DowAgrosciences SmartStax™	Cry1A.105, Cry2Ab2, Cry1F, Cry3Bb1, Cry34/35Ab1. Protection from Western, Northern, and Mexican Corn Rootworms, European and Southwestern Corn Borers, Sugarcane Borer, Southern Cornstalk Borer, Western Bean and Black Cutworms, Corn Earworm, Fall Armyworm. Glufosinate tolerance and Glyphosate tolerance. Event: Mon88017+Mon89034+TC1507+DAS59122-7
VIP3110	Agrisure Viptera™ 3110	Vip3A, Cry1Ab. Protection from European and Southwestern Corn Borers, Southern Cornstalk Borer, Fall and Beet Armyworm, Black and Western Bean Cutworm, Sugarcane Borer, Common Stalk borer and Dingy Cutworm. Glyphosate tolerance. Event: MIR162+Bt11+GA21
VIP3111	Agrisure Viptera™ 3111A	Vip3A, Cry1Ab. Protection from European and Southwestern Corn Borers, Corn earworm, Southern cornstalk borer, Fall and Beet armyworm, Black and Western Bean Cutworm, Sugarcane borer, Western, Northern and Mexican corn rootworm, Common stalk borer and Dingy cutworm. Glyphosate tolerance. Contains Agrisure Artesian technology with multiple genes for season long drought protection. Event: MIR162+Bt11+GA21+MIR604
VT2P	Monsanto Genuity™ VT Double PRO™	Cry1A.105, Cry2Ab2. Protection from European and Southwestern Corn Borers, Sugarcane Borer, Southern Cornstalk Borer, Corn Earworm, and Fall Armyworm Glyphosate tolerance. Event: Mon89034+NK603
VT3P	Monsanto Genuity™ VT Triple PRO™	Cry1A.105, Cry2Ab2, Cry3Bb1. Protection from European and Southwestern Corn Borers, Sugarcane Borer, Southern Cornstalk Borer, Corn Earworm, Fall Armyworm, Western Corn Rootworm, Northern Corn Rootworm, and Mexican Corn Rootworm. Glyphosate tolerance. Event: Mon88017+Mon89034
YGCB	Monsanto YieldGard® Corn Borer	Cry1Ab. Protection from European and Southwestern Corn Borers, Sugarcane Borer and Southern Cornstalk Borer. Event: Mon810