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Georgia

2017 Corn Performance Tests

Daniel J. Mailhot, Dustin Dunn,
Henry Jordan, Jr., and J. LaDon Day,
Editors

Conversion Table

U.S. *Abbr.*	*Unit*	*Approximate Metric Equivalent*
	Length	
mi	mile	1.609 kilometers
yd	yard	0.9144 meters
ft *or* '	foot	30.48 centimeters
in *or* "	inch	2.54 centimeters
	Area	
sq mi *or* mi^2	square mile	2.59 square kilometers
acre	acre	0.405 hectares *or* 4047 square meters
sq ft *or* ft^2	square foot	0.093 square meters
	Volume/Capacity	
gal	gallon	3.785 liters
qt	quart	0.946 liters
pt	pint	0.473 liters
fl oz	fluid ounce	29.573 milliliters or 28.416 cubic centimeters
bu	bushel	35.238 liters
cu ft *or* ft^3	cubic foot	0.028 cubic meters
	Mass/Weight	
ton	ton	0.907 metric ton
lb	pound	0.453 kilogram
oz	ounce	28.349 grams

Metric *Abbr.*	*Unit*	*Approximate U.S. Equivalent*
	Length	
km	kilometer	0.62 mile
m	meter	39.37 inches *or* 1.09 yards
cm	centimeter	0.39 inch
mm	millimeter	0.04 inch
	Area	
ha	hectare	2.47 acres
	Volume/Capacity	
liter	liter	61.02 cubic inches *or* 1.057 quarts
ml	milliliter	0.06 cubic inch *or* 0.034 fluid ounce
cc	cubic centimeter	0.061 cubic inch *or* 0.035 fluid ounce
	Mass/Weight	
MT	metric ton	1.1 tons
kg	kilogram	2.205 pounds
g	gram	0.035 ounce
mg	milligram	3.5×10^{-5} ounce

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PREFACE

This research report presents the results of the 2017 corn performance trials. Corn performance trials were conducted at six locations throughout Georgia (see map inside back cover) in 2017. Short-season and mid-season hybrids were planted at Tifton, Plains, and Midville in the Coastal Plain region, at Athens in the Piedmont region, at Calhoun in the Limestone Valley region, and at Blairsville in the Mountain region. Hybrids used for silage were evaluated at Tifton, Athens, Calhoun, and Blairsville.

At each site, all plots within a maturity group were seeded at the rates specified and not thinned, and the populations at harvest are included in the tables. Information concerning fertilization and cultural practices used in each trial is included with the tables. Grain harvesting was done with a plot combine, and yields were adjusted to 15.5% moisture. Silage harvest was conducted using a small silage chopper and weighed by hand. Yields are expressed in English tons (2,000 pounds). Since data averaged over several years indicate a hybrid's yield potential better than data from only a single year, average yields over several years are included in this report.

The least significant difference (LSD) at the 10% level has been included in the tables to aid in comparing hybrids. If the yields' difference of any two hybrids exceeds the LSD value, they can be considered different in yield ability. **Bolding** is used in the performance tables to indicate hybrids with yields statistically equal to the highest yielding entry in the test. The standard error (Std. Err.) of an entry mean is included at the bottom of each table to provide a general indicator of the level of precision of each experiment. The lower the value of the standard error of the entry mean, the more precise the experiment.

Producers of hybrid seed corn are invited to enter their hybrids in the Georgia performance trials. Most hybrids entered are commercially available in Georgia, but a few experimental hybrids are also entered. Entry of a hybrid in these trials does not imply endorsement or recommendation by the University of Georgia College of Agricultural and Environmental Sciences.

This report is one of five publications presenting the performance of agronomic crops in Georgia. For information concerning the performance of other crops, refer to one of the following research reports: 2016-2017 Small Grain Performance Tests (Annual Publication 100-9); the 2016 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication 103-8); the 2016 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication 104-8), and the 2013-2014 Canola Performance data (www.swvt.uga.edu/canola.html).

This report, along with performance test information on other crops, is also available online at **www.swvt.uga.edu**. Additional information may be obtained by writing to Dr. Daniel J. Mailhot, Crop and Soil Sciences Department, University of Georgia, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.

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The Season

The 2017 planting season began in April with warmer-than-usual temperatures, similar to the previous 3 years. Rainfall contributed to planting delays in the northern portion of the state, while drier-than-average conditions had the same effect on non-irrigated fields in south Georgia. Warmer-than-average temperatures extended into May, but rainfall was adequate. June was cooler than average and remained moist. In July, warmer and drier weather returned, but August was near normal. Southern rust was present throughout most of the state and all of the variety tests by late July.

Seasonal rainfall totals are shown in the table below.

Growing Season Rainfall[1], 2017

Month	Athens[2]	Blairsville	Calhoun[3]	Midville	Plains	Tifton
	inches					
February	2.05	2.84	3.73	1.68	2.97	1.56
March	2.45	5.09	4.58	1.37	1.44	1.49
April	5.97	5.45	6.29	4.21	4.68	3.80
May	5.34	7.10	5.96	4.35	6.26	2.65
June	9.10	6.71	6.20	7.90	8.02	5.11
July	3.80	3.99	3.40	5.42	4.57	4.87
August	6.20	4.14	3.06	4.15	3.14	4.47
September	4.15	4.76	5.38	6.48	5.30	3.72
Total (8 mo)	39.06	40.08	38.60	35.56	36.38	27.67
Normal (8 mo)	34.34	38.50	38.37	30.65	33.69	32.15

1. Data submitted by Dr. I. Flitcroft, UGA-Griffin, Griffin, Ga.
2. Iron Horse Plant Science Farm.
3. Floyd County location.

Total corn plantings in Georgia were down by 10% compared to 2016 but similar to the previous 4 years. Grain-harvested acres were similar to last year, and official numbers for silage acres and yield are not available. The statewide grain yield of 184 bushels/acre exceeded the previous record of 180 bushels/acre, set in 2012. The table on the following page provides 2013-to-2017 comparisons of planted and harvested acres. Favorable growing conditions especially benefitted non-irrigated acreage.

Daniel J. Mailhot is the program director of the statewide variety testing program, Henry Jordan Jr. is a research professional III, and J. LaDon Day is a research scientist in the Crop and Soil Sciences Department, UGA-Griffin, Griffin, Georgia 30223-1797. Dustin G. Dunn is a research professional III in the Crop and Soil Sciences Department, UGA-Tifton, Tifton, Georgia 31793-5766.

Georgia Corn Crop by Year[1]

	2013	2014	2015	2016	2017
Total planted acres	510,000	350,000	330,000	410,000	370,000
Grain harvested acres	465,000	310,000	285,000	340,000	320,000
Yield (bu/ac)	175	170	171	165	184
Silage harvested acres	35,000	35,000	40,000	40,000	-
Yield (tons/ac)	20	20	22	19	-

