CORN HYBRID TESTS IN TENNESSEE

2024

Real. Life. Solutions.™

UTEXTENSION
INSTITUTE OF AGRICULTURE
THE UNIVERSITY OF TENNESSEE

Corn Grain Hybrid Tests in Tennessee

2024

Virginia Sykes, Associate Professor, Variety Testing Coordinator and Agroecology Specialist
Ryan Blair, Extension Area Specialist, Grain Crops & Cotton
Heather Kelly, Professor, Extension/Research Plant Pathologist and IPM Coordinator
Andrew Lawson, Research Associate, Variety Testing and Agroecology
Isaac Mirahki, Postdoctoral Research Associate, Variety Testing and Agroecology
Lexie Worley, Graduate Research Assistant, Variety Testing and Agroecology
Bailey Lugo, Graduate Research Assistant, Variety Testing and Agroecology
Alyssa Thelin, Graduate Research Assistant, Variety Testing and Agroecology
Yannick Roberts, Graduate Research Assistant, Variety Testing and Agroecology
Dennis West, Professor, Corn and Wheat Breeding
David Kincer, Research Associate, Corn and Wheat Breeding
Jake McNeal, Assistant Professor, Corn and Soybean Specialist

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

•Telephone: (865) 974-7285 Email: vsykes@utk.edu

This report is available as a pdf and as sortable, mobile-friendly tables at:
search.utcrops.com/corn-grains

Acknowledgments

This research was funded by UT Extension, the Tennessee Corn Promotion Board, and participating companies. We gratefully acknowledge the assistance of the following individuals in conducting these experiments:

Northeast Tennessee AgResearch and Education Center (Greeneville, TN)
Justin Lee McKinney, Research Center Director
Trey Clark, Research Associate

East Tennessee AgResearch and Education Center (Knoxville, TN)
Ethan Parker, Director
Robert Simpson, Former Director (retired)
B.J. DeLozier, Farm Manager
Cory Yurisic, Research Associate

Middle Tennessee AgResearch and Education Center (Spring Hill, TN)
Kevin Thompson, Director
Joe David Plunk, Research Associate

Highland Rim AgResearch and Education Center (Springfield, TN)
Robert Ellis, Director
Brad S. Fisher, Research Associate

AgResearch and Education Center at Milan (Milan, TN)
Blake Brown, Center Director
Joey Duncan, Research Associate
Bryan Garren, Research Associate
Jason Williams, Research Associate

West Tennessee AgResearch and Education Center (Jackson, TN)
Scott Stewart, Center Director
Randi Dunagan, Research Associate

Agricenter International (Memphis, TN)
Bruce Kirksey, Director

Additionally, we are grateful for the continued support and dedication of the many county extension agents and cooperators who contribute to these results (for a full list of extension agents and cooperators, see table 2).

Table of Contents

Experimental Procedures---------- 5
Growing Season---------- 5
Interpretation of Data---------- 7
Results---------- 7
Location Information
Table 1. AgResearch and Education Center (REC) location information---------- 8
Table 2. County Standard Test (CST) location information---------- 9
Summary
Table 3. Summary of "A group" hybrids within REC and CST tests---------- 10
Early-season Hybrids
Table 4. Early-season yield, agronomic, and quality data across REC locations ---------- 11
Table 5. Early-season yield data by REC location ---------- 12
Table 6. Early-season roundup ready/stacked across and by CST locations---------- 13
Table 7. Early-season roundup ready/stacked disease data ---------- 14
Table 8. Early-season hybrids common to both REC and CST Tests---------- 15
Medium-season Hybrids
Table 9. Medium-season yield, agronomic, and quality data across REC locations ---------- 16
Table 10. Medium-season yield data by REC location ---------- 17
Table 11. Medium-season roundup ready/stacked across and by CST locations---------- 18
Table 12. Medium-season roundup ready/stacked disease data---------- 19
Table 13. Medium-season hybrids common to both REC and CST tests---------- 20
Full-season Hybrids
Table 14. Full-season yield, agronomic, and quality data across REC locations ---------- 21
Table 15. Full-season yield data by REC location ---------- 22
Table 16. Full-season roundup ready/stacked across and by CST locations---------- 23
Table 17. Full-season roundup ready/stacked disease data---------- 24
Table 18. Full-season hybrids common to both REC and CST tests---------- 25
Additional Trial Information
Table 19. Corn hybrid characteristics---------- 26
Table 20. Seed company contact information---------- 27
Table 21. Abbreviations for biotech traits---------- 28
Appendix A (available online only)
Table A-1. Mean yields and agronomic data from Knoxville, TN – Early Corn---------- 29
Table A-2. Mean yields and agronomic data from Knoxville, TN – Med. Corn---------- 30
Table A-3. Mean yields and agronomic data from Knoxville, TN – Full Corn---------- 31
Table A-4. Mean yields and agronomic data from Greeneville, TN – Early Corn---------- 32
Table A-5. Mean yields and agronomic data from Greeneville, TN – Med. Corn---------- 33
Table A-6. Mean yields and agronomic data from Greeneville, TN – Full Corn---------- 34
Table A-7. Mean yields and agronomic data from Springfield, TN Irrigated – Early Corn------- 35
Table A-8. Mean yields and agronomic data from Springfield, TN Irrigated – Med. Corn------- 36
Table A-9. Mean yields and agronomic data from Springfield, TN Irrigated – Full Corn-------- 37
Table A-10. Mean yields and agronomic data from Springfield, TN Non-Irrigated Early Corn 38
Table A-11. Mean yields and agronomic data from Springfield, TN Non-Irrigated - Med. Corn 39
Table A-12. Mean yields and agronomic data from Springfield, TN Non-Irrigated – Full Corn- 40
Table A-13. Mean yields and agronomic data from Spring Hill, TN – Early Corn---------- 41
Table A-14. Mean yields and agronomic data from Spring Hill, TN – Med. Corn---------- 42
Table A-15. Mean yields and agronomic data from Spring Hill, TN – Full Corn---------- 43

Table A-16. Mean yields and agronomic data from Milan, TN Irrigated – Early Corn---------- 44
Table A-17. Mean yields and agronomic data from Milan, TN Irrigated – Med. Corn---------- 45
Table A-18. Mean yields and agronomic data from Milan, TN Irrigated – Full Corn---------- 46
Table A-19. Mean yields and agronomic data from Milan, TN Non-Irrigated – Early Corn----- 47
Table A-20. Mean yields and agronomic data from Milan, TN Non-Irrigated – Med. Corn-- 48
Table A-21. Mean yields and agronomic data from Milan, TN Non-Irrigated – Full Corn------- 49
Table A-22. Mean yields and agronomic data from Jackson, TN - Early Corn---------- 50
Table A-23. Mean yields and agronomic data from Jackson, TN – Med. Corn---------- 51
Table A-24. Mean yields and agronomic data from Jackson, TN – Full Corn---------- 52
Table A-25. Mean yields and agronomic data from Memphis, TN – Early Corn---------- 53
Table A-26. Mean yields and agronomic data from Memphis, TN – Med. Corn---------- 54
Table A-27. Mean yields and agronomic data from Memphis, TN – Full Corn---------- 55

CORN GRAIN HYBRID TESTS IN TENNESSEE

2024

Experimental Procedures:

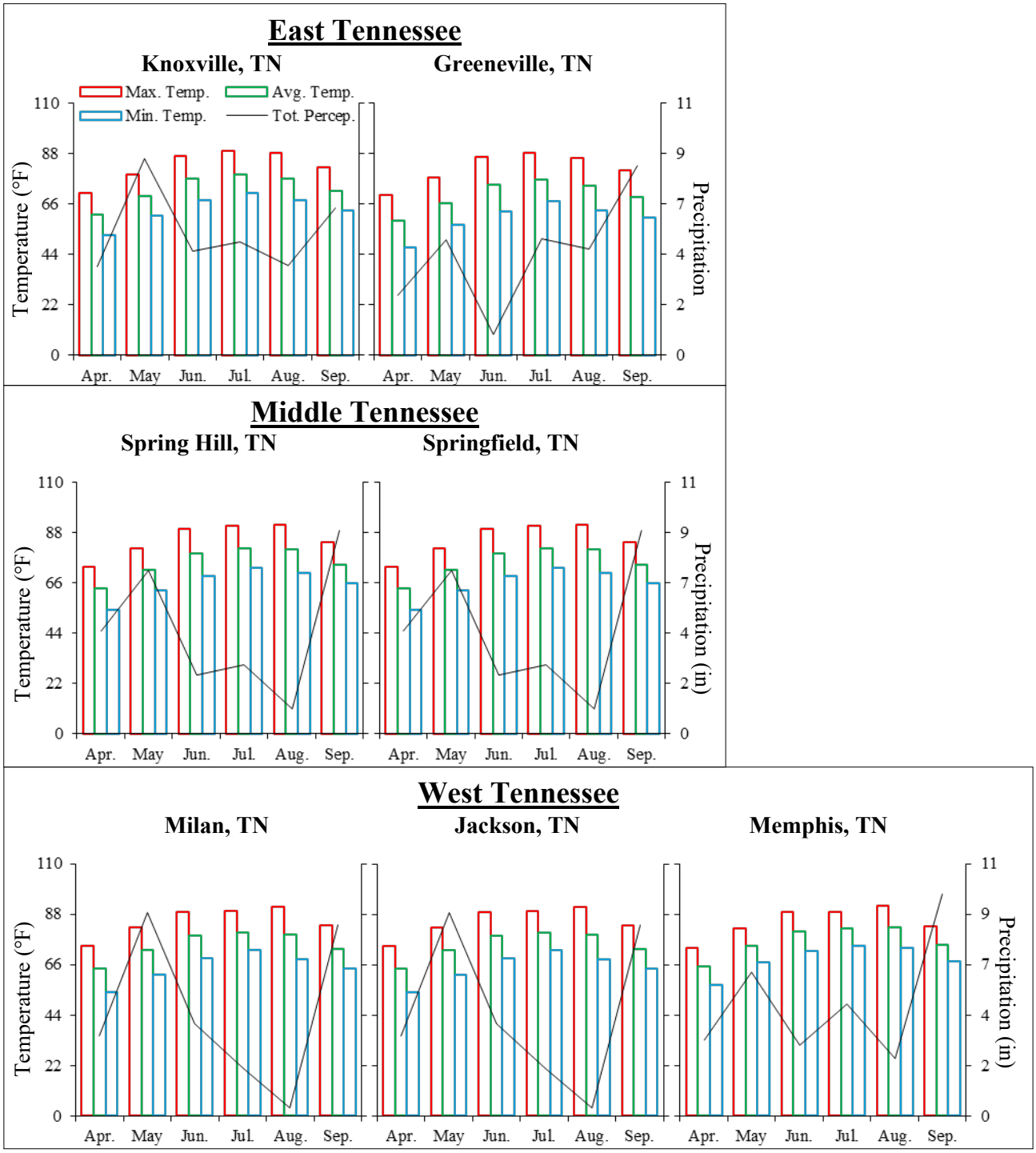
AgResearch and Education Center Tests: All corn hybrid trials were conducted in each of the physiographic regions of the state. Tests were conducted at the East TN (Knoxville), Northeast Tennessee (Greeneville), Highland Rim (Springfield), Milan (Milan) and West TN (Jackson) AgResearch and Education 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 REC** 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 at each location using a precision seeding planter. Trials were planted with a goal of 36,000 plants per acre for irrigated plots and 34,000 plants per acre for non-irrigated plots, although final populations varied by 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. A randomized complete block design was used at each location to reduce the within field variation.

County Standard Tests: The County Standard Corn Tests were conducted in 17 counties in Tennessee. The number of counties varied by 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). 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: Corn grain official variety trials were planted in mid to late-April at the University of Tennessee AgResearch and Education Center (REC) locations. Statewide planting was on par with the 5-yr average, despite wet conditions, with 83% of corn planted by late April. June and July were marked by very hot and dry conditions. Locations in the central and Southern part of the state suffered more from a lack of timely rainfall, with conditions ranging from abnormally dry to extreme drought. By late August, only 49% of the crop was rated good to excellent. By mid-October, 88% of corn had been harvested statewide, with the good to excellent rating dropping to 46%. According to the National Agricultural Statistics Service, yield is projected to be 153 bu/ac in Tennessee. This is a decrease of 20 bu/ac from 2023 state average (183 bu/ac) and 30.8 bu/ac lower than the 2024 National average (183.8 bu/ac). In 2024, an estimated 660,000 acres were harvested for corn grain in Tennessee. This is a decrease of 230,000 acres compared to 2024, which had 890,000 acres harvested. Graphs illustrating the temperature and precipitation across the growing season for each REC location are presented below (Figure 1.)

Figure 1. Minimum, maximum, and average temperature and total precipitation by AgResearch and Education Center location across the 2024 corn growing season (April through September).



Interpretation of Data:

The tables on the following pages have been prepared with the entries listed in order of yield performance, the highest-yielding entry being listed first. Mean separation was performed using the **Fisher's Protected LSD (Least Significant Difference) test**. The mean trait value of any two entries being compared must differ by at least the LSD amount shown to be considered significantly different at the 5% level of probability. Tests with an LSD value of N.S. indicate there were no significant differences in entry performance within that test. To simplify interpretation, **Mean Separation Letters** have been listed next to traits evaluated across locations. Hybrids that have any letter in common are not significantly different at the 5% level of probability based on the LSD test. Hybrids with performance statistically equivalent to the top performing hybrid will have an "A" included in the list of mean separation letters next to that entry.

The **coefficient of variation (C.V.)** values are also shown at the bottom of each table. This value is a measure of the error variability found within each experiment. It is calculated as the ratio of the square root of error variance to the mean yield. 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. Forty corn hybrids were evaluated in the 2024 **AgResearch and Education Center (REC)** tests in Tennessee. There were 10 hybrids in the early- (Tables 4-5), 21 hybrids in the medium- (Tables 9-10), and 9 hybrids in the full-season (Tables 14-15) tests. These hybrids represent 9 different brands (Table 20). The **County Standard (CS)** tests consisted of an early-season glyphosate resistant and Bt stacked trait test (11 hybrids at 9 locations, Table 6), a medium-season glyphosate resistant and Bt stacked trait test (8 hybrids at 15 locations, Table 11), and a full-season glyphosate resistant and Bt stacked trait test (8 hybrids at 14 locations, Table 16) for a total of 27 hybrids. Common to both the REC and CS tests were 5 early-season, 7 medium-season, and 3 full-season hybrids (Tables 8, 13, 18). Similarly to the REC tests, all hybrids in the CS tests were placed in the maturity test for which they fit, regardless of other traits associated with each entry.