1. Data obtained from National Agricultural Statistics Service.

Grain Tests Results

Coastal Plain Region

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2017

Company or Brand Name	Variety	Yield					
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	Irrigated Average
		bu/acre					
Short-Season							
Terral Seed	REV®23BHR55™ Brand	**265.3**	**220.2**	**299.0**	**268.2**	**273.8**	**280.3**
Terral Seed	REV®25BHR26™ Brand	**257.2**	**217.8**	**286.0**	**255.5**	**269.6**	270.3
Augusta Seed	5065GTCBLL	252.9	**229.6**	282.6	236.7	**262.6**	260.6
Augusta Seed	1165VT2PRO	238.1	**205.2**	256.9	249.1	241.1	249.0
T. A. Seeds	TA744-22DP	237.7	**210.2**	265.2	244.6	230.8	246.9
Croplan Genetics	6640 VT3P	234.3	**207.1**	258.1	244.1	227.9	243.4
DeKalb	DKC64-35 VT2P	229.2	183.3	264.8	239.5	229.1	244.5
AgriGold	A6572STX	229.1	201.8	264.4	224.8	225.3	238.2
Armor	1414	228.9	186.5	273.8	215.7	239.6	243.0
MorCorn	MC4319	227.4	**195.6**	257.8	214.0	242.5	238.1
Dyna-Gro	D55VC45	225.6	185.4	231.7	243.4	241.8	239.0
DeKalb	DKC 65-94 STX	225.0	181.6	259.1	224.0	235.0	239.4
AgriGold	A6499STX	220.8	186.4	241.4	218.5	236.8	232.2
Augusta Seed	6664VT2PRO	219.2	186.9	242.8	235.5	211.4	229.9
Augusta Seed	1564GT3000	218.0	199.0	232.6	212.7	227.7	224.3
Armor	1500	216.6	196.1	230.1	215.6	224.4	223.4
AgraTech	65 VT2P	214.9	182.5	248.3	215.9	212.9	225.7
Syngenta	N76A-3010	206.6	175.4	227.2	204.3	219.4	217.0
Average		230.4	197.2	256.8	231.2	236.2	241.4
LSD at 10% Level		9.0	26.6	13.3	15.8	14.2	8.2
Std. Err. of Entry Mean		3.9	11.2	5.6	6.6	6.0	3.5

Coastal Plain Region of Georgia:
Summary of Corn Hybrid Performance, 2017 (Continued)

Company or Brand Name	Variety	Yield					
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	Irrigated Average
		bu/acre					
Mid-Season							
Terral Seed	REV®28BHR18™ Brand	**259.1**	**219.7**	**287.3**	**274.1**	**255.1**	**272.2**
AgriGold	A6659VT2PRO	**253.5**	**223.4**	269.4	**266.6**	**254.7**	**263.6**
Dyna-Gro	D57VP51	247.3	**208.2**	**281.1**	251.2	**248.8**	260.4
MorCorn	MC4725	247.1	**211.2**	**291.4**	249.0	237.0	259.1
Terral Seed	REV®26BHR50™ Brand	246.6	**208.4**	**280.7**	246.9	**250.4**	259.3
DeKalb	DKC70-27 VT2P	244.6	195.8	274.9	**253.3**	**254.5**	260.9
AgraTech	85 VT2P	243.6	**208.1**	267.7	238.5	**260.2**	255.5
Pioneer	P1870YHR	243.2	**216.2**	273.5	**255.1**	228.2	252.3
Syngenta	N83D-3111	241.0	**209.6**	260.8	233.1	**260.5**	251.5
Croplan Genetics	5678 VT2P	240.9	202.0	266.5	**262.8**	232.4	253.9
DeKalb	DKC67-44 VT2P	240.5	**222.2**	264.7	240.9	234.4	246.6
Dyna-Gro	D58VC65	240.3	**214.6**	252.0	**258.1**	236.7	248.9
AgriGold	A6711VT2PRO	240.3	202.2	**283.4**	**259.7**	215.7	252.9
Dyna-Gro	D58VC37	235.0	176.1	**284.0**	249.7	230.5	254.7
AgraTech	1778	233.9	**202.8**	257.0	231.9	243.8	244.2
Pioneer	P1662YHR	233.6	**202.7**	256.4	230.6	244.6	243.9
Phoenix	7402	233.5	202.2	247.9	235.0	**248.8**	243.9
Armor	1717	232.3	201.1	263.1	240.0	225.0	242.7
Pioneer	P1916YHR	230.9	**213.4**	239.7	240.0	230.6	236.7
T. A. Seeds	TA774-22DPRIB	230.8	200.2	241.1	241.4	240.6	241.1
T. A. Seeds	TA765-30	230.1	196.6	259.4	230.9	233.7	241.3
Phoenix	6542	223.9	188.1	275.1	210.8	221.8	235.9
Augusta Seed	A7767VT2PRO	223.2	**211.0**	229.6	221.1	230.9	227.2
T. A. Seeds	TA787-18	222.2	188.1	247.7	223.6	229.3	233.5
Augusta Seed	A7766VT2PRO	221.8	189.1	224.6	231.0	242.5	232.7
Syngenta	N78S-3111	219.6	193.9	266.7	187.8	230.3	228.2
Average		236.9	204.1	263.3	240.9	239.3	247.8
LSD at 10% Level		9.0	20.9	12.3	22.2	15.8	9.9
Std. Err. of Entry Mean		3.9	8.9	5.2	9.4	6.7	4.2

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Tifton, Georgia:
Short-Season Corn Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Augusta Seed	5065GTCBLL	**229.6**	.	.	99	0.50	1.0	19.1	26898	100
Terral Seed	REV®23BHR55™ Brand	**220.2**	**177.2**	**157.6**	100	0.47	2.0	17.1	26354	100
Terral Seed	REV®25BHR26™ Brand	**217.8**	**177.2**	**157.8**	99	0.47	2.0	17.3	26680	100
T. A. Seeds	TA744-22DP	**210.2**	**168.0**	.	101	0.44	1.0	16.6	27007	100
Croplan Genetics	6640 VT3P	**207.1**	**184.0**	**166.6**	100	0.45	2.0	17.1	26245	100
Augusta Seed	1165VT2PRO	**205.2**	.	.	100	0.44	3.0	17.6	27116	100
AgriGold	A6572STX	201.8	.	.	101	0.42	1.0	17.1	27007	100
Augusta Seed	1564GT3000	199.0	.	.	103	0.43	2.0	17.2	26027	100
Armor	1500	196.1	.	.	99	0.41	2.0	17.5	27552	100
MorCorn	MC4319	195.6	.	.	99	0.40	2.0	17.5	28205	100
Augusta Seed	6664VT2PRO	186.9	.	.	98	0.41	2.0	17.3	26354	100
Armor	1414	186.5	.	.	101	0.42	3.0	17.8	25483	100
AgriGold	A6499STX	186.4	.	.	98	0.41	3.0	18.0	26681	100
Dyna-Gro	D55VC45	185.4	.	.	102	0.40	2.0	17.2	26136	100
DeKalb	DKC64-35 VT2P	183.3	**147.6**	.	100	0.37	1.0	17.2	27987	100
AgraTech	65 VT2P	182.5	.	.	99	0.40	3.0	16.1	26245	100
DeKalb	DKC 65-94 STX	181.6	.	.	101	0.40	3.0	17.8	26136	100
Syngenta	N76A-3010	175.4	**156.8**	.	99	0.38	3.0	17.3	26463	100
Average		197.2[4]	168.5	160.7	100	0.42	2.1	17.4	26699	100
LSD at 10% Level		26.6	NS[5]	NS	NS	0.06	-	0.9	NS	NS
Std. Err. of Entry Mean		11.2	6.0	5.6	1	0.02	-	0.4	597	0

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 11.4%, and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: March 28, 2017.
Harvested: August 16, 2017.
Seeding Rate: 28,500 seeds per acre in 30-inch rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Low, K = Medium, and pH = 6.0.
Fertilization: 28 lb N, 55 lb P_2O_5, and 82 lb K_2O/acre as preplant; 10 gal 10-34-0-10/acre (2x2 inch offset); 130 lb N/acre as sidedress.
Previous Crop: Fallow.
Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, and Warrant used for weed control; Telone II used for nematode control.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
AgriGold	A6659VT2PRO	**223.4**	.	.	103	0.47	2.0	16.6	26463	100
DeKalb	DKC67-44 VT2P	**222.2**	**185.4**	.	100	0.46	2.0	16.2	27552	100
Terral Seed	REV®28BHR18™ Brand	**219.7**	.	.	101	0.5	2.0	16.6	24829	100
Pioneer	P1870YHR	**216.2**	.	.	100	0.46	2.0	17.9	27116	100
Dyna-Gro	D58VC65	**214.6**	.	.	99	0.45	3.0	15.9	26790	100
Pioneer	P1916YHR	**213.4**	**177.7**	**167.2**	100	0.48	3.0	17.9	25374	100
MorCorn	MC4725	**211.2**	.	.	100	0.44	1.0	16.4	26898	100
Augusta Seed	A7767VT2PRO	**211.0**	**182.2**	.	100	0.45	3.0	16.9	27116	100
Syngenta	N83D-3111	**209.6**	.	.	100	0.44	3.0	16.5	26790	100
Terral Seed	REV®26BHR50™ Brand	**208.4**	**175.5**	**163.4**	101	0.44	1.0	17.7	26790	100
Dyna-Gro	D57VP51	**208.2**	**192.5**	**186.5**	100	0.46	1.0	16.5	25701	100
AgraTech	85 VT2P	**208.1**	.	.	101	0.46	1.0	16.7	25592	100
AgraTech	1778	**202.8**	.	.	100	0.43	1.0	17.5	27007	100
Pioneer	P1662YHR	**202.7**	.	.	100	0.43	2.0	16.8	26898	100
Phoenix	7402	202.2	.	.	100	0.44	2.0	17.2	26463	100
AgriGold	A6711VT2PRO	202.2	.	.	100	0.45	2.0	16.5	25701	100
Croplan Genetics	5678 VT2P	202.0	**185.3**	.	98	0.44	2.0	16.3	26245	100
Armor	1717	201.1	.	.	100	0.44	2.0	16.8	26136	100
T. A. Seeds	TA774-22DPRIB	200.2	.	.	100	0.43	3.0	16.3	26681	100
T. A. Seeds	TA765-30	196.6	.	.	100	0.44	1.0	16.6	25592	100
DeKalb	DKC70-27 VT2P	195.8	**184.0**	.	101	0.41	2.0	17.1	27334	100
Syngenta	N78S-3111	193.9	.	.	101	0.42	2.0	17.3	26354	100
Augusta Seed	A7766VT2PRO	189.1	**177.3**	.	99	0.4	4.0	16.9	27443	100
Phoenix	6542	188.1	.	.	101	0.42	3.0	17.4	25701	100
T. A. Seeds	TA787-18	188.1	.	.	99	0.41	3.0	16.8	26136	100
Dyna-Gro	D58VC37	176.1	**164.4**	**166.3**	100	0.36	2.0	17.1	27987	100
Average		204.1[4]	180.5	170.9	100	0.44	2.1	16.8	26488	100
LSD at 10% Level		20.9	NS[5]	NS	NS	0.05	-	0.6	1097	NS
Std. Err. of Entry Mean		8.9	6.4	5.0	1	0.02	-	0.2	466	0

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Nonirrigated
(Continued)

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.7%, and df for EMS = 75.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	March 28, 2017.
Harvested:	August 16, 2017.
Seeding Rate:	28,000 seeds per acre in 30-inch rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = Low, K = Medium, and pH = 6.0.
Fertilization:	28 lb N, 55 lb P_2O_5, and 82 lb K_2O/acre as preplant; 10 gal 10-34-0-10/acre (2x2 inch offset); 130 lb N/acre as sidedress.
Previous Crop:	Fallow.
Management:	Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, and Warrant used for weed control; Telone II used for nematode control.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Tifton, Georgia:
Short-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®23BHR55™ Brand	**299.0**	**305.7**	**303.4**	101	0.47	2.0	16.2	35610	98
Terral Seed	REV®25BHR26™ Brand	**286.0**	**293.2**	**287.8**	101	0.47	1.5	16.0	34086	100
Augusta Seed	5065GTCBLL	282.6	.	.	100	0.47	1.0	17.5	34303	99
Armor	1414	273.8	.	.	100	0.45	3.0	16.0	34739	99
T. A. Seeds	TA744-22DP	265.2	**278.9**	.	99	0.45	1.5	16.6	33759	99
DeKalb	DKC64-35 VT2P	264.8	**268.2**	.	100	0.42	1.5	16.1	35937	100
AgriGold	A6572STX	264.4	.	.	101	0.41	1.0	16.5	36155	100
DeKalb	DKC 65-94 STX	259.1	.	.	100	0.40	1.5	16.4	36699	100
Croplan Genetics	6640 VT3P	258.1	**287.8**	**284.9**	99	0.41	1.5	15.6	35284	100
MorCorn	MC4319	257.8	.	.	100	0.42	1.5	16.5	34522	100
Augusta Seed	1165VT2PRO	256.9	.	.	100	0.42	2.5	17.1	35066	99
AgraTech	65 VT2P	248.3	.	.	98	0.43	2.0	16.1	33106	100
Augusta Seed	6664VT2PRO	242.8	.	.	100	0.40	2.0	16.2	34304	100
AgriGold	A6499STX	241.4	.	.	100	0.42	2.0	16.9	32561	100
Augusta Seed	1564GT3000	232.6	.	.	100	0.38	3.0	16.5	35066	99
Dyna-Gro	D55VC45	231.7	.	.	101	0.37	2.0	16.0	35175	100
Armor	1500	230.1	.	.	90	0.45	1.5	17.3	32670	100
Syngenta	N76A-3010	227.2	**262.4**	.	102	0.37	3.0	16.5	33977	96
Average		256.8[4]	282.7	292.0	99	0.42	1.9	16.4	34612	99
LSD at 10% Level		13.3	NS[5]	NS	2	0.03	0.4	0.7	1242	2
Std. Err. of Entry Mean		5.6	5.6	5.6	1	0.01	0.2	0.3	524	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 4.4%, and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: March 28, 2017.
Harvested: August 17, 2017.
Seeding Rate: 37,000 seeds per acre in 30-inch rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Medium, K = Medium, and pH = 6.2.
Fertilization: 125 lb N, 185 lb P_2O_5, and 310 lb K_2O/acre as preplant; 10 gal 10-34-0-10/acre (2x2 inch offset); 260 lb N/acre as sidedress.
Previous Crop: Peanuts.
Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, and Warrant used for weed control; Telone II used for nematode control; irrigated 17.5 inches.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
MorCorn	MC4725	**291.4**	.	.	100	0.46	1.5	17.8	36591	97
Terral Seed	REV®28BHR18™ Brand	**287.3**	.	.	100	0.51	2.0	17.7	32234	100
Dyna-Gro	D58VC37	**284.0**	**289.4**	**291.8**	100	0.46	1.5	18.1	35828	98
AgriGold	A6711VT2PRO	**283.4**	.	.	100	0.46	1.5	18.0	35175	99
Dyna-Gro	D57VP51	**281.1**	**304.3**	**305.2**	96	0.45	2.0	17.4	37026	100
Terral Seed	REV®26BHR50™ Brand	**280.7**	**305.5**	**298.8**	101	0.46	1.5	18.0	35066	78
Phoenix	6542	275.1	.	.	100	0.46	2.0	18.1	34630	97
DeKalb	DKC70-27 VT2P	274.9	**288.3**	.	100	0.45	2.0	18.0	35501	100
Pioneer	P1870YHR	273.5	.	.	101	0.45	2.0	18.3	34957	100
AgriGold	A6659VT2PRO	269.4	.	.	100	0.45	2.0	17.8	34413	99
AgraTech	85 VT2P	267.7	.	.	102	0.44	1.0	18.1	34413	100
Syngenta	N78S-3111	266.7	.	.	100	0.46	2.5	18.2	33541	99
Croplan Genetics	5678 VT2P	266.5	**284.2**	.	100	0.43	1.5	17.2	35611	98
DeKalb	DKC67-44 VT2P	264.7	**262.6**	.	100	0.41	2.0	16.6	36808	100
Armor	1717	263.1	.	.	99	0.46	1.5	17.8	33106	98
Syngenta	N83D-3111	260.8	.	.	100	0.43	2.5	18.4	35502	99
T. A. Seeds	TA765-30	259.4	.	.	99	0.41	2.0	16.8	36482	97
AgraTech	1778	257.0	.	.	101	0.43	2.0	17.9	33759	100
Pioneer	P1662YHR	256.4	.	.	100	0.44	2.5	18.1	34086	100
Dyna-Gro	D58VC65	252.0	.	.	100	0.41	2.5	16.7	34739	98
Phoenix	7402	247.9	.	.	99	0.40	2.0	18.7	36046	100
T. A. Seeds	TA787-18	247.7	.	.	100	0.41	2.0	18.0	35284	99
T. A. Seeds	TA774-22DPRIB	241.1	.	.	100	0.42	2.0	17.9	33215	100
Pioneer	P1916YHR	239.7	**260.1**	266.8	102	0.43	1.5	18.2	31908	100
Augusta Seed	A7767VT2PRO	229.6	**269.5**	.	100	0.38	2.0	17.3	35175	100
Augusta Seed	A7766VT2PRO	224.6	**268.9**	.	99	0.37	3.5	17.0	35175	100
Average		263.3[4]	281.4	290.7	100	0.44	2.0	17.8	34856	98
LSD at 10% Level		12.3	NS[5]	13.7	2	0.02	0.4	0.5	1365	6
Std. Err. of Entry Mean		5.2	6.7	9.8	1	0.01	0.2	0.2	580	2