All 40 hybrids evaluated in REC tests were transgenic, containing genetic modification for herbicide tolerance (RR) and insect tolerance (TRE, VT2P) (see table 20 for full descriptions of abbreviated traits). All entries had glyphosate herbicide tolerance while insect tolerance was mostly distributed between TRE and VT2P.

Irrigated vs. Non-irrigated Yields. Duplicate tests were conducted with and without irrigation at Milan and Springfield. At the Milan location, all irrigated tests out-yielded non-irrigated tests, with the greatest difference observed in the early test. Irrigated yields at Milan exceeded non-irrigated yields by 18, 8, and 9 bu/ac in the Early, Medium, and Full test, respectively. The Springfield early irrigated test was dropped due to high trial variability, and, therefore, this comparison is not included. Among the remaining trials at Springfield, irrigated yields were lower than non-irrigated yields by 1 bu/ac in the Medium test and higher than non-irrigated yields by 6 bu/ac in the Full test.

Table 1. Location information from University of Tennessee Institute of Agriculture (UTIA) AgResearch and Education Centers where corn hybrid tests were conducted in Tennessee in 2024.

Early Season Corn Hybrids

Location	AgResearch and Education Center	Irrigation	Planting Date	Harvest Date	Plant Population	Soil Type
Knoxville	East Tennessee	Irrigated	April 18, 2024	September 9, 2024	34,069	Shady Loam
Springfield	Highland Rim	Irrigated	April 22, 2024	September 4, 2024	31,781	Sango Silt Loam
Springfield	Highland Rim	Non-Irrigated	April 23, 2024	September 4, 2024	32,234	Sango Silt Loam
Spring Hill	Middle Tennessee	Non-Irrigated	April 16, 2024	September 19, 2024	31,585	Maury Silt Loam
Greeneville	Northeast Tennessee	Non-Irrigated	April 17, 2024	September 30, 2024	31,220	Huntington Silt Loam
Milan	Milan	Irrigated	April 25, 2024	September 20, 2024	32,481	Loring
Milan	Milan	Non-Irrigated	April 25, 2024	September 10, 2024	31,055	Grenada
Jackson	West Tennessee	Irrigated	April 23, 2024	September 7, 2024	38,546	Dexter and Collins
Memphis	Agricenter International	Irrigated	April 24, 2024	September 10, 2024	not evaluated	Falaya Silt Loam

Medium Season Corn Hybrids

Location	AgResearch and Education Center	Irrigation	Planting Date	Harvest Date	Plant Population	Soil Type
Knoxville	East Tennessee	Irrigated	April 18, 2024	September 12, 2024	33,994	Shady Loam
Springfield	Highland Rim	Irrigated	April 22, 2024	September 5, 2024	32,958	Sango Silt Loam
Springfield	Highland Rim	Non-Irrigated	April 23, 2024	September 4, 2024	31,820	Sango Silt Loam
Spring Hill	Middle Tennessee	Non-Irrigated	April 16, 2024	September 19, 2024	31,628	Maury Silt Loam
Greeneville	Northeast Tennessee	Non-Irrigated	April 17, 2024	September 30, 2024	32,711	Huntington Silt Loam
Milan	Milan	Irrigated	April 25, 2024	September 20, 2024	32,493	Loring
Milan	Milan	Non-Irrigated	April 25, 2024	September 11, 2024	31,194	Grenada
Jackson	West Tennessee	Irrigated	April 23, 2024	September 7, 2024	37,153	Dexter and Collins
Memphis	Agricenter International	Irrigated	April 24, 2024	September 10, 2024	not evaluated	Falaya Silt Loam

Full Season Corn Hybrids

Location	AgResearch and Education Center	Irrigation	Planting Date	Harvest Date	Plant Population	Soil Type
Knoxville	East Tennessee	Irrigated	April 18, 2024	September 12, 2024	33,295	Shady Loam
Springfield	Highland Rim	Irrigated	April 22, 2024	September 4, 2024	32,342	Sango Silt Loam
Springfield	Highland Rim	Non-Irrigated	April 23, 2024	September 4, 2024	30,961	Sango Silt Loam
Spring Hill	Middle Tennessee	Non-Irrigated	April 16, 2024	September 19, 2024	31,017	Maury Silt Loam
Greeneville	Northeast Tennessee	Non-Irrigated	April 17, 2024	September 30, 2024	32,806	Huntington Silt Loam
Milan	Milan	Irrigated	April 25, 2024	September 20, 2024	32,511	Loring
Milan	Milan	Non-Irrigated	April 25, 2024	September 11, 2024	30,976	Grenada
Jackson	West Tennessee	Irrigated	April 23, 2024	September 7, 2024	37,881	Dexter and Collins
Memphis	Agricenter International	Irrigated	April 24, 2024	September 10, 2024	not evaluated	Falaya Silt Loam

Table 2. Location information from county locations where corn hybrid county standard tests were conducted in Tennessee in 2024.

Early Corn Hybrid Test (RR & Stacked)

County	Cooperator	Agent	Planting Date
Crockett	Steve Bailey	Daniel Wiggins	March 28, 2024
Gibson	Denton Parkins	Jake Mallard	April 17, 2024
Hardeman	Conrad Powers	Clint Plunk	April 16, 2024
Haywood	Robert Allen King	Lindsey Stephenson	April 23, 2024
HenryB	Brannon Farms	Ranson Goodman	April 15, 2024
HenryT	Tosh Farms	Ranson Goodman	April 22, 2024
Madison	Brad & Bill Taylor	Hunter Goodman	April 29, 2024
Weakley	Andy Oliver	Bronson Bass	April 17, 2024
WTREC	Andrew Wood	Hunter Goodman	April 16, 2024

Medium Season Corn Hybrid Test (RR & Stacked)

County	Cooperator	Agent	Planting Date
Bradley	Mike Voelker	David Bilderback	May 3, 2024
Crockett	Justin Hollingshead	Daniel Wiggins	April 25, 2024
Gibson	Denton Parkins	Jake Mallard	April 17, 2024
Giles	Pat Sulcer	Kevin Rose	May 13, 2024
Hardeman	Dave Rhea	Clint Plunk	April 22, 2024
Haywood	Robert Allen King	Lindsey Stephenson	April 23, 2024
HenryB	Brannon Farms	Ranson Goodman	April 15, 2024
HenryT	Tosh Farms	Ranson Goodman	April 22, 2024
Jefferson	J. Moser	Ryan Brown	April 30, 2024
Madison	Matt Griggs	Hunter Goodman	April 30, 2024
Montgomery	David Adams	Logan Lewis & Cody Parker	April 29, 2024
Obion	Thompson Farms	Garrett McDaniel	May 30, 2024
Warren	Bilings Farms	Heath Nokes	May 31, 2024
Weakley	Jay Yeargin	Bronson Bass	April 28, 2024
WTREC	Andrew Wood	Hunter Goodman	April 16, 2024

Full Season Corn Hybrid Test (RR & Stacked)

County	Cooperator	Agent	Planting Date
Bradley	Mike Voelker	David Bilderback	May 3, 2024
Crockett	Marbury	Daniel Wiggins	April 15, 2024
Fayette	Ames REC	Jeff Via	April 16, 2024
Gibson	Denton Parkins	Jake Mallard	April 17, 2024
Hardeman	Conrad Powers	Clint Plunk	April 16, 2024
Haywood	Link Carlton	Lindsey Stephenson	April 22, 2024
HenryB	Brannon Farms	Ranson Goodman	April 15, 2024
HenryT	Tosh Farms	Ranson Goodman	April 22, 2024
Lewis	Randall Hinson	Drew Vanetta	May 2, 2024
Madison	Brad & Bill Taylor	Hunter Goodman	April 29, 2024
McNairy	Brad Hunt	John Williams	April 26, 2024
Montgomery	David Adams	Logan Lewis & Cody Parker	April 29, 2024
Weakley	Moore	Broson Bass	April 18, 2024
WTREC	Andrew Wood	Hunter Goodman	April 16, 2024

Table 3. Average yields of hybrids that were in the "A group" (not statistically different from the highest performing variety) in AgResearch and Education Center (REC) tests, County Standard Tests (CST), or both trial programs in 2024. Varieties are sorted by total number of consecutive years in "A group" then average yield across both trial programs.

		REC			CST		
Hybrid	Test	REC Yield[§]	Consecutive Years in A Group[‡]	Locs. with above avg. yield	CST Yield[§]	Consecutive Years in A Group[‡]	Locs. with above avg. yield
Dekalb DKC 111-35 VT2P RIB	Early	234	1	86%	244	1	100%
Dyna-Gro 53TC23	Early				234	2	67%
Pioneer P13777PWUE	Early	225	1	71%	236	1	67%
Pioneer P13841PWUE	Early	224	1	57%	233	1	67%
AgriGold 643-52 VT2PRO	Early				230	1	67%
Revere 113-T4C	Early	224	1	86%			
Dyna-Gro D51VC95 RIB	Early	224	1	57%			
Dekalb DKC 66-06 TRE	Med	226	2	71%	202	2	47%
AgriGold 645-16 VT2PRO	Med				203	4	60%
Dekalb DKC 65-95 VT2P	Med				200	4	47%
Revere 1627 TC	Med	221	3	57%			
Dyna-Gro D55VC80 RIB	Med				205	3	67%
Progeny PGY2314 TRE	Med	223	2	86%			
Dyna-Gro D56TC44 RIB	Med	217	1	57%	203	1	73%
1st Choice Seeds FC 8455 VT2P RIB	Med	228	1	86%			
Dekalb DKC 64-22 VT2P	Med	226	1	86%			
Revere 114-P35	Med	226	1	100%			
Innvictis A1312 VT2P RIB	Med	222	1	86%			
Great Heart Seed HT-7500 TRE	Med	218	1	43%			
Innvictis A1689 T	Med	218	1	57%			
Innvictis A1542 T	Med	218	1	57%			
Innvictis A1551 VT2P	Med	217	1	57%			
Progeny PGY 2215 TRE	Med				200	1	33%
Progeny PGY 9114 VT2P	Med				197	1	40%
Dyna-Gro D54VC34 RIB	Med				196	1	27%
Dekalb DKC 68-35 VT2P	Full	224	2	75%	209	2	71%
Revere 1839 TC	Full	224	2	88%			
Integra 6915 TRE	Full	222	1	100%			
Innvictis A1993 T	Full	221	1	88%			
AgriGold 647-79 VT2P	Full				213	1	93%
Dyna-Gro 60TC45	Full				209	1	79%

§ All yields are adjusted to 15.5% moisture.

Table 4. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials at nine AgResearch and Education Center locations in Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)	Protein‖ (%)	Oil‖ (%)	Starch‖ (%)
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	234 A	15.5 B	58 AB	108 B-D	45 DE	0.4	10.2 A	4.2 C	84.1 AB
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	225 AB	15.6 AB	58 A-C	111 A-C	45 CD	0.3	9.8 A	4.4 A-C	82.9 CD
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	224 A-C	14.8 CD	57 D	109 A-D	47 A-D	0.3	9.9 A	4.2 C	83.5 BC
Revere 113-T4C	RR	CB, VP	224 A-C	15.4 B	57 CD	111 AB	49 A	0.4	10.1 A	4.5 A	83.0 CD
Dyna-Gro D51VC95 RIB	RR	VT2P	224 A-C	14.2 D	57 D	106 D	41 E	0.3	9.4 A	4.2 BC	84.2 AB
Innvictis A1292 VT2P	RR	VT2P	221 BC	15.2 BC	57 B-D	107 B-D	44 DE	0.1	9.9 A	4.0 D	84.5 A
Dyna-Gro D53VC54 RIB	RR	VT2P	219 BC	15.7 AB	59 A	111 AB	48 A-C	0.1	10.3 A	4.2 C	83.6 A-C
Progeny PGY 2010 TRE	RR	TRE	218 BC	14.5 D	57 B-D	107 CD	45 B-D	0.3	10.1 A	4.4 AB	82.8 CD
Great Heart Seed HT-7360 VT2	RR	VT2P	215 BC	16.1 A	58 B-D	112 A	45 CD	0.6	10.4 A	3.9 D	84.1 AB
Innvictis A1072 VT2P RIB	RR	VT2P	213 C	14.2 D	57 D	112 A	48 AB	0.6	9.9 A	4.5 A	82.2 D
Trial Average			**222**	**15.1**	**57**	**109**	**46**	**0.4**	**10.0**	**4.3**	**83.5**
Trial Standard Error			**12**	**0.7**	**2**	**6**	**3**	**0.2**	**0.2**	**0.1**	**0.3**
Trial L.S.D.$_{.05}$			**12**	**0.6**	**1**	**4**	**3**	**-**	**N.S.**	**0.2**	**1.0**
Trial C.V.			**9**	**7**	**3**	**5**	**9**	**-**	**3.7**	**2.5**	**0.7**
Number of locs.			**7**	**7**	**5**	**4**	**4**	**4**	**1**	**1**	**1**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table 5. Mean yields across and by location of 10 early-season (<114 DAP) corn hybrids evaluated in replicated small plot trials at nine AgResearch and Education Center locations in Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg.‡	Above Loc Avg.	Avg. Yield§ (bu/acre)	Knoxville Irr. (bu/acre)	Greeneville Non-Irr. (bu/acre)	Springfield Non-Irr. (bu/acre)	Milan Irr. (bu/acre)	Milan Non-Irr. (bu/acre)	Jackson Irr. (bu/acre)	Memphis Irr. (bu/acre)
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	86%	234 A	258 A	231 A	235 A	252 AB	241 A	237 A	185 A
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	71%	225 AB	265 A	216 AB	222 A	259 A	231 AB	236 A	145 A
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	57%	224 A-C	265 A	245 A	221 A	232 CD	228 AB	230 A	147 A
Revere 113-T4C	RR	CB, VP	86%	224 A-C	272 A	190 BC	225 A	246 A-C	227 AB	228 A	179 A
Dyna-Gro D51VC95 RIB	RR	VT2P	57%	224 A-C	271 A	224 AB	213 A	236 B-D	213 BC	232 A	178 A
Innvictis A1292 VT2P	RR	VT2P	71%	221 BC	258 A	161 C	226 A	252 AB	239 A	228 A	181 A
Dyna-Gro D53VC54 RIB	RR	VT2P	57%	219 BC	262 A	211 AB	225 A	239 BC	215 BC	232 A	152 A
Progeny PGY 2010 TRE	RR	TRE	29%	218 BC	259 A	222 AB	229 A	238 BC	217 BC	216 A	150 A
Great Heart Seed HT-7360 VT2	RR	VT2P	14%	215 BC	251 A	192 BC	217 A	220 D	207 C	214 A	204 A
Innvictis A1072 VT2P RIB	RR	VT2P	0%	213 C	256 A	194 BC	217 A	234 CD	212 BC	220 A	155 A
Average				222	262	209	223	241	223	227	168
Standard Error				12	7	14	9	7	8	9	15
L.S.D.$_{.05}$				12	N.S.	37	N.S.	17	20	N.S.	N.S.
C.V.				9	4	10	7	4	5	7	16

† Hybrids that have any MS letter in common are not significantly different in yield at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.
Springfield irrigated and Spring Hill locations were dropped from across locations analysis due to high trial variation.

Table 6. Yields of 11 early-season (<114 DAP) Roundup / stacked corn hybrids in 9 County Standard Tests in Tennessee during 2024.‡

MS† Avg. Yield	Hybrid*	Avg. Yield§	Avg. Moisture	Avg. Test Weight	Crock	Gibs	Hard	Hayw	HenB	HenT	Madis	Weakl	WTREC
		bu/acre	%	lbs/bu	3/28	4/17	4/16	4/23	4/15	4/22	4/29	4/17	4/16
A	Dekalb 111-35 VT2RIB	**244**	13.8	59.1	232	198	**243**	254	**277**	248	**249**	229	265
AB	Pioneer P1377PWUE	236	13.9	60.1	**261**	198	241	243	253	243	185	226	**276**
AB	Dyna-Gro 53TC23 *	234	14.2	58.2	219	**231**	237	248	240	240	207	**230**	251
AB	Pioneer P13841PWUE	233	13.8	58.5	238	196	239	239	267	239	202	201	271
AB	AgriGold 643-52 VT2PRO	230	14.3	59.2	229	208	240	263	265	207	196	204	261
B	Croplan 5208	230	14.3	60.2	225	193	235	**266**	242	243	199	214	249
B	Dyna-Gro 50VC09	229	13.6	59.0	234	198	231	255	273	236	196	201	234
BC	Pioneer P1170 YHR	228	13.5	60.5	230	187	236	243	256	230	218	202	250
BCD	Dyna-Gro 53VC54	223	14.3	60.2	219	184	233	264	253	**251**	183	182	239
CD	SS 11-40	214	14.3	59.4	214	183	235	227	242	222	165	215	225
D	Progeny 2010 TRE	213	13.9	58.6	201	181	229	238	240	234	216	184	191
	Average	229	14	59	227	196	236	249	255	236	202	208	247

‡ Data Provided by Ryan Blair, Ext. Area Specialist, Grain and Cotton Variety Testing, and Extension agents in counties shown above.
† Hybrids that have any MS letter in common are not significantly different in yield at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
§ All yields are adjusted to 15.5% moisture.
Highlighted cells indicate hybrids that were above average and bold/underline values indicate the top yield, within a location.
County locations include: Crockett, Gibson, Hardeman, Haywood, Henry (2 locs), Madison, Weakley, and WTREC (Jackson).

Table 7. Yields and disease ratings of 10 Early-season (<114 DAP) Roundup / stacked corn hybrids in 9 County Standard Tests and in small plot and large strip trials at 2 locations in Tennessee during 2024.

Summary from County Tests			Summary from Small Plot Research						Summary from Large Strip Research				Other Diseases Observed
			On-farm Location (JAX) Non-irrigated			Research & Education Center at Milan (RECM) Irrigated			West TN Research & Education Center (WTREC) Irrigated		On-farm Location (Gibson Co) Non-irrigated		
		Avg. Yield	Yield (bu/ac)		Grey	Yield (bu/ac)		Grey	Yield (bu/ac)		Yield (bu/ac)		
MS	Hybrid	(bu/ac)	*Treated	Non-treated	leaf spot	*Treated	Non-treated	leaf spot	*Treated	Non-treated	*Treated	Non-treated	
A	Dekalb 111-35 VT2RIB	244	102	97	LOW	219	211	MOD	265	264	202	194	
AB	Pioneer P1377PWUE	236	83	84	LOW	201	194	LOW	267	285	194	202	S.Rust
AB	Dyna-Gro 53TC23 *	234	109	106	LOW	198	212	MOD	251	250	229	234	S.Rust
AB	Pioneer P13841PWUE	233	92	92	LOW	-	-	-	262	281	195	197	
AB	AgriGold 643-52 VT2PRO	230	106	111	LOW	209	219	LOW	269	252	215	201	Curvularia, S.Rust
B	Croplan 5208	230	97	91	MOD	197	192	MOD	245	253	192	194	
B	Dyna-Gro 50VC09	229	86	76	LOW	214	196	MOD	221	247	204	192	Curvularia
BC	Pioneer P1170 YHR	228	94	85	-	185	183	MOD	251	249	188	185	S.Rust
BCD	Dyna-Gro 53VC54	223	100	117	LOW	-	-	-	225	253	186	182	S.Rust
D	Progeny 2010 TRE	213	81	80	LOW	180	183	HIGH	192	191	182	179	Curvularia, S.Rust
	Average	**230**	**95**	**94**		**200**	**199**		**245**	**253**	**199**	**196**	

Yield adjusted to 15.5% moisture
MS= Varieties that have any MS letter in common are not statistically different in yield (based on 95% confidence)
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group in county trials

*Treated plots sprayed with Miravis Neo @13.7 fl oz/a + 0.25% Induce @ VT-R1 growth stage
On-farm locations: Jackson (JAX) hybrids planted Apr 25, sprayed July 3, & harvested Sept. 10; Gibson Co hybrids planted Apr 17, sprayed June 24, & harvested Sept. 10
RECM hybrids planted Apr 22, sprayed June 28, and harvested Sept. 23; WTREC hybrids planted Apr 16, sprayed June 25 & harvested Sept. 5

NONE, LOW, MOD, and HIGH is a relative ranking of disease severity at each location.
Disease ratings at On-farm JAX Location: Grey leaf spot ranged from 0.5 - 8.3%, averaged 2.7%
Disease ratings at RECM: Grey leaf spot ranged from 2.3 - 15.5, averaged 6.9%

Disease ratings & yield data compiled by Dr. Heather Kelly and Wesley Crowder from replicated plots at 2 locations
County and large strip data provided by Ryan Blair, Ext. Area Specialist, and County Extension agents

Table 8. Overall average yields, moistures, and test weights of 5 early-season corn hybrids evaluated in both the County Standard Tests and AgResearch and Education Center Tests in Tennessee during 2024.

			Avg. of CST and REC Tests				REC Tests				CST Tests			
Hybrid[†]	Herbicide Pkg[‡]	Insect Pkg.[‡]	Avg. Yield[§] (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group" in both tests	Avg. Yield[§] (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group"	Avg. Yield[§] (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group"
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	239	14.6	58.7	*	234	15.5	58.3	*	244	13.8	59.1	*
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	230	14.7	59.1	*	225	15.6	58.1	*	236	13.9	60.1	*
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	229	14.3	57.6	*	224	14.8	56.7	*	233	13.8	58.5	*
Dyna-Gro D53VC54 RIB	RR	VT2P	221	15.0	59.5		219	15.7	58.9		223	14.3	60.2	
Progeny PGY 2010 TRE	RR	TRE	216	14.2	57.9		218	14.5	57.3		213	13.9	58.6	
			227	**14.6**	**58.6**		**224**	**15.2**	**57.9**		**230**	**13.9**	**59.3**	

‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.

Table 9. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials at nine AgResearch and Education Center locations in Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)	Protein‖ (%)	Oil‖ (%)	Starch‖ (%)
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	228 A	15.2 D-G	58 F-I	109 AB	43 B-D	0.4	10.1 B-F	4.0 D	84.2 BC
Dekalb DKC 64-22 VT2P	RR	VT2P	226 A	15.4 D-F	60 AB	104 C-E	43 B-D	0.2	10.1 B-G	4.3 A-C	83.8 B-F
Revere 114-P35	RR	CB	226 A	15.3 D-G	57 HI	109 AB	42 B-D	1.8	9.7 F-H	3.9 D	84.5 AB
Dekalb DKC 66-06 TRE*	RR	TRE	226 A	15.7 B-D	59 C-E	109 AB	44 B	0.3	9.4 GH	4.2 C	83.7 B-F
Progeny PGY2314 TRE*	RR	TRE	223 AB	15.0 E-H	59 C-F	104 C-E	41 B-D	0.4	10.1 B-F	4.4 AB	82.8 FG
Innvictis A1312 VT2P RIB	RR	VT2P	222 A-C	14.8 G-I	57 I	105 CD	43 B-D	0.8	10.1 B-F	4.3 A-C	83.3 C-F
Revere 1627 TC**	RR	TRE	221 A-D	15.5 C-E	59 C-E	107 BC	44 B	0.5	10.5 A-D	4.3 A-C	83.6 B-F
Great Heart Seed HT-7500 TRE	RR	TRE	218 A-E	16.3 A	58 G-I	112 A	49 A	0.4	10.5 A-E	4.3 A-C	83.6 B-F
Innvictis A1689 T	RR	TRE	218 A-E	15.2 D-H	61 A	106 B-D	44 BC	0.8	11.0 A	4.3 BC	81.9 G
Innvictis A1542 T	RR	TRE	218 A-E	15.2 D-G	59 C-F	103 DE	42 B-D	0.0	9.8 E-H	4.4 AB	83.9 B-E
Innvictis A1551 VT2P	RR	VT2P	217 A-E	14.3 I	58 D-G	104 C-E	40 CD	0.5	9.7 F-H	4.3 BC	83.1 EF
Dyna-Gro D56TC44 RIB	RR	TRE	217 A-E	15.5 C-E	59 C-G	107 BC	43 B-D	0.1	10.2 B-F	4.5 A	84.0 B-E
Integra 6493 VT2P	RR	VT2P	213 B-F	14.9 F-H	59 C-E	105 CD	42 B-D	0.7	9.8 D-H	4.3 A-C	84.1 B-E
Dekalb DKC 65-95 VT2P	RR	VT2P	212 B-F	15.3 D-G	59 BC	104 C-E	44 B	0.6	10.1 C-G	4.3 A-C	84.2 B-D
Dyna-Gro D54VC34 RIB	RR	VT2P	212 B-F	14.9 GH	59 C-E	106 B-D	42 B-D	0.6	9.3 H	4.4 A	83.2 D-F
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	212 B-F	16.2 A	58 C-G	107 BC	42 B-D	0.1	10.7 A-C	4.3 A-C	83.3 C-F
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	211 C-F	14.7 HI	58 E-H	107 BC	42 B-D	0.2	9.1 H	4.2 C	85.3 A
Progeny PGY 9114 VT2P	RR	VT2P	209 D-F	14.9 GH	59 B-D	101 E	40 D	0.2	9.1 H	4.2 C	83.8 B-E
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	207 EF	15.3 D-G	58 C-G	111 A	44 B	0.1	9.7 F-H	4.2 C	85.4 A
Progeny PGY 2215 TRE	RR	TRE	203 F	16.0 AB	59 C-G	109 AB	43 B-D	0.0	10.8 AB	4.2 C	83.7 B-F
Dyna-Gro D55VC80 RIB	RR	VT2P	202 F	16.0 A-C	58 D-H	107 BC	44 B	0.3	10.3 B-F	4.3 A-C	83.9 B-E
Trial Average			**216**	**15.3**	**59**	**106**	**43**	**0.4**	**10.0**	**4.3**	**83.8**
Trial Standard Error			**10**	**0.2**	**2**	**6**	**3**	**0.3**	**0.3**	**0.1**	**0.3**
Trial L.S.D.$_{.05}$			**12**	**0.5**	**1**	**4**	**4**	**-**	**0.7**	**0.2**	**1.0**
Trial C.V.			**9**	**6**	**2**	**4**	**11**	**-**	**4.3**	**2.6**	**0.7**
Number of locs.			**7**	**7**	**5**	**4**	**4**	**4**	**1**	**1**	**1**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.
Greeneville and Spring Hill locations were dropped from across locations analysis due to high trial variation.