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated
(Continued)

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 4.0%, and df for EMS = 75.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	March 28, 2017.
Harvested:	August 17, 2017.
Seeding Rate:	37,000 seeds per acre in 30-inch rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = Medium, K = Medium, and pH = 6.2.
Fertilization:	125 lb N, 185 lb P_2O_5, and 310 lb K_2O/acre as preplant; 10 gal 10-34-0-10/acre (2x2 inch offset); 260 lb N/acre as sidedress.
Previous Crop:	Peanuts.
Management:	Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, and Warrant used for weed control; Telone II used for nematode control; irrigated 17.5 inches.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Tifton, Georgia:
Preliminary Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®26BHR50™ Brand	**295.4**	.	.	100	0.48	1.5	17.4	35610	89
Armor	AXC7115	**292.5**	.	.	102	0.45	2.0	17.2	36808	100
T. A. Seeds	X20543	**284.7**	.	.	102	0.44	1.5	17.2	36591	100
AgraTech	908VIP	274.8	**262.6**	.	100	0.45	1.5	16.8	34630	96
Dyna-Gro	D50VC30	271.7	.	.	100	0.42	2.5	15.2	35828	100
T. A. Seeds	X20544	270.3	.	.	100	0.45	2.0	17.5	34086	97
AgraTech	75 VT2P	268.1	.	.	100	0.43	2.0	17.4	35719	100
Armor	AXC7114	265.6	.	.	100	0.44	1.5	16.0	34195	99
Dyna-Gro	CX17212	257.1	.	.	99	0.42	2.0	16.2	34739	100
T. A. Seeds	X20545	253.9	.	.	100	0.42	2.5	17.2	34957	99
Armor	AXC7118	251.9	.	.	98	0.44	2.5	17.3	33433	100
T. A. Seeds	X20390	251.2	.	.	100	0.42	1.5	16.5	34086	100
Armor	AXT7116	250.5	.	.	98	0.43	2.0	17.0	34303	96
Dyna-Gro	D52VC50	238.0	.	.	99	0.40	1.5	15.8	34304	100
Dyna-Gro	D49VC39	232.4	.	.	101	0.40	2.5	15.1	32343	99
T. A. Seeds	X20546	222.2	.	.	99	0.36	1.5	17.9	35719	91
Average		261.2[4]	262.6	.	100	0.43	1.9	16.7	34834	98
LSD at 10% Level		17.3	NS[5]	-	2	0.03	0.6	0.5	1252	4
Std. Err. of Entry M		7.3	-	-	1	0.01	0.2	0.2	527	2

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 5.6%, and df for EMS = 45.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: March 28, 2017.
Harvested: August 17, 2017.
Seeding Rate: 37,000 seeds per acre in 30-inch rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Medium, K = Medium, and pH = 6.2.
Fertilization: 125 lb N, 185 lb P_2O_5, and 310 lb K_2O/acre as preplant; 10 lb N and 34 lb P_2O_5/acre at planting; 260 lb N/acre as sidedress.
Previous Crop: Peanuts.
Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Aidua, and Warrant used for weed control; Telone II used for nematode control; irrigated 17.5 inches.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Plains, Georgia:
Short-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®23BHR55™ Brand	**273.8**	**250.1**	**238.7**	99	0.41	2.5	13.6	36917	100
Terral Seed	REV®25BHR26™ Brand	**269.6**	**250.9**	**249.5**	100	0.42	2.0	13.7	35175	100
Augusta Seed	5065GTCBLL	**262.6**	.	.	100	0.44	1.5	15.2	33650	100
MorCorn	MC4319	242.5	.	.	99	0.39	1.5	14.0	34630	100
Dyna-Gro	D55VC45	241.8	.	.	100	0.38	2.0	13.5	35283	100
Augusta Seed	1165VT2PRO	241.1	.	.	99	0.39	2.5	14.3	34195	100
Armor	1414	239.6	.	.	100	0.38	2.5	13.2	34412	100
AgriGold	A6499STX	236.8	.	.	99	0.40	1.5	14.0	33324	100
DeKalb	DKC 65-94 STX	235.0	.	.	99	0.36	2.0	13.6	36591	100
T. A. Seeds	TA744-22DP	230.8	**223.7**	.	100	0.38	2.5	13.1	32888	99
DeKalb	DKC64-35 VT2P	229.1	**219.5**	.	100	0.35	1.5	13.3	35719	99
Croplan Genetics	6640 VT3P	227.9	**222.6**	**228.8**	100	0.35	1.5	12.9	35610	99
Augusta Seed	1564GT3000	227.7	.	.	99	0.37	3.0	13.9	34086	100
AgriGold	A6572STX	225.3	.	.	97	0.36	2.0	13.7	34848	100
Armor	1500	224.4	.	.	95	0.41	1.5	14.1	32126	100
Syngenta	N76A-3010	219.4	**220.9**	.	99	0.36	3.0	13.8	33650	100
AgraTech	65 VT2P	212.9	.	.	100	0.33	2.5	12.9	34739	100
Augusta Seed	6664VT2PRO	211.4	.	.	98	0.33	2.0	12.8	35610	100
Average		236.2[4]	231.3	239.0	99	0.38	2.1	13.6	34636	100
LSD at 10% Level		14.2	NS[5]	NS	2	0.02	0.5	0.5	1914	NS
Std. Err. of Entry Mean		6.0	3.5	4.6	1	0.01	0.2	0.2	808	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 5.1%, and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: March 30, 2017.
Harvested: August 23, 2017.
Seeding Rate: 37,000 seeds per acre in 30-inch rows.
Soil Type: Greenville sandy clay loam.
Soil Test: P = Medium, K = Very High, and pH = 6.0.
Fertilization: 147 lb N, 120 lb P_2O_5, and 0 lb K_2O/acre as preplant; 10 gal 10-34-0-10/acre (2x2 inch offset); 200 lb N/acre as sidedress; 1000 lb dolomitic lime/acre.
Previous Crop: Soybeans.
Management: Disked, subsoiled, field conditioned, rototilled, and one cultivation; Atrazine and Warrant used for weed control; irrigated 6.05 inches.

Test conducted by D. Dunn, D. Pearce, W. Jones, R. Brooke, and M. Cofield.