Table 10. Mean yields across and by location of 21 medium-season (114-116 DAP) corn hybrids evaluated in replicated small plot trials at nine AgResearch and Education Center locations in Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg.‡	Above Loc Avg.	Avg. Yield§ (bu/acre)	Knoxville Irr. (bu/acre)	Springfield Irr. (bu/acre)	Springfield Non-Irr. (bu/acre)	Milan Irr. (bu/acre)	Milan Non-Irr. (bu/acre)	Jackson Irr. (bu/acre)	Memphis Irr. (bu/acre)
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	86%	228 A	271 A-C	212 A	226 A	251 A	245 A	234 A	158 DE
Dekalb DKC 64-22 VT2P	RR	VT2P	86%	226 A	263 A-D	226 A	213 AB	244 A	236 A-D	210 A	192 A-C
Revere 114-P35	RR	CB	100%	226 A	254 A-E	218 A	223 A	245 A	224 A-G	227 A	189 A-D
Dekalb DKC 66-06 TRE*	RR	TRE	71%	226 A	259 A-D	249 A	212 AB	242 A	217 D-G	232 A	169 B-E
Progeny PGY2314 TRE*	RR	TRE	86%	223 AB	264 A-D	196 A	219 AB	238 A	239 A-C	225 A	178 A-E
Innvictis A1312 VT2P RIB	RR	VT2P	86%	222 A-C	248 A-F	220 A	214 AB	231 A	227 A-F	220 A	194 A-C
Revere 1627 TC**	RR	TRE	57%	221 A-D	273 A	191 A	226 A	220 A	242 AB	229 A	164 C-E
Great Heart Seed HT-7500 TRE	RR	TRE	43%	218 A-E	251 A-F	211 A	194 B-D	229 A	204 G	234 A	205 A
Innvictis A1689 T	RR	TRE	57%	218 A-E	248 A-F	224 A	227 A	225 A	224 A-G	223 A	162 C-E
Innvictis A1542 T	RR	TRE	57%	218 A-E	250 A-F	232 A	213 AB	232 A	220 C-G	177 A	200 AB
Innvictis A1551 VT2P	RR	VT2P	57%	217 A-E	272 A-C	213 A	221 A	228 A	223 A-G	205 A	157 E
Dyna-Gro D56TC44 RIB	RR	TRE	57%	217 A-E	273 AB	211 A	211 A-C	232 A	230 A-F	207 A	153 E
Integra 6493 VT2P	RR	VT2P	29%	213 B-F	252 A-F	206 A	216 AB	229 A	231 A-E	204 A	153 E
Dekalb DKC 65-95 VT2P	RR	VT2P	29%	212 B-F	246 B-F	203 A	217 AB	238 A	208 FG	205 A	169 B-E
Dyna-Gro D54VC34 RIB	RR	VT2P	29%	212 B-F	238 D-F	200 A	210 A-C	237 A	203 G	220 A	172 B-E
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	29%	212 B-F	243 D-F	199 A	201 A-D	226 A	224 A-G	221 A	166 C-E
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	29%	211 C-F	243 D-F	195 A	212 AB	227 A	223 A-G	196 A	178 A-E
Progeny PGY 9114 VT2P	RR	VT2P	43%	209 D-F	225 F	202 A	214 AB	234 A	214 E-G	224 A	151 E
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	0%	207 EF	247 A-F	205 A	206 A-C	213 A	222 B-G	193 A	164 C-E
Progeny PGY 2215 TRE	RR	TRE	29%	203 F	245 C-F	188 A	175 D	209 A	211 E-G	223 A	174 A-E
Dyna-Gro D55VC80 RIB	RR	VT2P	14%	202 F	230 EF	204 A	186 CD	212 A	213 E-G	196 A	173 B-E
Average				**216**	**252**	**210**	**211**	**231**	**223**	**214**	**172**
Standard Error				**10**	**10**	**12**	**11**	**10**	**8**	**15**	**12**
L.S.D.$_{.05}$				**12**	**27**	**N.S.**	**26**	**N.S.**	**22**	**N.S.**	**32**
C.V.				**9**	**7**	**9**	**7**	**7**	**6**	**11**	**11**

† Hybrids that have any MS letter in common are not significantly different in yield at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
Values highlighted in light orange are above average for a given trait, MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table 11. Yields of 8 medium-season (114-116 DAP) Roundup / stacked corn hybrids in 15 County Standard Tests in Tennessee in 2024.‡

MS† Avg. Yield	Hybrid*	Avg Yield§	Avg. Moisture	Avg. Test Weight	Brad	Crock	Gibs	Giles	Hard	Hayw	HenB	HenT	Jeff	Madis	Mont	Obion	Warr	Weak	WTREC
		bu/acre	%	lbs/bu	5/3	4/25	4/17	5/13	4/22	4/23	4/15	4/22	4/30	4/30	4/29	5/30	5/31	4/28	4/16
A	Dyna-Gro 55VC80**	**205**	15.6	58.91	110	**234**	192	118	186	**266**	**285**	**239**	209	216	211	186	159	218	248
A	Dyna-Gro 56TC44	203	15.0	58.99	122	229	196	112	221	239	277	235	174	215	204	170	158	224	266
A	AgriGold 645-16 VT2PRO***	203	15.5	59.27	128	229	186	94	200	255	283	221	196	208	195	196	180	225	243
A	DeKalb 66-06 TRE*	202	15.4	58.73	**149**	219	**198**	117	159	248	264	234	171	218	199	187	167	223	**275**
A	DeKalb 65-95 VT2P***	200	15.5	60.16	109	219	182	**127**	203	243	270	222	**212**	**224**	206	192	**181**	192	218
A	Progeny 2215 TRE	200	15.5	60.16	96	211	183	103	**251**	243	274	235	191	187	187	185	171	**235**	246
A	Progeny 9114 VT2P	197	14.8	59.81	145	212	192	112	163	254	248	224	196	219	184	181	168	216	241
A	Dyna-Gro 54VC34	196	15.1	59.51	110	214	181	109	145	238	263	215	184	217	**223**	**223**	168	204	252
	Average	201	15	59	121	221	189	112	191	248	271	228	192	213	201	190	169	217	249

‡ Data Provided by Ryan Blair, Ext. Area Specialist, Grain and Cotton Variety Testing, and Extension agents in counties shown above.
† Hybrids that have any MS letter in common are not significantly different in yield at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
§ All yields are adjusted to 15.5% moisture.
Highlighted cells indicate hybrids that were above average and bold/underline values indicate the top yield, within a location.
County locations include: Bradley, Crockett, Gibson, Giles, Hardeman, Haywood, Henry (2 locs), Jefferson, Madison, Montgomery, Obion, Warren, Weakley, and WTREC (Jackson).

Table 12. Yields and disease ratings of 8 Mid-season (114-116 DAP) Roundup / stacked corn hybrids in 15 County Standard Tests and in small plot and large strip trials at 2 locations in Tennessee during 2024.

Summary from County Tests			Summary from Small Plot Research						Summary from Large Strip Research				Other Diseases Observed
			On-farm Location (JAX) Non-irrigated			Research & Education Center at Milan (RECM) Irrigated			West TN Research & Education Center (WTREC) Irrigated		On-farm Location (Gibson Co) Non-irrigated		
		Avg. Yield	Yield (bu/ac)		Grey	Yield (bu/ac)		Grey	Yield (bu/ac)		Yield (bu/ac)		
MS	Hybrid	(bu/ac)	*Treated	Non-treated	leaf spot	*Treated	Non-treated	leaf spot	*Treated	Non-treated	*Treated	Non-treated	
A	Dyna-Gro 55VC80**	205	109	112	LOW	189	187	LOW	256	240	192	193	SR
A	Dyna-Gro 56TC44	203	118	122	LOW	182	169	LOW	277	254	198	193	Curvularia,
A	AgriGold 645-16 VT2PRO***	203	105	108	LOW	194	174	LOW	244	242	184	188	Curvularia,
A	DeKalb 66-06 TRE*	202	98	105	LOW	200	183	LOW	287	264	205	192	Curvularia, S.Rust
A	DeKalb 65-95 VT2P***	200	118	113	MOD	193	193	LOW	227	210	185	178	Curvularia,
A	Progeny 2215 TRE	200	105	99	MOD	190	175	LOW	260	232	186	181	Curvularia, S.Rust
A	Progeny 9114 VT2P	197	106	95	LOW	192	197	MOD	247	235	188	196	Curvularia
A	Dyna-Gro 54VC34	196	100	108	LOW	211	192	LOW	254	250	178	184	Curvularia, S.Rust
	Average	**201**	**107**	**108**		**194**	**184**		**257**	**241**	**190**	**188**	

Yield adjusted to 15.5% moisture
MS= Varieties that have any MS letter in common are not statistically different in yield (based on 95% confidence)
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group in county trials

*Treated plots sprayed with Miravis Neo @13.7 fl oz/a + 0.25% Induce @ VT-R1 growth stage
On-farm locations: Jackson (JAX) hybrids planted Apr. 25, sprayed July 3, & harvested Sept. 10; Gibson Co hybrids planted Apr 17, sprayed June 24, & harvested Sept. 10
RECM hybrids planted Apr. 22, sprayed June 28, and harvested Sept. 26; WTREC hybrids planted Apr 16, sprayed June 25, & harvested Sept. 5

NONE, LOW, MOD, and HIGH is a relative ranking of disease severity at each location.
Disease ratings at On-farm JAX Location: Grey leaf spot ranged from 0.8 - 4.5%, averaged 1.7%
Disease ratings at RECM: Grey leaf spot ranged from 2.3 - 8.5%, averaged 3.8%

Disease ratings & yield data compiled by Dr. Heather Kelly and Wesley Crowder from replicated plots at 2 locations
County and large strip data provided by Ryan Blair, Ext. Area Specialist, and County Extension agents

Table 13. Overall average yields, moistures, and test weights of 7 medium-season (114-116 DAP) corn hybrids evaluated in both the County Standard Tests and AgResearch and Education Center Tests in Tennessee during 2024.

			Avg. of CST and REC Tests				REC Tests				CST Tests			
Hybrid†	Herbicide Pkg‡	Insect Pkg.‡	Avg. Yield§ (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group" in both tests	Avg. Yield§ (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group"	Avg. Yield§ (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group"
Dekalb DKC 66-06 TRE	RR	TRE	214	15.5	58.8	*	226	15.7	58.9	*	202	15.4	58.7	*
Dyna-Gro D56TC44 RIB	RR	TRE	210	15.3	58.8	*	217	15.5	58.7	*	203	15.0	59.0	*
Dekalb DKC 65-95 VT2P	RR	VT2P	206	15.4	59.8		212	15.3	59.4		200	15.5	60.2	*
Dyna-Gro D54VC34 RIB	RR	VT2P	204	15.0	59.2		212	14.9	58.9		196	15.1	59.5	*
Dyna-Gro D55VC80 RIB	RR	VT2P	203	15.8	58.5		202	16.0	58.2		205	15.6	58.9	*
Progeny PGY 9114 VT2P	RR	VT2P	203	14.8	59.5		209	14.9	59.2		197	14.8	59.8	*
Progeny PGY 2215 TRE	RR	TRE	202	15.8	59.4		203	16.0	58.7		200	15.5	60.2	*
Average			**206**	**15.4**	**59.2**		**212**	**15.5**	**58.8**		**200**	**15.3**	**59.5**	

‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.

Table 14. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials at eight AgResearch and Education Center locations in Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)	Protein‖ (%)	Oil‖ (%)	Starch‖ (%)
Revere 1839 TC*	RR	TRE	224 A	15.9 B-D	58 D	111 AB	51 AB	0.2	10.0 A	4.4 A-C	83.4 A
Dekalb DKC 68-35 VT2P*	RR	VT2P	224 A	16.2 A-C	59 C	105 CD	42 E	0.2	9.5 A	4.1 D	84.1 A
Integra 6915 TRE	RR	TRE	222 AB	16.1 A-C	58 D	108 BC	50 AB	0.0	9.9 A	4.6 A	82.1 A
Innvictis A1993 T	RR	TRE	221 AB	15.6 D	58 D	110 AB	52 A	0.2	9.7 A	4.4 A-C	83.2 A
Dyna-Gro D58VC74 RIB	RR	VT2P	211 BC	16.5 A	60 A-C	105 CD	45 DE	0.2	10.2 A	4.4 A-C	84.1 A
Innvictis A1792 T	RR	TRE	209 CD	16.6 A	60 AB	104 D	47 CD	0.9	10.0 A	4.4 A-C	84.0 A
Progeny PGY 9117 VT2P	RR	VT2P	206 CD	16.5 A	58 D	109 AB	42 E	0.6	9.2 A	4.5 AB	83.4 A
Progeny PGY 2118 VT2P	RR	VT2P	199 D	16.4 AB	60 A	105 D	46 D	0.3	10.0 A	4.3 B-D	82.2 A
Pioneer P17677YHR	RR, LL	YGCB, HX1	198 D	15.8 CD	59 BC	113 A	49 BC	0.1	9.8 A	4.3 CD	83.8 A
Trial Average			**213**	**16.2**	**59**	**59**	**47**	**0.3**	**9.8**	**4.4**	**83.4**
Trial Standard Error			**12**	**0.6**	**1**	**1**	**4**	**0.2**	**0.3**	**0.1**	**0.5**
Trial L.S.D.$_{.05}$			**11**	**0.5**	**1**	**1**	**3**	**-**	**N.S.**	**0.2**	**N.S.**
Trial C.V.			**9**	**6**	**2**	**2**	**9**	**-**	**4.3**	**2.9**	**0.9**
Number of locs.			**8**	**8**	**6**	**5**	**5**	**5**	**1**	**1**	**1**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.
The Spring Hill location was dropped from across locations analysis due to high trial variation.

Table 15. Mean yields across and by location of nine full-season (>116 DAP) corn hybrids evaluated in replicated small plot trials at nine AgResearch and Education Center locations in Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg.‡	Above Loc Avg.	Avg. Yield§ (bu/acre)	Knoxville Irr. (bu/acre)	Greeneville Non-Irr. (bu/acre)	Springfield Irr. (bu/acre)	Springfield Non-Irr. (bu/acre)	Milan Irr. (bu/acre)	Milan Non-Irr. (bu/acre)	Jackson Irr. (bu/acre)	Memphis Irr. (bu/acre)
Revere 1839 TC*	RR	TRE	88%	224 A	246 A	260 A	231 A	188 B-D	247 AB	233 A	215 A	171 A
Dekalb DKC 68-35 VT2P*	RR	VT2P	75%	224 A	255 A	276 A	213 A	225 A	254 A	230 A	186 A	151 A
Integra 6915 TRE	RR	TRE	100%	222 AB	252 A	264 A	217 A	215 AB	239 A-C	228 A	197 A	165 A
Innvictis A1993 T	RR	TRE	88%	221 AB	248 A	296 A	200 A	201 A-D	233 B-D	227 A	204 A	157 A
Dyna-Gro D58VC74 RIB	RR	VT2P	50%	211 BC	226 A	241 A	209 A	204 A-C	224 C-E	222 AB	213 A	145 A
Innvictis A1792 T	RR	TRE	25%	209 CD	239 A	243 A	193 A	203 A-C	230 B-D	224 AB	182 A	155 A
Progeny PGY 9117 VT2P	RR	VT2P	25%	206 CD	227 A	230 A	198 A	183 CD	219 DE	220 A-C	192 A	179 A
Progeny PGY 2118 VT2P	RR	VT2P	13%	199 D	255 A	220 A	198 A	173 D	220 DE	209 BC	174 A	140 A
Pioneer P17677YHR	RR, LL	YGCB, HX1	13%	198 D	239 A	239 A	194 A	208 A-C	209 E	203 C	155 A	136 A
Average				213	243	252	206	200	231	222	191	155
Standard Error				12	10	23	17	15	6	7	27	15
L.S.D.$_{.05}$				11	N.S.	N.S.	N.S.	28	18	18	N.S.	N.S.
C.V.				9	7	12	9	8	5	5	12	11

† Hybrids that have any MS letter in common are not significantly different in yield at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
Values highlighted in light orange are above average for a given trait, MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.
The Spring Hill location was dropped from across locations analysis due to high trial variation.

Table 16. Yields of 8 full-season (>116 DAP) Roundup / stacked corn hybrids in 14 County Standard Tests in Tennessee during 2024.‡

MS† Avg. Yield	Hybrid*	Avg. Yield§	Avg. Moisture	Avg. Test Weight	Brad	Crock	Fayt	Gibs	Harde	Hayw	HenB	HenT	Lewis	Madi	McNai	Mont	Weak	WTREC
		bu/acre	%	lbs/bu	5/3	4/15	4/16	4/17	4/16	4/22	4/15	4/22	5/2	4/29	4/26	4/29	4/18	4/16
A	AgriGold 647-79 VT2P	**213**	14.2	60.74	149	205	**190**	204	**254**	290	289	**238**	160	185	**117**	**196**	236	273
A	Dyna-Gro 60TC45	209	14.5	59.10	141	200	163	**214**	245	**291**	**300**	226	147	197	102	174	246	**285**
AB	DeKalb 68-35 VT2P *	209	14.2	60.72	**160**	**223**	157	204	251	277	278	237	**181**	187	92	184	240	256
BC	Pioneer P17677 YHR	201	14.1	60.85	134	190	155	187	245	284	270	228	146	186	90	182	**247**	265
CD	Dyna-Gro 58TC94	196	14.5	60.50	152	162	146	194	233	254	268	225	142	183	100	178	230	277
CD	Dyna-Gro 57VC53 RIB	196	14.6	60.56	129	192	158	198	226	267	269	202	155	**207**	89	188	212	248
CD	Progeny 2118 VT2P	194	14.4	61.01	132	204	185	198	217	257	259	216	158	191	81	162	215	244
D	NuTech 77A5 AM	191	14.1	59.63	118	201	154	181	236	260	246	212	159	184	73	180	234	239
	Average	201	14	60	139	197	164	198	238	272	272	223	156	190	93	180	232	261

‡ Data Provided by Ryan Blair, Ext. Area Specialist, Grain and Cotton Variety Testing, and Extension agents in counties shown above.
† Hybrids that have any MS letter in common are not significantly different in yield at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
§ All yields are adjusted to 15.5% moisture.
Highlighted cells indicate hybrids that were above average and bold/underline values indicate the top yield, within a location.
County locations include: Bradley, Crockett, Fayette, Gibson, Hardeman, Haywood, Henry (2 locs), Lewis, Madison, McNairy, Montgomery, Weakley, WTREC (Jackson).

Table 17. Yields and disease ratings of 8 Full-season (117+ DAP) Roundup / stacked corn hybrids in 14 County Standard Tests and in small plot and large strip **trials at 2 locations in Tennessee during 2024.**

Summary from County Tests			Summary from Small Plot Research						Summary from Large Strip Research				Other Diseases Observed
			On-farm Location (JAX) Non-irrigated			Research & Education Center at Milan (RECM) Irrigated			West TN Research & Education Center (WTREC) Irrigated		On-farm Location (Gibson Co) Non-irrigated		
		Avg. Yield	Yield (bu/ac)		Grey	Yield (bu/ac)		Grey	Yield (bu/ac)		Yield (bu/ac)		
MS	Hybrid	(bu/ac)	*Treated	Non-treated	leaf spot	*Treated	Non-treated	leaf spot	*Treated	Non-treated	*Treated	Non-treated	
A	AgriGold 647-79 VT2P	213	97	95	LOW	193	187	LOW	283	264	205	202	Curvularia
A	Dyna-Gro 60TC45	209	97	104	LOW	187	189	LOW	301	269	210	218	Curvularia
AB	DeKalb 68-35 VT2P *	209	80	90	LOW	199	203	LOW	270	242	200	209	Curvularia, S.Rust
BC	Pioneer P17677 YHR	201	86	68	LOW	178	173	LOW	279	251	192	183	Curvularia
CD	Dyna-Gro 58TC94	196	95	85	LOW	178	190	MOD	286	268	197	192	
CD	Dyna-Gro 57VC53 RIB	196	86	80	LOW	178	179	LOW	259	237	197	199	S.Rust
CD	Progeny 2118 VT2P	194	98	98	LOW	168	169	LOW	253	235	198	197	Curvularia
D	NuTech 77A5 AM	191	79	75	NONE	161	154	LOW	254	224	181	181	
	Average	**201**	**90**	**87**		**180**	**180**		**273**	**249**	**197**	**198**	

Yield adjusted to 15.5% moisture
MS= Varieties that have any MS letter in common are not statistically different in yield (based on 95% confidence)
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group in county trials

*Treated plots sprayed with Miravis Neo @13.7 fl oz/a + 0.25% Induce @ VT-R1 growth stage
On-farm locations:Jackson (JAX) hybrids planted Apr. 25, sprayed July 3, & harvested Sept. 10; Gibson Co hybrids planted Apr 17, sprayed June 24, & harvested Sept. 10
RECM hybrids planted Apr. 22, sprayed June 28, & harvested Oct. 7; WTREC hybrids planted Apr 16, sprayed June 25, & harvested Sept. 5

NONE, LOW, MOD, and HIGH is a relative ranking of disease severity at each location.
Disease ratings at On-farm JAX Location: Grey leaf spot ranged from 0 - 2.8%, averaged 1.5%
Disease ratings at RECM: Grey leaf spot ranged from 0.8 - 8.5%, averaged 4.6%

Disease ratings & yield data compiled by Dr. Heather Kelly and Wesley Crowder from replicated plots at 2 locations
County and large strip data provided by Ryan Blair, Ext. Area Specialist, and County Extension agents

Table 18. Overall average yields, moistures, and test weights of 3 full-season (>116 DAP) corn hybrids evaluated in both the County Standard Tests and AgResearch and Education Center Tests in Tennessee during 2024.

			Avg. of CST and REC Tests				REC Tests				CST Tests			
Hybrid†	Herbicide Pkg‡	Insect Pkg.‡	Avg. Yield§ (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group" in both tests	Avg. Yield§ (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group"	Avg. Yield§ (bu/*acre*)	Avg. Moisture (%)	Avg. Test Weight (lbs/bu)	"A group"
Dekalb DKC 68-35 VT2P	RR	VT2P	216	15.2	60.0	*	224	16.2	59.2	*	209	14.2	60.7	*
Pioneer P17677YHR	RR, LL	YGCB, HX1	199	15.0	60.1		198	15.8	59.3		201	14.1	60.9	
Progeny PGY 2118 VT2P	RR	VT2P	196	15.4	60.6		199	16.4	60.1		194	14.4	61.0	
Average			**204**	**15.2**	**60.2**		**207**	**16.2**	**59.6**		**201**	**14.3**	**60.9**	

‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.

Table 19. Characteristics, as described by the seed company, of corn hybrids evaluated in yield tests in Tennessee during 2024.

Hybrid	Herb. Pkg.[§]	Insect Pkg.[§]	Refuge	Maturity	Test	Seed Treatment
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	Y	115	Med Corn	CruiserMaxx, Vibrance
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	Y	114	Med Corn	Acceleron 500
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	Y	114	Med Corn	Acceleron 500
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	Y	111	Early Corn	P500+B360+EDC
Dekalb DKC 64-22 VT2P	RR	VT2P	N	114	Med Corn	PV1250+B360+EDC
Dekalb DKC 65-95 VT2P	RR	VT2P	N	115	Med Corn	PV1250+B360+EDC
Dekalb DKC 66-06 TRE*	RR	TRE	N	116	Med Corn	PV1250+B360+EDC
Dekalb DKC 68-35 VT2P*	RR	VT2P	N	118	Full Corn	PV1250+B360+EDC
Dyna-Gro D51VC95 RIB	RR	VT2P	Y	111	Early Corn	PV500
Dyna-Gro D53VC54 RIB	RR	VT2P	Y	113	Early Corn	PV500
Dyna-Gro D54VC34 RIB	RR	VT2P	Y	114	Med Corn	PV500
Dyna-Gro D55VC80 RIB	RR	VT2P	Y	115	Med Corn	PV500
Dyna-Gro D56TC44 RIB	RR	TRE	Y	116	Med Corn	PV500
Dyna-Gro D58VC74 RIB	RR	VT2P	Y	118	Full Corn	PV500
Great Heart Seed HT-7360 VT2	RR	VT2P	Y	113	Early Corn	P250
Great Heart Seed HT-7500 TRE	RR	TRE	Y	115	Med Corn	P250
Innvictis A1072 VT2P RIB	RR	VT2P	Y	110	Early Corn	Poncho 250
Innvictis A1292 VT2P	RR	VT2P	Y	112	Early Corn	Poncho 250
Innvictis A1312 VT2P RIB	RR	VT2P	Y	114	Med Corn	Poncho 250
Innvictis A1542 T	RR	TRE	N	115	Med Corn	Poncho 250
Innvictis A1551 VT2P	RR	VT2P	N	115	Med Corn	Poncho 250
Innvictis A1689 T	RR	TRE	N	116	Med Corn	Poncho 250
Innvictis A1792 T	RR	TRE	N	117	Full Corn	Poncho 250
Innvictis A1993 T	RR	TRE	N	119	Full Corn	Poncho 250
Integra 6493 VT2P	RR	VT2P	N	114	Med Corn	PV500+Stepup
Integra 6915 TRE	RR	TRE	N	119	Full Corn	PV500+Stepup
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	N	113	Early Corn	Maxim Quattro +
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	N	113	Early Corn	Maxim Quattro +
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	N	114	Med Corn	Maxim Quattro +
Pioneer P17677YHR	RR, LL	YGCB, HX1	N	117	Full Corn	Maxim Quattro +
Progeny PGY 2010 TRE	RR	TRE	N	110	Early Corn	PV1250+B360+EDC
Progeny PGY 2118 VT2P	RR	VT2P	N	118	Full Corn	PV1250+B360+EDC
Progeny PGY 2215 TRE	RR	TRE	N	115	Med Corn	PV1250+B360+EDC
Progeny PGY 9114 VT2P	RR	VT2P	N	114	Med Corn	PV1250+B360+EDC
Progeny PGY 9117 VT2P	RR	VT2P	N	117	Full Corn	PV1250+B360+EDC
Progeny PGY2314 TRE*	RR	TRE	N	114	Med Corn	PV1250+B360+EDC
Revere 113-T4C	RR	CB, VP	N	113	Early Corn	Radius 500
Revere 114-P35	RR	CB	N	114	Med Corn	Radius 500
Revere 1627 TC**	RR	TRE	N	116	Med Corn	Radius 500
Revere 1839 TC*	RR	TRE	N	118	Full Corn	Radius 500

* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.

Table 20. Contact information for corn hybrid seed companies evaluated in yield tests in Tennessee during 2022.

Company	Contact	Phone	Email	Web site
1st Choice Seeds	Steve Miller	423-736-2256	smiller@1stchoiceseeds.com	https://www.1stchoiceseeds.com
Bayer Crop Science	Wes Rodgers	731-478-4349	wesley.rodgers@bayer.com	www.cropscience.bayer.us/brands/dekalb
Dyna-Gro Seed / Nutrien Ag Solutions	Brock Sargeant	270-881-3003	brock.sargeant@nutrien.com	www.dynagroseed.com
Great Heart Seed	David Lucas	217-737-6754	dave.lucas772@gmail.com	www.greatheardseed.com
Erwin/Keith-Progeny	Brian Murray	870-208-4428	bmurray@progenyag.com	www.progenyag.com/
Innvictis Seed Solutions	Max Crittenden	254-652-0032	max.crittenden@innvictis.com	www.innvictis.com
Integra	Nich Chammoun	229-854-0524	nchammoun@cniag.com	www.integraseed.com
Pioneer Seeds	Suzannah Wiggins	731-443-0512	suzannah.wiggins@corteva.com	www.pioneer.com
Revere Seed	Cory Chelko	570-772-3262	cory.chelko@revereseed.com	www.revereseed.com

Table 21. Abbreviations used to identify biotech traits of corn grain hybrids evaluated in Tennessee during 2022.

Abbreviation	Name	Characteristic
LL	LibertyLink	Glufosinate tolerance.
RR, RR2, GT	Roundup Ready, Roundup Ready 2	Glyphosate tolerance.
ENL	Enlist	2,4-D tolerance
FOP	FOP	FOP herbicide tolerance
3000GT	Agrisure 3000GT	Protection from corn earworm, European corn borer, sugarcane borer, southwestern corn borer, corn rootworm. Glyphosate and glufosinate tolerance.
CB		Protection from European corn borer.
D2	Agrisure Duracade 5222 E-Z	Protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, southwestern corn borer, true armyworm, western bean cutworm, corn rootworm. Glyphosate tolerance. Glufosinate tolerance (EZ1=yes, EZ0=no)
HX1	DowAgrosciences Pioneer Hi-Bred Herculex I	Protection from western bean cutworm, corn borer, black cutworm and fall armyworm resistance. Glyphosate and glufosinate tolerance.
SS	Monsanto Genuity SmartStax DowAgrosciences SmartStax	Protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, Sugarcane borer, Southwestern corn borer, corn rootworm. Glyphosate and glufosinate tolerance.
TRE	Trecepta	Protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, southwestern corn borer, true armyworm, western bean cutworm. Glyphosate tolerance.
VR	Agrisure Viptera 3110	Protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, southwestern corn borer, true armyworm, western bean cutworm. Glyphosate tolerance and glufosinate tolerance.
VT2P	Monsanto Genuity VT Double PRO	Protection from corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, southwestern corn borer. Glyphosate tolerance.
VZ	Agrisure Viptera 3220 E-Z	Protection from black cutworm, corn earworm, European corn borer, fall armyworm, stalk borer, sugarcane borer, southwestern corn borer, true armyworm, western bean cutworm. Glyphosate tolerance. Glufosinate tolerance (EZ1=yes, EZ0=no).
YGCB	Monsanto YieldGard Corn Borer	Protection from European and Southwestern Corn Borers, Sugarcane Borer and Southern Cornstalk Borer.