Plains, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Syngenta	N83D-3111	**260.5**	.	.	100	0.41	2.5	16.0	36155	100
AgraTech	85 VT2P	**260.2**	.	.	99	0.40	2.5	13.9	36591	100
Terral Seed	REV®28BHR18™ Brand	**255.1**	.	.	100	0.49	2.0	15.2	29403	100
AgriGold	A6659VT2PRO	**254.7**	.	.	100	0.40	1.5	14.6	35502	100
DeKalb	DKC70-27 VT2P	**254.5**	**253.2**	.	97	0.40	2.5	15.0	36590	100
Terral Seed	REV®26BHR50™ Brand	**250.4**	**252.6**	**251.8**	99	0.45	1.5	15.7	31472	100
Dyna-Gro	D57VP51	**248.8**	**254.9**	**249.7**	100	0.40	1.5	14.3	34848	100
Phoenix	7402	**248.8**	.	.	100	0.40	2.5	15.8	35066	100
Pioneer	P1662YHR	244.6	.	.	100	0.37	2.5	14.8	36699	100
AgraTech	1778	243.8	.	.	98	0.41	2.5	15.0	33977	100
Augusta Seed	A7766VT2PRO	242.5	**244.2**	.	100	0.38	2.5	13.3	35066	100
T. A. Seeds	TA774-22DPRIB	240.6	.	.	100	0.41	2.5	14.3	32670	100
MorCorn	MC4725	237.0	.	.	100	0.37	2.0	14.3	35175	99
Dyna-Gro	D58VC65	236.7	.	.	100	0.39	2.0	13.7	33541	99
DeKalb	DKC67-44 VT2P	234.4	**242.6**	.	99	0.37	1.5	13.5	35502	100
T. A. Seeds	TA765-30	233.7	.	.	99	0.40	2.0	14.3	32997	100
Croplan Genetics	5678 VT2P	232.4	**249.3**	.	99	0.37	1.0	13.8	34630	100
Augusta Seed	A7767VT2PRO	230.9	**236.1**	.	98	0.37	2.5	14.5	35610	100
Pioneer	P1916YHR	230.6	**240.3**	**243.5**	98	0.37	2.5	15.0	35175	100
Dyna-Gro	D58VC37	230.5	**236.6**	**241.1**	99	0.37	2.0	14.6	34957	97
Syngenta	N78S-3111	230.3	.	.	99	0.39	2.5	14.4	32561	100
T. A. Seeds	TA787-18	229.3	.	.	99	0.39	2.5	16.1	33759	99
Pioneer	P1870YHR	228.2	.	.	100	0.37	2.5	15.1	34195	100
Armor	1717	225.0	.	.	100	0.39	2.0	14.2	31690	95
Phoenix	6542	221.8	.	.	99	0.36	2.5	14.1	34630	99
AgriGold	A6711VT2PRO	215.7	.	.	100	0.34	2.0	13.7	34521	90
Average		239.3[4]	245.5	246.5	99	0.39	2.2	14.6	34345	99
LSD at 10% Level		15.8	NS[5]	NS	NS	0.03	0.6	0.7	1927	4
Std. Err. of Entry Mean		6.7	7.4	6.5	1	0.01	0.2	0.3	818	2

Plains, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated
(Continued)

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 5.6%, and df for EMS = 75.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	March 30, 2017.
Harvested:	August 23, 2017.
Seeding Rate:	37,000 seeds per acre in 30-inch rows.
Soil Type:	Greenville sandy clay loam.
Soil Test:	P = Medium, K = Very High, and pH = 6.0.
Fertilization:	147 lb N, 120 lb P_2O_5, and 0 lb K_2O/acre as preplant; 10 gal 10-34-0-10/acre (2x2 inch offset); 200 lb N/acre as sidedress; 1000 lb dolomitic lime/acre.
Previous Crop:	Soybeans.
Management:	Disked, subsoiled, field conditioned, rototilled, and one cultivation; Atrazine and Warrant used for weed control; irrigated 6.05 inches.

Test conducted by D. Dunn, D. Pearce, W. Jones, R. Brooke, and M. Cofield.

Midville, Georgia:
Short-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®23BHR55™ Brand	**268.2**	**267.0**	**262.3**	100	0.41	1.5	14.2	35846	83
Terral Seed	REV®25BHR26™ Brand	**255.5**	**259.1**	**259.1**	99	0.45	1.5	13.9	31672	96
Augusta Seed	1165VT2PRO	249.1	.	.	100	0.44	1.7	15.5	31581	99
T. A. Seeds	TA744-22DP	244.6	**246.9**	.	100	0.42	1.5	14.7	32307	97
Croplan Genetics	6640 VT3P	244.1	**248.8**	**253.4**	100	0.41	2.5	14.5	32579	98
Dyna-Gro	D55VC45	243.4	.	.	101	0.40	2.5	14.4	33396	96
DeKalb	DKC64-35 VT2P	239.5	**237.6**	.	100	0.38	1.5	14.2	34485	100
Augusta Seed	5065GTCBLL	236.7	.	.	101	0.41	1.5	15.6	32398	53
Augusta Seed	6664VT2PRO	235.5	.	.	99	0.40	2.5	14.4	32761	95
AgriGold	A6572STX	224.8	.	.	100	0.37	1.5	14.9	34031	97
DeKalb	DKC 65-94 STX	224.0	.	.	100	0.38	2.5	14.9	32670	99
AgriGold	A6499STX	218.5	.	.	101	0.39	2.5	15.1	30946	100
AgraTech	65 VT2P	215.9	.	.	100	0.38	2.0	14.4	31581	91
Armor	1414	215.7	.	.	101	0.37	3.0	14.5	31853	86
Armor	1500	215.6	.	.	92	0.41	2.0	15.0	31672	96
MorCorn	MC4319	214.0	.	.	99	0.37	2.0	15.3	32761	84
Augusta Seed	1564GT3000	212.7	.	.	101	0.39	2.5	15.5	30401	72
Syngenta	N76A-3010	204.3	**225.8**	.	101	0.37	2.5	15.7	30674	69
Average		231.2[4]	247.5	258.3	100	0.40	2.1	14.8	32423	89
LSD at 10% Level		15.8	NS[5]	NS	2	0.03	0.6	0.5	1926	13
Std. Err. of Entry Mean		6.6	4.7	4.2	1	0.01	0.2	0.2	805	5

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 5.7%, and df for EMS = 50.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 11, 2017.
Harvested: August 29, 2017.
Seeding Rate: 35,900 seeds per acre in 30-inch rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = High, and pH = 6.4.
Fertilization: 60 lb N, 150 lb P_2O_5, and 250 lb K_2O/acre as preplant; 39 lb N, 43 lb P_2O_5, 0 lb K_2O/acre (banded) at planting; 228 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, field conditioned, and subsoiled/bedded; Atrazine and Warrant used for weed control; Telone II used for nematode control; irrigated 10.25 inches.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Midville, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®28BHR18™ Brand	**274.1**	.	.	100	0.54	1.5	15.3	28223	99
AgriGold	A6659VT2PRO	**266.6**	.	.	101	0.45	1.5	15.2	32942	95
Croplan Genetics	5678 VT2P	**262.8**	**255.2**	.	100	0.45	1.5	14.5	32579	97
AgriGold	A6711VT2PRO	**259.7**	.	.	100	0.46	1.5	15.3	31672	92
Dyna-Gro	D58VC65	**258.1**	.	.	99	0.44	1.5	14.7	32579	84
Pioneer	P1870YHR	**255.1**	.	.	100	0.44	2.5	16.3	32579	97
DeKalb	DKC70-27 VT2P	**253.3**	**259.6**	.	103	0.44	2.0	15.8	31672	99
Dyna-Gro	D57VP51	251.2	**257.9**	**261.4**	102	0.44	1.5	15.2	31672	96
Dyna-Gro	D58VC37	249.7	**261.2**	**270.7**	100	0.41	2.5	15.1	34213	92
MorCorn	MC4725	249.0	.	.	101	0.44	2.0	15.1	30946	84
Terral Seed	REV®26BHR50™ Brand	246.9	**262.7**	**268.9**	101	0.40	1.5	15.7	34304	74
T. A. Seeds	TA774-22DPRIB	241.4	.	.	100	0.45	2.0	15.8	30492	100
DeKalb	DKC67-44 VT2P	240.9	**254.6**	.	100	0.42	2.0	14.5	31944	96
Armor	1717	240.0	.	.	100	0.45	1.5	14.7	29222	96
Pioneer	P1916YHR	240.0	**237.3**	245.2	100	0.41	1.5	16.2	33487	95
AgraTech	85 VT2P	238.5	.	.	101	0.38	1.5	14.8	34576	95
Phoenix	7402	235.0	.	.	100	0.41	2.0	16.9	32670	72
Syngenta	N83D-3111	233.1	.	.	100	0.44	2.5	16.5	30038	85
AgraTech	1778	231.9	.	.	100	0.41	1.0	15.6	32035	93
Augusta Seed	A7766VT2PRO	231.0	**240.7**	.	100	0.39	3.0	14.9	32489	85
T. A. Seeds	TA765-30	230.9	.	.	100	0.41	1.5	14.0	31400	84
Pioneer	P1662YHR	230.6	.	.	100	0.40	1.5	14.6	32126	78
T. A. Seeds	TA787-18	223.6	.	.	100	0.41	1.5	16.2	31400	93
Augusta Seed	A7767VT2PRO	221.1	**232.0**	.	100	0.37	2.0	15.3	32942	97
Phoenix	6542	210.8	.	.	100	0.35	2.0	15.7	33578	46
Syngenta	N78S-3111	187.8	.	.	100	0.36	3.0	15.2	29312	53
Average		240.9[4]	251.2	261.6	100	0.42	1.8	15.3	31965	87
LSD at 10% Level		22.2	NS[5]	10.6	NS	0.05	0.5	0.5	2207	14
Std. Err. of Entry Mean		9.4	5.2	4.4	1	0.02	0.2	0.2	937	6