Table A-1. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the East Tennessee AgResearch and Education Center in Knoxville, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)	Protein‖ (%)	Oil‖ (%)	Starch‖ (%)
Revere 113-T4C	RR	CB, VP	272 A	15.0 AB	55 B	124 A	55 A	2.3	10.1 A	4.5 A	83.0 CD
Dyna-Gro D51VC95 RIB	RR	VT2P	271 A	13.4 CD	55 BC	122 A	49 A	1.7	9.4 A	4.2 BC	84.2 AB
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	265 A	15.4 AB	55 BC	120 A	54 A	1.5	9.8 A	4.4 A-C	82.9 CD
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	265 A	15.2 AB	54 D	117 A	52 A	1.3	9.9 A	4.2 C	83.5 BC
Dyna-Gro D53VC54 RIB	RR	VT2P	262 A	15.1 AB	56 A	124 A	56 A	0.8	10.3 A	4.2 C	83.6 A-C
Progeny PGY 2010 TRE	RR	TRE	259 A	12.6 DE	54 CD	117 A	52 A	1.6	10.1 A	4.4 AB	82.8 CD
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	258 A	14.5 BC	57 A	121 A	52 A	2.0	10.2 A	4.2 C	84.1 AB
Innvictis A1292 VT2P	RR	VT2P	258 A	14.4 BC	56 A	121 A	48 A	0.6	9.9 A	4.0 D	84.5 A
Innvictis A1072 VT2P RIB	RR	VT2P	256 A	12.2 E	54 D	122 A	55 A	3.4	9.9 A	4.5 A	82.2 D
Great Heart Seed HT-7360 VT2	RR	VT2P	251 A	16.1 A	55 BC	125 A	52 A	3.5	10.4 A	3.9 D	84.1 AB
Trial Average			262	14.4	55	121	53	1.9	10.0	4.3	83.5
Trial Standard Error			7	0.4	0	2	2	0.9	0.2	0.1	0.3
Trial L.S.D.$_{.05}$			N.S.	1.2	1	N.S.	N.S.	.	N.S.	0.2	1.0
Trial C.V.			4	5	1	3	8		3.7	2.5	0.7

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-2. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated at the East Tennessee AgResearch and Education Center in Knoxville, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)	Protein‖ (%)	Oil‖ (%)	Starch‖ (%)
Revere 1627 TC**	RR	TRE	273 A	15.5 A	57 C-E	120 CD	53 A-C	2.9	10.5 A-D	4.3 A-C	83.6 B-F
Dyna-Gro D56TC44 RIB	RR	TRE	273 AB	15.6 A	58 C	122 BC	50 B-E	0.6	10.2 B-F	4.5 A	84.0 B-E
Innvictis A1551 VT2P	RR	VT2P	272 A-C	14.7 A	56 K	121 B-D	48 C-E	2.7	9.7 F-H	4.3 BC	83.1 EF
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	271 A-C	15.4 A	57 H-J	123 BC	49 C-E	2.7	10.1 B-F	4.0 D	84.2 BC
Progeny PGY2314 TRE*	RR	TRE	264 A-D	14.8 A	57 C-E	118 CD	52 B-D	2.5	10.1 B-F	4.4 AB	82.8 FG
Dekalb DKC 64-22 VT2P	RR	VT2P	263 A-D	15.4 A	59 A	119 CD	54 A-C	1.1	10.1 B-G	4.3 A-C	83.8 B-F
Dekalb DKC 66-06 TRE*	RR	TRE	259 A-D	15.9 A	57 E-I	123 BC	51 B-E	1.7	9.4 GH	4.2 C	83.7 B-F
Revere 114-P35	RR	CB	254 A-E	15.0 A	57 F-I	121 B-D	45 E	10.5	9.7 F-H	3.9 D	84.5 AB
Integra 6493 VT2P	RR	VT2P	252 A-F	15.1 A	57 C-G	122 B-D	50 B-E	4.5	9.8 D-H	4.3 A-C	84.1 B-E
Great Heart Seed HT-7500 TRE	RR	TRE	251 A-F	16.5 A	57 G-I	126 AB	59 A	2.4	10.5 A-E	4.3 A-C	83.6 B-F
Innvictis A1542 T	RR	TRE	250 A-F	15.6 A	57 D-H	112 E	52 B-D	0.3	9.8 E-H	4.4 AB	83.9 B-E
Innvictis A1689 T	RR	TRE	248 A-F	15.5 A	59 AB	120 B-D	52 A-C	4.3	11.0 A	4.3 BC	81.9 G
Innvictis A1312 VT2P RIB	RR	VT2P	248 A-F	14.7 A	56 K	116 DE	51 B-E	5.0	10.1 B-F	4.3 A-C	83.3 C-F
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	247 A-F	14.9 A	57 E-I	131 A	54 A-C	0.6	9.7 F-H	4.2 C	85.4 A
Dekalb DKC 65-95 VT2P	RR	VT2P	246 B-F	15.5 A	59 B	116 DE	47 C-E	3.4	10.1 C-G	4.3 A-C	84.2 B-D
Progeny PGY 2215 TRE	RR	TRE	245 C-F	15.5 A	58 C	122 BC	48 C-E	0.3	10.8 AB	4.2 C	83.7 B-F
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	243 D-F	15.1 A	56 JK	118 CD	50 B-E	1.5	9.1 H	4.2 C	85.3 A
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	243 D-F	15.3 A	58 CD	121 B-D	56 AB	0.3	10.7 A-C	4.3 A-C	83.3 C-F
Dyna-Gro D54VC34 RIB	RR	VT2P	238 D-F	15.0 A	57 E-I	120 CD	49 C-E	3.4	9.3 H	4.4 A	83.2 D-F
Dyna-Gro D55VC80 RIB	RR	VT2P	230 EF	15.4 A	56 IJ	120 B-D	53 A-C	1.6	10.3 B-F	4.3 A-C	83.9 B-E
Progeny PGY 9114 VT2P	RR	VT2P	225 F	14.8 A	57 C-F	111 E	46 DE	1.2	9.1 H	4.2 C	83.8 B-E
Trial Average			**252**	**15.3**	**57**	**120**	**51**	**2.5**	**10.0**	**4.3**	**83.8**
Trial Standard Error			**10**	**0.4**	**0**	**2**	**2**	**1.1**	**0.3**	**0.1**	**0.3**
Trial L.S.D.$_{.05}$			**27**	**N.S.**	**1**	**6**	**7**	**.**	**0.7**	**0.2**	**1.0**
Trial C.V.			**7**	**4**	**1**	**3**	**8**		**4.3**	**2.6**	**0.7**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-3. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the East Tennessee AgResearch and Education Center in Knoxville, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)	Protein‖ (%)	Oil‖ (%)	Starch‖ (%)
Progeny PGY 2118 VT2P	RR	VT2P	255 A	16.2 A	58 A-C	124 A	58 AB	2.1	10.0 A	4.3 B-D	82.2 A
Dekalb DKC 68-35 VT2P*	RR	VT2P	255 A	15.8 A	58 B-D	123 A	48 C	1.6	9.5 A	4.1 D	84.1 A
Integra 6915 TRE	RR	TRE	252 A	16.8 A	56 E	119 A	63 A	0.3	9.9 A	4.6 A	82.1 A
Innvictis A1993 T	RR	TRE	248 A	15.8 A	57 DE	121 A	62 A	1.2	9.7 A	4.4 A-C	83.2 A
Revere 1839 TC*	RR	TRE	246 A	16.2 A	57 C-E	130 A	63 A	1.2	10.0 A	4.4 A-C	83.4 A
Pioneer P17677YHR	RR, LL	YGCB, HX1	239 A	15.6 A	59 A-C	128 A	59 AB	0.9	9.8 A	4.3 CD	83.8 A
Innvictis A1792 T	RR	TRE	239 A	17.3 A	60 A	119 A	58 AB	6.6	10.0 A	4.4 A-C	84.0 A
Progeny PGY 9117 VT2P	RR	VT2P	227 A	16.1 A	58 C-E	123 A	52 BC	4.0	9.2 A	4.5 AB	83.4 A
Dyna-Gro D58VC74 RIB	RR	VT2P	226 A	16.3 A	59 AB	120 A	57 AB	1.5	10.2 A	4.4 A-C	84.1 A
Trial Average			**243**	**16.2**	**58**	**123**	**58**	**2.2**	**9.8**	**4.4**	**83.4**
Trial Standard Error			**10**	**0.5**	**0**	**2**	**2**	**1.2**	**0.3**	**0.1**	**0.5**
Trial L.S.D.$_{.05}$			**N.S.**	**N.S.**	**1**	**N.S.**	**7**	**.**	**N.S.**	**0.2**	**N.S.**
Trial C.V.			**7**	**5**	**1**	**3**	**7**		**4.3**	**2.9**	**0.9**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-4. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the Northeast Tennessee AgResearch and Education Center in Greeneville, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	245 A	17.9 BC	57 A-C	113 A	47 BC	0.3
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	231 A	18.6 AB	57 A-C	112 A	49 AB	0.3
Dyna-Gro D51VC95 RIB	RR	VT2P	224 AB	17.4 C	56 CD	111 A	47 BC	0.3
Progeny PGY 2010 TRE	RR	TRE	222 AB	18.0 BC	55 D	113 A	45 BC	0.3
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	216 AB	18.5 AB	58 AB	117 A	45 BC	0.0
Dyna-Gro D53VC54 RIB	RR	VT2P	211 AB	18.6 AB	58 A	116 A	47 B	0.0
Innvictis A1072 VT2P RIB	RR	VT2P	194 BC	18.2 BC	53 E	117 A	49 AB	0.3
Great Heart Seed HT-7360 VT2	RR	VT2P	192 BC	19.1 A	57 BC	116 A	43 C	0.3
Revere 113-T4C	RR	CB, VP	190 BC	18.1 BC	56 CD	116 A	52 A	0.3
Innvictis A1292 VT2P	RR	VT2P	161 C	18.3 AB	56 CD	108 A	46 BC	0.3
Trial Average			**209**	**18.3**	**56**	**114**	**47**	**0.2**
Trial Standard Error			**14**	**0.3**	**0**	**2**	**2**	**0.2**
Trial L.S.D.$_{.05}$			**37**	**0.8**	**1**	**N.S.**	**4**	**.**
Trial C.V.			**10**	**3**	**1**	**4**	**5**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
ǁ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-5. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the Northeast Tennessee AgResearch and Education Center in Greeneville, Tennessee during 2024.

Analysis not presented due to high trial variation

Table A-6. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the Northeast Tennessee AgResearch and Education Center in Greeneville, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Innvictis A1993 T	RR	TRE	296 A	19.4 CD	56 C	121 A	58 A	0.0
Dekalb DKC 68-35 VT2P*	RR	VT2P	276 A	21.1 A	58 B	116 A-C	49 C	0.0
Integra 6915 TRE	RR	TRE	264 A	19.8 B-D	56 C	119 AB	56 AB	0.0
Revere 1839 TC*	RR	TRE	260 A	18.9 D	56 C	117 A-C	56 AB	0.0
Innvictis A1792 T	RR	TRE	243 A	20.6 A-C	59 AB	111 C	52 BC	0.0
Dyna-Gro D58VC74 RIB	RR	VT2P	241 A	19.8 A-D	58 AB	113 BC	49 C	0.0
Pioneer P17677YHR	RR, LL	YGCB, HX1	239 A	19.6 CD	58 AB	121 A	55 A-C	0.0
Progeny PGY 9117 VT2P	RR	VT2P	230 A	21.1 AB	58 AB	121 A	50 C	0.3
Progeny PGY 2118 VT2P	RR	VT2P	220 A	21.1 AB	59 A	113 BC	49 C	0.0
Trial Average			**252**	**20.1**	**57**	**117**	**53**	**0.0**
Trial Standard Error			**23**	**0.5**	**1**	**3**	**2**	**0.0**
Trial L.S.D.$_{.05}$			**N.S.**	**1.3**	**1**	**6**	**6**	**.**
Trial C.V.			**12**	**4**	**1**	**3**	**6**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-7. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2024.

Analysis not presented due to high trial variation

Table A-8. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Dekalb DKC 66-06 TRE*	RR	TRE	249 A	16.0 A-C	61 C-G	107 A	40 A	0.0
Innvictis A1542 T	RR	TRE	232 A	16.1 A-C	61 C-F	101 B-F	39 A	0.0
Dekalb DKC 64-22 VT2P	RR	VT2P	226 A	15.0 C-E	63 A	100 D-F	35 A	0.0
Innvictis A1689 T	RR	TRE	224 A	14.2 EF	63 A	103 A-F	38 A	0.0
Innvictis A1312 VT2P RIB	RR	VT2P	220 A	17.3 A	59 I	103 A-F	38 A	0.0
Revere 114-P35	RR	CB	218 A	16.1 A-C	60 GH	108 A	39 A	0.0
Innvictis A1551 VT2P	RR	VT2P	213 A	15.9 A-D	61 C-H	100 C-F	35 A	0.0
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	212 A	16.2 A-C	60 E-H	107 AB	39 A	0.0
Great Heart Seed HT-7500 TRE	RR	TRE	211 A	17.1 A	60 D-H	105 A-D	44 A	0.0
Dyna-Gro D56TC44 RIB	RR	TRE	211 A	16.5 AB	61 C-G	104 A-E	38 A	0.0
Integra 6493 VT2P	RR	VT2P	206 A	16.3 A-C	60 F-H	101 B-F	36 A	0.0
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	205 A	15.4 B-E	61 C-G	106 A-C	39 A	0.0
Dyna-Gro D55VC80 RIB	RR	VT2P	204 A	16.6 AB	60 HI	105 A-D	41 A	0.0
Dekalb DKC 65-95 VT2P	RR	VT2P	203 A	16.1 A-C	61 B-E	103 A-F	44 A	0.0
Progeny PGY 9114 VT2P	RR	VT2P	202 A	14.6 D-F	62 AB	97 F	34 A	0.0
Dyna-Gro D54VC34 RIB	RR	VT2P	200 A	15.4 B-E	61 C-H	101 C-F	38 A	0.0
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	199 A	16.5 AB	61 C-G	103 A-F	36 A	0.0
Progeny PGY2314 TRE*	RR	TRE	196 A	14.4 EF	62 BC	98 EF	36 A	0.0
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	195 A	13.4 F	61 B-D	103 A-F	33 A	0.0
Revere 1627 TC**	RR	TRE	191 A	15.0 C-E	61 B-D	100 C-F	36 A	0.0
Progeny PGY 2215 TRE	RR	TRE	188 A	17.1 A	60 F-H	107 A	39 A	0.0
Trial Average			**210**	**15.8**	**61**	**103**	**38**	**0.0**
Trial Standard Error			**12**	**0.5**	**0**	**3**	**3**	**0.0**
Trial L.S.D.$_{.05}$			**N.S.**	**1.4**	**1**	**6**	**N.S.**	**.**
Trial C.V.			**9**	**5**	**1**	**3**	**10**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-9. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Revere 1839 TC*	RR	TRE	231 A	17.7 A	59 C	110 AB	45 A	0.0
Integra 6915 TRE	RR	TRE	217 A	17.4 A	60 C	102 BC	38 B-D	0.0
Dekalb DKC 68-35 VT2P*	RR	VT2P	213 A	16.0 A	62 AB	100 C	36 CD	0.0
Dyna-Gro D58VC74 RIB	RR	VT2P	209 A	17.1 A	62 B	99 C	36 CD	0.0
Innvictis A1993 T	RR	TRE	200 A	17.5 A	60 C	105 A-C	41 A-C	0.0
Progeny PGY 2118 VT2P	RR	VT2P	198 A	16.2 A	63 A	99 C	39 A-D	0.0
Progeny PGY 9117 VT2P	RR	VT2P	198 A	16.9 A	61 B	104 A-C	34 D	0.0
Pioneer P17677YHR	RR, LL	YGCB, HX1	194 A	15.7 A	62 B	111 A	44 AB	0.0
Innvictis A1792 T	RR	TRE	193 A	17.4 A	62 AB	98 C	40 A-D	0.0
Trial Average			**206**	**16.9**	**61**	**103**	**39**	**0.0**
Trial Standard Error			**17**	**0.6**	**0**	**5**	**3**	**0.0**
Trial L.S.D.$_{.05}$			**N.S.**	**N.S.**	**1**	**7**	**6**	**.**
Trial C.V.			**9**	**6**	**1**	**4**	**9**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-10. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	235 A	13.4 AB	64 A	108 A	41 A	0.0
Progeny PGY 2010 TRE	RR	TRE	229 A	12.9 BC	62 CD	105 A	42 A	0.0
Innvictis A1292 VT2P	RR	VT2P	226 A	14.6 A	64 AB	107 A	42 A	0.0
Dyna-Gro D53VC54 RIB	RR	VT2P	225 A	13.3 AB	65 A	109 A	43 A	0.0
Revere 113-T4C	RR	CB, VP	225 A	14.3 A	62 B-D	112 A	47 A	0.0
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	222 A	12.3 BC	63 BC	112 A	41 A	0.0
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	221 A	12.7 BC	61 D	106 A	41 A	0.0
Innvictis A1072 VT2P RIB	RR	VT2P	217 A	11.8 C	62 CD	110 A	43 A	0.0
Great Heart Seed HT-7360 VT2	RR	VT2P	217 A	14.6 A	62 CD	109 A	41 A	0.0
Dyna-Gro D51VC95 RIB	RR	VT2P	213 A	12.4 BC	62 B-D	103 A	35 A	0.0
Trial Average			**223**	**13.2**	**63**	**108**	**42**	**0.0**
Trial Standard Error			**9**	**0.5**	**0**	**3**	**3**	**0.0**
Trial L.S.D.$_{.05}$			**N.S.**	**1.4**	**1**	**N.S.**	**N.S.**	**.**
Trial C.V.			**7**	**6**	**1**	**5**	**11**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-11. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Innvictis A1689 T	RR	TRE	227 A	14.4 B-E	64 A	107 A	43 A	0.0
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	226 A	14.9 B-D	61 G-I	110 A	37 A	0.0
Revere 1627 TC**	RR	TRE	226 A	15.7 A-C	62 D-H	107 A	45 A	0.0
Revere 114-P35	RR	CB	223 A	15.1 B-D	61 F-H	109 A	38 A	0.0
Innvictis A1551 VT2P	RR	VT2P	221 A	14.2 C-E	63 D	103 A	40 A	0.0
Progeny PGY2314 TRE*	RR	TRE	219 AB	15.3 B-D	62 D-G	107 A	41 A	0.0
Dekalb DKC 65-95 VT2P	RR	VT2P	217 AB	14.8 B-D	64 AB	107 A	43 A	0.0
Integra 6493 VT2P	RR	VT2P	216 AB	14.0 DE	63 DE	105 A	43 A	0.0
Progeny PGY 9114 VT2P	RR	VT2P	214 AB	14.6 B-D	62 D-G	103 A	41 A	0.0
Innvictis A1312 VT2P RIB	RR	VT2P	214 AB	15.2 B-D	60 I	106 A	40 A	0.0
Innvictis A1542 T	RR	TRE	213 AB	15.7 A-C	62 D-G	108 A	39 A	0.0
Dekalb DKC 64-22 VT2P	RR	VT2P	213 AB	15.1 B-D	64 A-C	105 A	42 A	0.0
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	212 AB	13.1 E	63 B-D	113 A	44 A	0.0
Dekalb DKC 66-06 TRE*	RR	TRE	212 AB	15.0 B-D	62 D-G	111 A	46 A	0.0
Dyna-Gro D56TC44 RIB	RR	TRE	211 A-C	15.4 B-D	62 D-G	109 A	44 A	0.0
Dyna-Gro D54VC34 RIB	RR	VT2P	210 A-C	14.0 DE	63 B-D	105 A	40 A	0.0
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	206 A-C	14.4 C-E	62 D-F	115 A	39 A	0.0
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	201 A-D	17.0 A	62 E-H	108 A	37 A	0.0
Great Heart Seed HT-7500 TRE	RR	TRE	194 B-D	15.9 AB	62 D-G	115 A	44 A	0.0
Dyna-Gro D55VC80 RIB	RR	VT2P	186 CD	15.9 AB	61 HI	108 A	39 A	0.0
Progeny PGY 2215 TRE	RR	TRE	175 D	14.8 B-D	63 CD	111 A	42 A	0.0
Trial Average			**211**	**15.0**	**62**	**108**	**41**	**0.0**
Trial Standard Error			**11**	**0.7**	**0**	**3**	**3**	**0.0**
Trial L.S.D.$_{.05}$			**26**	**1.5**	**1**	**N.S.**	**N.S.**	**.**
Trial C.V.			**7**	**6**	**1**	**4**	**14**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-12. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Dekalb DKC 68-35 VT2P*	RR	VT2P	225 A	15.1 A	64 AB	107 B-D	40 CD	0.0
Integra 6915 TRE	RR	TRE	215 AB	15.7 A	61 E	111 AB	47 AB	0.0
Pioneer P17677YHR	RR, LL	YGCB, HX1	208 A-C	14.5 A	63 A-C	114 A	46 AB	0.0
Dyna-Gro D58VC74 RIB	RR	VT2P	204 A-C	15.8 A	63 B-D	102 E	42 B-D	0.0
Innvictis A1792 T	RR	TRE	203 A-C	14.6 A	64 AB	105 DE	45 A-C	0.0
Innvictis A1993 T	RR	TRE	201 A-D	14.6 A	62 E	111 A-C	49 A	0.0
Revere 1839 TC*	RR	TRE	188 B-D	15.8 A	62 DE	111 A-C	48 AB	0.0
Progeny PGY 9117 VT2P	RR	VT2P	183 CD	16.2 A	62 C-E	107 C-E	38 D	0.0
Progeny PGY 2118 VT2P	RR	VT2P	173 D	14.7 A	64 A	104 DE	42 B-D	0.0
Trial Average			**200**	**15.2**	**63**	**108**	**44**	**0.0**
Trial Standard Error			**15**	**0.9**	**1**	**2**	**2**	**0.0**
Trial L.S.D.$_{.05}$			**28**	**N.S.**	**1**	**4**	**6**	**.**
Trial C.V.			**8**	**5**	**1**	**2**	**8**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-13. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the Middle Tennessee AgResearch and Education Center in Spring Hill, Tennessee during 2024.

Analysis not presented due to high trial variation

Table A-14. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the Middle Tennessee AgResearch and Education Center in Spring Hill, Tennessee during 2024.

Analysis not presented due to high trial variation

Table A-15. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the Middle Tennessee AgResearch and Education Center in Spring Hill, Tennessee during 2024.