Midville, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated
(Continued)

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 7.8%, and df for EMS = 75.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	April 11, 2017.
Harvested:	August 29, 2017.
Seeding Rate:	35,000 seeds per acre in 30-inch rows.
Soil Type:	Dothan loamy sand.
Soil Test:	P = Medium, K = High, and pH = 6.4.
Fertilization:	60 lb N, 150 lb P_2O_5, and 250 lb K_2O/acre as preplant; 39 lb N, 43 lb P_2O_5, 0 lb K_2O/acre (banded) at planting; 228 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Disked, field conditioned, and subsoiled/bedded; Atrazine and Warrant used for weed control; Telone II used for nematode control; irrigated 10.25 inches.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Piedmont Region

Athens, Georgia:
Short-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg[2]	Yield[1] 3-Yr Avg[3]	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[4]	Grain Moist.[5]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®23BHR55™ Brand	**240.7**	**232.7**	**232.9**	103	0.42	2.1	16.2	31284	96
Terral Seed	REV®25BHR26™ Brand	**228.9**	**233.5**	**234.4**	102	0.41	2.0	16.3	31284	96
Armor	1414	220.8	.	.	105	0.4	2.4	15.9	29700	94
DeKalb	DKC64-35 VT2P	214.1	**207.0**	.	103	0.37	2.1	16.2	31779	100
AgriGold	A6572STX	209.1	.	.	102	0.36	1.4	16.6	32274	100
Croplan Genetics	6640 VT3P	206.0	**222.1**	**230.0**	101	0.39	2.0	15.7	29700	100
DeKalb	DKC 65-94 STX	201.5	.	.	102	0.37	1.9	16.9	30195	97
MorCorn	MC4319	196.6	.	.	100	0.37	1.9	16.5	29700	100
T. A. Seeds	TA744-22DP	196.0	**206.7**	.	101	0.38	2.0	15.9	28512	100
AgriGold	A6499STX	188.7	.	.	106	0.36	1.5	16.6	27819	97
Armor	1500	180.9	.	.	102	0.38	1.4	16.8	26928	98
Average		207.6 [6]	220.4	232.4	102	0.38	1.9	16.3	29925	98
LSD at 10% Level		17.9	NS[7]	NS	NS	0.03	0.3	NS	1915	NS
Std. Err. of Entry Mean		7.5	4.9	5.3	2	0.01	0.1	0.3	798	2

1. Yields calculated at 15.5% moisture.
2. 2-year data comprised of Athens 2017 and Griffin 2016 trials.
3. 3-year data comprised of Athens 2017, Griffin 2016, and Griffin 2015 trials.
4. Grain quality rating: 1 = excellent to 5 = poor.
5. Grain moisture at harvest.
6. CV = 7.2%, and df for EMS = 30.
7. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 13, 2017.
Harvested: September 7, 2017.
Seeding Rate: 30,000 seeds per acre in 30-inch rows.
Soil Type: Masada A/Wickham sandy loam.
Soil Test: P = Medium, K = High, and pH = 6.1.
Fertilization: 38.5 lb N, 182 lb P_2O_5, and 210 lb K_2O/acre as preplant; 278 lb N/acre as sidedress; 1,500 lb dolomitic lime/acre
Previous Crop: Cotton.
Management: Disked and rototilled; Atrazine and Zidua used for weed control; irrigated 3 inches.

Test conducted by H. Jordan, G. Ware, J. Cartey, J. Griffin, and K. Roach.

Athens, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg[2]	Yield[1] 3-Yr Avg[3]	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[4]	Grain Moist.[5]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®28BHR18™ Brand	**268.9**	.	.	105	0.60	2.1	16.9	24849	97
Terral Seed	REV®26BHR50™ Brand	232.6	**260.3**	**252.1**	100	0.42	2.0	17.6	31482	91
DeKalb	DKC67-44 VT2P	226.4	**240.5**	.	104	0.41	2.0	16.3	30690	93
AgriGold	A6659VT2PRO	226.4	.	.	103	0.40	1.6	16.0	30789	95
Pioneer	P1870YHR	223.4	.	.	102	0.41	1.9	17.6	30987	96
T. A. Seeds	TA765-30	222.4	.	.	101	0.40	1.8	16.1	30987	94
Pioneer	P1662YHR	220.1	.	.	100	0.38	2.0	16.6	32868	98
Phoenix	7402	219.1	.	.	100	0.42	2.1	18.5	30492	88
Croplan Genetics	5678 VT2P	218.1	**234.9**	.	100	0.40	1.9	15.2	30294	82
DeKalb	DKC70-27 VT2P	217.7	**232.9**	.	103	0.40	2.0	17.2	30492	93
T. A. Seeds	TA787-18	215.3	.	.	100	0.40	1.8	17.8	31383	89
MorCorn	MC4725	214.3	.	.	105	0.37	2.0	16.3	31086	79
Dyna-Gro	D58VC37	208.7	**239.7**	**241.6**	107	0.37	2.0	15.6	29898	77
T. A. Seeds	TA774-22DPRIB	208.6	.	.	100	0.40	3.5	16.1	29700	90
Pioneer	P1916YHR	207.9	**217.3**	**224.2**	101	0.39	2.0	17.1	30096	98
Phoenix	6542	207.0	.	.	103	0.41	2.5	17.0	28413	93
Armor	1717	198.0	.	.	105	0.39	1.9	15.8	26928	73
AgriGold	A6711VT2PRO	196.2	.	.	107	0.34	2.0	15.9	30294	67
Average		218.4[6]	237.6	239.3	103	0.41	2.1	16.6	30096	88
LSD at 10% Level		28.1	NS[7]	NS	3	0.07	NS	0.7	2186	9
Std. Err. of Entry Mean		11.9	6.6	5.0	1	0.03	0.4	0.3	923	4

1. Yields calculated at 15.5% moisture.
2. 2-year data comprised of Athens 2017 and Griffin 2016 trials.
3. 3-year data comprised of Athens 2017, Griffin 2016, and Griffin 2015 trials.
4. Grain quality rating: 1 = excellent to 5 = poor.
5. Grain moisture at harvest.
6. CV = 10.9%, and df for EMS = 51.
7. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 13, 2017.
Harvested: September 7, 2017.
Seeding Rate: 26,500 seeds per acre in 30-inch rows.
Soil Type: Masada A/Wickham sandy loam.
Soil Test: P = Medium, K = High, and pH = 6.1.
Fertilization: 38.5 lb N, 182 lb P_2O_5, and 210 lb K_2O/acre as preplant; 278 lb N/acre as sidedress; 1,500 lb dolomitic lime/acre
Previous Crop: Cotton.
Management: Disked and rototilled; Atrazine and Zidua used for weed control; irrigated 3 inches.