Analysis not presented due to high trial variation

Table A-16. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	259 A	15.8 C
Innvictis A1292 VT2P	RR	VT2P	252 AB	15.9 BC
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	252 AB	15.7 CD
Revere 113-T4C	RR	CB, VP	246 A-C	15.8 C
Dyna-Gro D53VC54 RIB	RR	VT2P	239 BC	17.1 AB
Progeny PGY 2010 TRE	RR	TRE	238 BC	14.4 E
Dyna-Gro D51VC95 RIB	RR	VT2P	236 B-D	15.2 C-E
Innvictis A1072 VT2P RIB	RR	VT2P	234 CD	14.6 DE
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	232 CD	14.9 C-E
Great Heart Seed HT-7360 VT2	RR	VT2P	220 D	17.2 A
Trial Average			**241**	**15.7**
Trial Standard Error			**7**	**0.4**
Trial L.S.D.$_{.05}$			**17**	**1.2**
Trial C.V.			**4**	**4**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-17. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)		Moisture at Harvest (%)	
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	251	A	15.2	HI
Revere 114-P35	RR	CB	245	A	15.4	F-I
Dekalb DKC 64-22 VT2P	RR	VT2P	244	A	16.1	B-D
Dekalb DKC 66-06 TRE*	RR	TRE	242	A	15.4	G-I
Dekalb DKC 65-95 VT2P	RR	VT2P	238	A	15.9	C-F
Progeny PGY2314 TRE*	RR	TRE	238	A	15.6	D-H
Dyna-Gro D54VC34 RIB	RR	VT2P	237	A	15.5	E-I
Progeny PGY 9114 VT2P	RR	VT2P	234	A	15.4	F-I
Innvictis A1542 T	RR	TRE	232	A	15.1	I
Dyna-Gro D56TC44 RIB	RR	TRE	232	A	15.4	G-I
Innvictis A1312 VT2P RIB	RR	VT2P	231	A	14.3	J
Great Heart Seed HT-7500 TRE	RR	TRE	229	A	16.0	C-E
Integra 6493 VT2P	RR	VT2P	229	A	15.1	I
Innvictis A1551 VT2P	RR	VT2P	228	A	14.5	J
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	227	A	15.3	G-I
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	226	A	16.7	A
Innvictis A1689 T	RR	TRE	225	A	15.9	C-E
Revere 1627 TC**	RR	TRE	220	A	15.8	C-G
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	213	A	16.0	C-E
Dyna-Gro D55VC80 RIB	RR	VT2P	212	A	16.2	A-C
Progeny PGY 2215 TRE	RR	TRE	209	A	16.6	AB
Trial Average			**231**		**15.6**	
Trial Standard Error			**10**		**0.2**	
Trial L.S.D.$_{.05}$			**N.S.**		**0.5**	
Trial C.V.			**7**		**2**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-18. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)		Moisture at Harvest (%)	
Dekalb DKC 68-35 VT2P*	RR	VT2P	254	A	16.6	A
Revere 1839 TC*	RR	TRE	247	AB	15.1	D
Integra 6915 TRE	RR	TRE	239	A-C	15.2	CD
Innvictis A1993 T	RR	TRE	233	B-D	15.1	D
Innvictis A1792 T	RR	TRE	230	B-D	16.2	AB
Dyna-Gro D58VC74 RIB	RR	VT2P	224	C-E	15.8	BC
Progeny PGY 2118 VT2P	RR	VT2P	220	DE	16.5	A
Progeny PGY 9117 VT2P	RR	VT2P	219	DE	15.6	B-D
Pioneer P17677YHR	RR, LL	YGCB, HX1	209	E	15.8	BC
Trial Average			**231**		**15.8**	
Trial Standard Error			**6**		**0.2**	
Trial L.S.D.$_{.05}$			**18**		**0.6**	
Trial C.V.			**5**		**2**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
ǁ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-19. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)		Moisture at Harvest (%)	
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	241	A	14.6	AB
Innvictis A1292 VT2P	RR	VT2P	239	A	15.1	A
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	231	AB	14.8	AB
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	228	AB	13.3	CD
Revere 113-T4C	RR	CB, VP	227	AB	14.0	BC
Progeny PGY 2010 TRE	RR	TRE	217	BC	12.7	D
Dyna-Gro D53VC54 RIB	RR	VT2P	215	BC	15.3	A
Dyna-Gro D51VC95 RIB	RR	VT2P	213	BC	13.2	CD
Innvictis A1072 VT2P RIB	RR	VT2P	212	BC	12.7	D
Great Heart Seed HT-7360 VT2	RR	VT2P	207	C	15.4	A
Trial Average			**223**		**14.1**	
Trial Standard Error			**8**		**0.3**	
Trial L.S.D.$_{.05}$			**20**		**0.9**	
Trial C.V.			**5**		**4**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
ǁ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-20. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)		Moisture at Harvest (%)	
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	245	A	14.5	F-I
Revere 1627 TC**	RR	TRE	242	AB	15.1	D-G
Progeny PGY2314 TRE*	RR	TRE	239	A-C	14.9	E-H
Dekalb DKC 64-22 VT2P	RR	VT2P	236	A-D	15.6	B-E
Integra 6493 VT2P	RR	VT2P	231	A-E	14.2	IJ
Dyna-Gro D56TC44 RIB	RR	TRE	230	A-F	14.2	H-J
Innvictis A1312 VT2P RIB	RR	VT2P	227	A-F	13.7	JK
Revere 114-P35	RR	CB	224	A-G	15.9	BC
Innvictis A1689 T	RR	TRE	224	A-G	15.2	C-F
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	224	A-G	15.9	BC
Innvictis A1551 VT2P	RR	VT2P	223	A-G	13.3	K
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	223	A-G	14.4	G-J
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	222	B-G	15.2	C-F
Innvictis A1542 T	RR	TRE	220	C-G	14.2	IJ
Dekalb DKC 66-06 TRE*	RR	TRE	217	D-G	15.7	B-D
Progeny PGY 9114 VT2P	RR	VT2P	214	E-G	14.2	H-J
Dyna-Gro D55VC80 RIB	RR	VT2P	213	E-G	15.7	B-D
Progeny PGY 2215 TRE	RR	TRE	211	E-G	16.8	A
Dekalb DKC 65-95 VT2P	RR	VT2P	208	FG	16.0	B
Great Heart Seed HT-7500 TRE	RR	TRE	204	G	16.0	B
Dyna-Gro D54VC34 RIB	RR	VT2P	203	G	14.2	IJ
Trial Average			**223**		**15.0**	
Trial Standard Error			**8**		**0.3**	
Trial L.S.D.$_{.05}$			**22**		**0.8**	
Trial C.V.			**6**		**3**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-21. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials without irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)		Moisture at Harvest (%)	
Revere 1839 TC*	RR	TRE	233	A	14.0	E
Dekalb DKC 68-35 VT2P*	RR	VT2P	230	A	15.0	B-D
Integra 6915 TRE	RR	TRE	228	A	14.2	DE
Innvictis A1993 T	RR	TRE	227	A	14.3	C-E
Innvictis A1792 T	RR	TRE	224	AB	14.9	B-E
Dyna-Gro D58VC74 RIB	RR	VT2P	222	AB	15.2	BC
Progeny PGY 9117 VT2P	RR	VT2P	220	A-C	15.3	AB
Progeny PGY 2118 VT2P	RR	VT2P	209	BC	16.2	A
Pioneer P17677YHR	RR, LL	YGCB, HX1	203	C	15.0	B-D
Trial Average			**222**		**14.9**	
Trial Standard Error			**7**		**0.3**	
Trial L.S.D.$_{.05}$			**18**		**0.9**	
Trial C.V.			**5**		**4**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
ǁ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-22. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the West Tennessee AgResearch and Education Center in Jackson, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡		Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	C24003	237 A	17.4 A	60 A	89 A	37 BC	0.0
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	C24015	236 A	17.6 A	59 A	92 A	40 A-C	0.0
Dyna-Gro D51VC95 RIB	RR	VT2P	C24005	232 A	14.3 A	57 A	88 A	35 C	0.0
Dyna-Gro D53VC54 RIB	RR	VT2P	C23014	232 A	16.5 A	59 A	95 A	45 A	0.0
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	C24016	230 A	16.4 A	58 A	100 A	46 A	0.0
Revere 113-T4C	RR	CB, VP	C24019	228 A	16.0 A	59 A	91 A	42 AB	0.0
Innvictis A1292 VT2P	RR	VT2P	C23005	228 A	14.0 A	56 A	94 A	41 A-C	0.0
Innvictis A1072 VT2P RIB	RR	VT2P	C24009	220 A	16.3 A	58 A	98 A	47 A	0.0
Progeny PGY 2010 TRE	RR	TRE	C20015	216 A	16.7 A	58 A	92 A	42 A-C	0.0
Great Heart Seed HT-7360 VT2	RR	VT2P	C24007	214 A	16.4 A	59 A	98 A	43 AB	0.0
Trial Average				**227**	**16.1**	**58**	**94**	**42**	**0.0**
Trial Standard Error				**9**	**0.9**	**1**	**4**	**2**	**0.0**
Trial L.S.D.$_{.05}$				**N.S.**	**N.S.**	**N.S.**	**N.S.**	**7**	**.**
Trial C.V.				**7**	**9**	**2**	**7**	**9**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-23. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the West Tennessee AgResearch and Education Center in Jackson, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Great Heart Seed HT-7500 TRE	RR	TRE	234 A	17.6 A	59 D-F	100 A	47 A	0.0
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	234 A	14.7 GH	58 E-G	95 A	46 A	0.0
Dekalb DKC 66-06 TRE*	RR	TRE	232 A	16.1 B-F	59 D-F	96 A	40 A	0.0
Revere 1627 TC**	RR	TRE	229 A	16.8 A-C	59 C-F	99 A	44 A	0.0
Revere 114-P35	RR	CB	227 A	14.9 F-H	58 FG	97 A	45 A	0.0
Progeny PGY2314 TRE*	RR	TRE	225 A	15.0 E-H	59 C-F	93 A	37 A	0.0
Progeny PGY 9114 VT2P	RR	VT2P	224 A	15.5 D-H	60 BC	92 A	38 A	0.0
Innvictis A1689 T	RR	TRE	223 A	16.1 B-F	61 A	95 A	42 A	0.0
Progeny PGY 2215 TRE	RR	TRE	223 A	16.4 A-D	60 B-D	98 A	42 A	0.0
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	221 A	17.0 AB	59 C-F	94 A	41 A	0.0
Dyna-Gro D54VC34 RIB	RR	VT2P	220 A	15.7 C-G	60 BC	98 A	42 A	0.0
Innvictis A1312 VT2P RIB	RR	VT2P	220 A	14.3 HI	56 H	96 A	41 A	0.0
Dekalb DKC 64-22 VT2P	RR	VT2P	210 A	15.7 C-G	61 AB	92 A	40 A	0.0
Dyna-Gro D56TC44 RIB	RR	TRE	207 A	15.7 C-G	59 C-F	94 A	41 A	0.0
Dekalb DKC 65-95 VT2P	RR	VT2P	205 A	15.1 D-H	59 CD	91 A	42 A	0.0
Innvictis A1551 VT2P	RR	VT2P	205 A	13.1 I	58 G	91 A	38 A	0.0
Integra 6493 VT2P	RR	VT2P	204 A	14.9 E-H	59 CD	91 A	38 A	0.0
Dyna-Gro D55VC80 RIB	RR	VT2P	196 A	16.8 A-C	59 CD	95 A	44 A	0.0
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	196 A	15.5 C-G	57 G	95 A	40 A	0.0
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	193 A	16.2 B-E	59 C-E	92 A	46 A	0.0
Innvictis A1542 T	RR	TRE	177 A	15.1 E-H	59 C-F	90 A	39 A	0.0
Trial Average			**214**	**15.6**	**59**	**94**	**41**	**0.0**
Trial Standard Error			**15**	**0.5**	**0**	**4**	**3**	**0.0**
Trial L.S.D.$_{.05}$			**N.S.**	**1.3**	**1**	**N.S.**	**N.S.**	**.**
Trial C.V.			**11**	**5**	**1**	**6**	**11**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-24. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at the West Tennessee AgResearch and Education Center in Jackson, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)	Plant Height (in.)	Ear Height (in.)	Lodging¶ (%)
Revere 1839 TC*	RR	TRE	215 A	15.1 A	59 CD	86 A	43 A	0.0
Dyna-Gro D58VC74 RIB	RR	VT2P	213 A	16.6 A	61 AB	91 A	38 A	0.0
Innvictis A1993 T	RR	TRE	204 A	14.2 A	58 D	94 A	50 A	0.0
Integra 6915 TRE	RR	TRE	197 A	16.0 A	60 A-C	90 A	48 A	0.0
Progeny PGY 9117 VT2P	RR	VT2P	192 A	16.1 A	59 CD	92 A	38 A	0.0
Dekalb DKC 68-35 VT2P*	RR	VT2P	186 A	16.1 A	60 B-D	79 A	34 A	0.0
Innvictis A1792 T	RR	TRE	182 A	16.7 A	61 A	86 A	40 A	0.0
Progeny PGY 2118 VT2P	RR	VT2P	174 A	16.2 A	61 AB	82 A	39 A	0.0
Pioneer P17677YHR	RR, LL	YGCB, HX1	155 A	15.7 A	60 A-C	89 A	40 A	0.0
Trial Average			**191**	**15.8**	**60**	**88**	**41**	**0.0**
Trial Standard Error			**27**	**0.7**	**1**	**10**	**5**	**0.0**
Trial L.S.D.$_{.05}$			**N.S.**	**N.S.**	**2**	**N.S.**	**N.S.**	**.**
Trial C.V.			**12**	**8**	**2**	**9**	**15**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-25. Mean yield and agronomic traits of 10 early-season (<114 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at AgriCenter International in Memphis, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)
Great Heart Seed HT-7360 VT2	RR	VT2P	204 A	14.0 A	55 A
Dekalb DKC 111-35 VT2P RIB	RR	VT2P	185 A	14.3 A	53 A
Innvictis A1292 VT2P	RR	VT2P	181 A	14.3 A	54 A
Revere 113-T4C	RR	CB, VP	179 A	14.7 A	53 A
Dyna-Gro D51VC95 RIB	RR	VT2P	178 A	13.6 A	52 A
Innvictis A1072 VT2P RIB	RR	VT2P	155 A	13.7 A	57 A
Dyna-Gro D53VC54 RIB	RR	VT2P	152 A	13.7 A	56 A
Progeny PGY 2010 TRE	RR	TRE	150 A	14.0 A	57 A
Pioneer P13841PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	147 A	13.2 A	53 A
Pioneer P13777PWUE	RR, LL, ENL, FOP	AVBL, VT2P, HX1	145 A	14.7 A	56 A
Trial Average			**168**	**14.0**	**54**
Trial Standard Error			**15**	**0.6**	**2**
Trial L.S.D.$_{.05}$			**N.S.**	**N.S.**	**N.S.**
Trial C.V.			**16**	**7**	**5**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
ǁ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-26. Mean yield and agronomic traits of 21 medium-season (114-116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at AgriCenter International in Memphis, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)		Moisture at Harvest (%)		Test Weight (lbs/bu)	
Great Heart Seed HT-7500 TRE	RR	TRE	205	A	14.7	A	50	A
Innvictis A1542 T	RR	TRE	200	AB	14.9	A	56	A
Innvictis A1312 VT2P RIB	RR	VT2P	194	A-C	14.4	A	53	A
Dekalb DKC 64-22 VT2P	RR	VT2P	192	A-C	15.1	A	54	A
Revere 114-P35	RR	CB	189	A-D	15.0	A	50	A
Pioneer P14830VYHR	RR, LL	AVBL, YGCB, HX1	178	A-E	15.8	A	53	A
Progeny PGY2314 TRE*	RR	TRE	178	A-E	15.0	A	54	A
Progeny PGY 2215 TRE	RR	TRE	174	A-E	15.0	A	54	A
Dyna-Gro D55VC80 RIB	RR	VT2P	173	B-E	15.4	A	54	A
Dyna-Gro D54VC34 RIB	RR	VT2P	172	B-E	14.2	A	54	A
Dekalb DKC 65-95 VT2P	RR	VT2P	169	B-E	13.9	A	54	A
Dekalb DKC 66-06 TRE*	RR	TRE	169	B-E	15.7	A	56	A
1st Choice Seeds FC8420 VT2 RIB	RR	VT2P	166	C-E	15.3	A	53	A
Revere 1627 TC**	RR	TRE	164	C-E	14.6	A	55	A
1st Choice Seeds FC 8437 PC	RR, LL, ENL, FOP	PC	164	C-E	15.0	A	53	A
Innvictis A1689 T	RR	TRE	162	C-E	14.3	A	56	A
1st Choice Seeds FC 8455 VT2P RIB	RR	VT2P	158	DE	15.4	A	53	A
Innvictis A1551 VT2P	RR	VT2P	157	E	14.5	A	55	A
Integra 6493 VT2P	RR	VT2P	153	E	15.0	A	56	A
Dyna-Gro D56TC44 RIB	RR	TRE	153	E	15.7	A	54	A
Progeny PGY 9114 VT2P	RR	VT2P	151	E	15.0	A	54	A
Trial Average			**172**		**15.0**		**54**	
Trial Standard Error			**12**		**0.5**		**2**	
Trial L.S.D.$_{.05}$			**32**		**N.S.**		**N.S.**	
Trial C.V.			**11**		**6**		**6**	

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

Table A-27. Mean yield and agronomic traits of nine full-season (>116 DAP) corn hybrids evaluated in small plot replicated trials with irrigation at AgriCenter International in Memphis, Tennessee during 2024.

Hybrid†	Herbicide Pkg‡	Insect Pkg. ‡	Avg. Yield§ (bu/ac)	Moisture at Harvest (%)	Test Weight (lbs/bu)
Progeny PGY 9117 VT2P	RR	VT2P	179 A	14.5 A	52 A
Revere 1839 TC*	RR	TRE	171 A	14.6 A	56 A
Integra 6915 TRE	RR	TRE	165 A	14.2 A	55 A
Innvictis A1993 T	RR	TRE	157 A	13.9 A	54 A
Innvictis A1792 T	RR	TRE	155 A	14.9 A	54 A
Dekalb DKC 68-35 VT2P*	RR	VT2P	151 A	14.2 A	54 A
Dyna-Gro D58VC74 RIB	RR	VT2P	145 A	15.4 A	55 A
Progeny PGY 2118 VT2P	RR	VT2P	140 A	14.1 A	55 A
Pioneer P17677YHR	RR, LL	YGCB, HX1	136 A	14.9 A	54 A
Trial Average			**155**	**14.5**	**54**
Trial Standard Error			**15**	**0.4**	**1**
Trial L.S.D.$_{.05}$			**N.S.**	**N.S.**	**N.S.**
Trial C.V.			**11**	**4**	**3**

† Hybrids that have any MS letter in common are not significantly different at the 5% level of probability.
* Asterisks after a hybrid name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 18.
§ All yields are adjusted to 15.5% moisture.
‖ Protein, Oil, and Starch on a dry weight basis.
Values highlighted in orange are above average, values highted in dark orange are in the upper 25%. MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.

UTIA.TENNESSEE.EDU

Real. Life. Solutions.™

PB 1887 11/23 24-0049 Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development. University of Tennesse Institute of Agriculture, U.S. Department of Agriculture and County governments cooperating. UT Extension provides equal opportunities in programs and employment.