Test conducted by H. Jordan, G. Ware, J. Cartey, J. Griffin, and K. Roach.

North Georgia Region

Calhoun, Georgia:
Short-Season Corn Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Armor	1414	**177.1**	.	.	103	0.42	2.4	19.6	24394	100
Terral Seed	REV®23BHR55™ Brand	**175.1**	**158.7**	**159.0**	97	0.41	2.9	17.5	25846	100
Terral Seed	REV®25BHR26™ Brand	**169.2**	**149.5**	**146.4**	98	0.44	1.4	19.1	23305	99
DeKalb	DKC 65-94 STX	**166.4**	.	.	94	0.45	1.9	20.3	23305	100
AgriGold	A6572STX	**162.1**	.	.	99	0.44	1.6	19.9	22216	100
AgriGold	A6499STX	**159.9**	.	.	97	0.42	1.7	19.4	22506	99
DeKalb	DKC64-35 VT2P	**153.0**	132.8	.	93	0.44	1.5	19.7	21998	100
MorCorn	MC4319	**152.0**	.	.	91	0.48	1.9	21.0	21490	96
Croplan Genetics	6640 VT3P	**149.4**	129.3	**143.6**	101	0.37	1.7	18.2	22434	100
Armor	1500	**139.3**	.	.	97	0.36	1.6	18.9	23377	99
Average		160.3[4]	142.6	149.7	97	0.42	1.8	19.3	23087	99
LSD at 10% Level		NS[5]	17.1	NS	6	0.05	0.6	1.3	NS	2
Std. Err. of Entry Mean		8.4	6.5	6.1	2	0.02	0.3	0.6	1112	1

NOTE: This trial has non-significant differences in yield primarily due to stand problems. The data is being presented but the editors recommend extreme caution in utilizing it. Although not in the Limestone Valley region, results from the Blairsville and Athens grain trials may provide more useful information this year.

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 10.4%, and df for EMS = 21.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 3, 2017.
Harvested: September 9, 2017.
Seeding Rate: 31,500 seeds per acre in 30-inch rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = High, K = Very High, and pH = 6.5.
Fertilization: 60 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 135 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, and Zidua used for weed control.

Test conducted by H. Jordan, G. Ware, and J. Stubbs.

Calhoun, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®28BHR18™ Brand	**176.3**	.	.	99	0.53	1.0	19.7	19602	99
AgriGold	A6711VT2PRO	**174.7**	.	.	94	0.48	1.3	18.9	22325	100
Dyna-Gro	D58VC37	**172.2**	**165.3**	**159.3**	96	0.48	1.9	21.5	22651	99
Pioneer	P1870YHR	**169.7**	.	.	98	0.48	1.9	21.1	21780	100
T. A. Seeds	TA774-22DPRIB	**167.2**	.	.	96	0.51	1.5	19.9	20255	100
DeKalb	DKC70-27 VT2P	**165.4**	**152.1**	.	102	0.44	1.1	22.1	22941	100
AgriGold	A6659VT2PRO	**156.8**	.	.	100	0.46	1.6	18.0	20328	100
DeKalb	DKC67-44 VT2P	**156.8**	**165.0**	.	96	0.46	1.3	19.2	20618	100
Pioneer	P1662YHR	**149.4**	.	.	100	0.39	2.3	18.7	22760	100
Pioneer	P1916YHR	**148.7**	**142.4**	135.9	92	0.51	1.7	21.7	19021	100
Average		163.7[4]	156.2	147.6	97	0.47	1.6	20.1	21228	100
LSD at 10% Level		NS[5]	NS	12.6	NS	0.06	0.5	2.1	NS	NS
Std. Err. of Entry Mean		8.5	5.6	4.7	3	0.02	0.2	0.9	1058	-

NOTE: This trial has non-significant differences in yield primarily due to stand problems. The data is being presented but the editors recommend extreme caution in utilizing it. Although not in the Limestone Valley region, results from the Blairsville and Athens grain trials may provide more useful information this year.

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 10.3%, and df for EMS = 22.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 3, 2017.
Harvested: September 9, 2017.
Seeding Rate: 31,500 seeds per acre in 30-inch rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = High, K = Very High, and pH = 6.5.
Fertilization: 60 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 135 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, and Zidua used for weed control.

Test conducted by H. Jordan, G. Ware, and J. Stubbs.

Calhoun, Georgia:
Short-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Armor	1414	**213.8**	.	.	98	0.49	1.8	19.8	26463	100
Terral Seed	REV®25BHR26™ Brand	**204.7**	**200.3**	**195.8**	99	0.45	1.4	19.7	26572	100
MorCorn	MC4319	**202.3**	.	.	98	0.48	1.5	20.0	25374	100
DeKalb	DKC 65-94 STX	**202.0**	.	.	97	0.49	1.3	22.3	26463	100
Terral Seed	REV®23BHR55™ Brand	**201.7**	**202.5**	**195.4**	103	0.43	1.9	18.7	27152	99
Croplan Genetics	6640 VT3P	**195.8**	**203.3**	**199.8**	98	0.45	1.3	19.8	26463	100
DeKalb	DKC64-35 VT2P	**195.0**	**193.5**	.	96	0.45	1.5	21.3	27334	99
AgriGold	A6572STX	**188.3**	.	.	100	0.43	1.3	20.8	26572	100
Armor	1500	**175.5**	.	.	96	0.50	1.5	21.4	22651	100
AgriGold	A6499STX	**168.4**	.	.	102	0.42	1.5	25.1	22942	100
Average		194.7[4]	199.9	197.0	99	0.46	1.5	20.9	25798	100
LSD at 10% Level		NS[5]	NS	NS	NS	0.04	0.4	2.4	NS	1
Std. Err. of Entry Mean		12.1	6.3	4.1	3	0.02	0.2	1.0	1211	-

NOTE: This trial has non-significant differences in yield primarily due to stand problems. The data is being presented but the editors recommend extreme caution in utilizing it. Although not in the Limestone Valley region, results from the Blairsville and Athens grain trials may provide more useful information this year.

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 12.3%, and df for EMS = 24.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: May 3, 2017.
Harvested: September 9, 2017.
Seeding Rate: 35,000 seeds per acre in 30-inch rows.
Soil Type: Waynesboro loam.
Soil Test: P = High, K = Very High, and pH = 6.4.
Fertilization: 120 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 268 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, and Zidua used for weed control; irrigated 5 inches.

Test conducted by H. Jordan, G. Ware, and J. Stubbs.

Calhoun, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
AgriGold	A6711VT2PRO	**234.9**	.	.	100	0.53	1.3	20.8	26862	100
T. A. Seeds	TA774-22DPRIB	**225.5**	.	.	103	0.48	1.6	20.8	26717	100
AgriGold	A6659VT2PRO	**219.1**	.	.	98	0.52	1.8	19.8	25483	100
Pioneer	P1916YHR	**217.6**	**203.7**	**206.5**	95	0.51	1.3	20.5	26681	100
Dyna-Gro	D58VC37	**213.5**	**206.9**	**209.4**	102	0.50	1.8	21.2	25374	99
Terral Seed	REV®28BHR18™ Brand	**213.4**	.	.	102	0.54	1.6	20.8	23305	100
DeKalb	DKC70-27 VT2P	**211.5**	**198.5**	.	97	0.51	1.1	23.0	26027	99
DeKalb	DKC67-44 VT2P	**205.0**	**218.9**	.	97	0.51	1.4	20.9	24974	100
Pioneer	P1870YHR	**205.0**	.	.	90	0.54	1.6	21.4	25374	100
Pioneer	P1662YHR	**198.9**	.	.	100	0.44	1.6	19.7	26572	98
Average		214.4 [4]	207.0	207.9	98	0.51	1.5	20.9	25737	100
LSD at 10% Level		NS[5]	NS	NS	NS	NS	NS	NS	NS	NS
Std. Err. of Entry Mean		15.2	10.0	9.9	3	0.03	0.3	0.6	1274	1

NOTE: This trial has non-significant differences in yield primarily due to stand problems. The data is being presented but the editors recommend extreme caution in utilizing it. Although not in the Limestone Valley region, results from the Blairsville and Athens grain trials may provide more useful information this year.

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 14.2%, and df for EMS = 24.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	May 3, 2017.
Harvested:	September 9, 2017.
Seeding Rate:	35,000 seeds per acre in 30-inch rows.
Soil Type:	Waynesboro loam.
Soil Test:	P = High, K = Very High, and pH = 6.4.
Fertilization:	120 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 268 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Moldboard plowed, disked, and rototilled; Atrazine, Callisto, and Zidua used for weed control; irrigated 5 inches.

Test conducted by H. Jordan, G. Ware, and J. Stubbs.

Blairsville, Georgia:
Short-Season Corn Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral Seed	REV®23BHR55™ Brand	**308.1**	**302.2**	**316.0**	101	0.53	2.8	17.7	33264	100
Terral Seed	REV®25BHR26™ Brand	**305.5**	**294.2**	**314.5**	101	0.53	2.1	17.0	32472	100
DeKalb	DKC64-35 VT2P	279.3	274.1	.	100	0.47	1.8	17.6	34056	100
Croplan Genetics	6640 VT3P	262.7	265.5	270.8	101	0.44	2.0	16.5	33759	100
DeKalb	DKC 65-94 STX	259.8	.	.	101	0.44	1.5	17.5	33561	100
MorCorn	MC4319	256.6	.	.	100	0.45	1.6	17.8	32472	98
AgriGold	A6499STX	254.6	.	.	100	0.46	1.8	17.7	32076	100
Armor	1414	251.5	.	.	103	0.42	2.3	15.2	32175	100
AgriGold	A6572STX	246.4	.	.	101	0.41	1.5	17.0	33858	100
Armor	1500	231.7	.	.	99	0.46	2.0	16.6	29304	99
Average		265.6[4]	284.0	300.4	101	0.46	1.9	17.0	32700	100
LSD at 10% Level		22.3	14.4	11.6	NS[5]	0.04	0.6	1.0	1104	NS
Std. Err. of Entry Mean		9.2	5.9	4.7	1	0.02	0.2	0.4	458	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 7.0%, and df for EMS = 27.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 29, 2017.
Harvested: October 3, 2017.
Seeding Rate: 35,000 seeds per acre in 30-inch rows.
Soil Type: Suches loam.
Soil Test: P = High, K = Very High, and pH = 6.0.
Fertilization: 154 lb N, 183 lb P_2O_5, and 10 lb K_2O/acre as preplant; 227 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed and disked; Accent Q and Callisto used for weed control.

Test conducted by H. Jordan and G. Ware.

Blairsville, Georgia:
Mid-Season Corn Hybrid Performance, 2017, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2017	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Pioneer	P1870YHR	**305.0**	.	.	99	0.55	2.3	19.3	32868	100
DeKalb	DKC70-27 VT2P	**295.8**	**287.6**	.	99	0.52	1.3	19.3	33759	100
Terral Seed	REV®28BHR18™ Brand	285.8	.	.	102	0.61	2.3	18.1	26532	100
MorCorn	MC4725	285.4	.	.	101	0.48	2.0	17.6	33462	100
T. A. Seeds	TA765-30	282.4	.	.	100	0.48	2.0	17.6	33363	100
Dyna-Gro	D58VC37	270.5	**263.1**	**276.3**	101	0.46	2.1	17.2	33165	100
Pioneer	P1662YHR	266.6	.	.	100	0.45	2.3	17.4	33957	100
AgriGold	A6711VT2PRO	255.5	.	.	101	0.44	2.0	17.5	32967	99
DeKalb	DKC67-44 VT2P	250.2	**264.5**	.	100	0.42	1.9	15.8	33462	93
AgriGold	A6659VT2PRO	249.8	.	.	100	0.43	1.5	17.0	32868	100
Armor	1717	248.4	.	.	100	0.47	2.0	17.6	30096	100
T. A. Seeds	TA774-22DPRIB	246.3	.	.	100	0.46	1.6	18.7	31284	100
Phoenix	7402	239.3	.	.	102	0.42	2.3	19.8	33264	97
Phoenix	6542	218.0	.	.	100	0.41	2.3	17.3	30195	98
Average		264.2[4]	271.7	276.3	100	0.47	2.0	17.9	32232	99
LSD at 10% Level		16.0	NS[5]	NS	NS	0.03	0.4	1.1	980	3
Std. Err. of Entry M		6.7	4.1	-	1	0.01	0.2	0.5	411	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 5.1%, and df for EMS = 39.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 29, 2017.
Harvested: October 3, 2017.
Seeding Rate: 35,000 seeds per acre in 30-inch rows.
Soil Type: Suches loam.
Soil Test: P = High, K = Very High, and pH = 6.0.
Fertilization: 154 lb N, 183 lb P_2O_5, and 10 lb K_2O/acre as preplant; 227 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed and disked; Accent Q and Callisto used for weed control.

Test conducted by H. Jordan and G. Ware.

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage
Blairsville, Athens, and Tifton, Georgia, 2017

Company or Brand Name	Hybrid Name	Dry Matter Yield				Grain Portion[1]	Quality Factors[1] Milk Production[2]	
		Statewide Average	Blairsville	Athens	Tifton		DM lbs/ton	lbs/acre
		---------- tons/acre ----------				%		
Mid-Season								
AgraTech	1778	.	.	.	**13.3**	47	2604	34638
AgraTech	1023VIP	.	.	.	**12.6**	42	2807	35652
AgraTech	908VIP	.	.	.	12.0	53	2803	33639
AgraTech	999 VIP	.	.	.	11.4	38	2784	31739
AgriGold	A6659VT2PRO	.	.	.	11.5	52	2837	32630
AgriGold	A6711VT2PRO	.	.	.	11.9	55	2940	34982
Augusta Seed	7767-3110GT	.	.	.	**12.8**	49	2718	35064
Augusta Seed	7769GT	.	.	.	11.4	47	2639	30081
Augusta Seed	A7668GT3110	.	.	.	11.7	50	2772	32436
Croplan Genetics	5678 VT2P	.	.	.	10.1	58	2861	28898
Croplan Genetics	7927 VT3P	.	.	.	**13.0**	50	2806	36473
Croplan Genetics	S5900 VT2P	.	.	.	**12.4**	46	2789	34587
DeKalb	DKC66-75 VT2P	11.0	11.3	**9.6**	12.0	57	2788	33454
DeKalb	DKC70-03 VT3P	10.9	11.9	9.4	11.5	49	2806	32273
DeKalb	DKC70-27 VT2P	**12.4**	**14.8**	**9.6**	**12.9**	52	2802	36146
Dyna-Gro	D58QC72	.	.	.	**13.6**	59	2852	38791
Dyna-Gro	D58SS65	10.0	9.8	9.2	10.4	54	2923	30398
Master's Choice	618R	.	.	.	11.6	58	2766	32364
Master's Choice	MCT6653	.	.	.	**13.2**	54	2746	36523
Master's Choice	MCT6733	.	.	.	10.3	56	2835	29199
Mycogen	F2F 817	8.9	8.9	8.8	9.1	49	2864	26063
Mycogen	TMF17L86	.	.	8.3	12.1	47	2794	33809
Mycogen	TMF17W91	.	.	**10.1**	11.6	50	2575	29867
Pioneer	P1662YHR	10.5	11.0	8.4	12.0	55	2855	34265
Pioneer	P1870YHR	10.4	10.5	9.3	11.5	56	2803	32229
Syngenta	N78S-3111	.	.	.	11.2	55	2828	31675
Syngenta	N83D-3111	.	.	.	11.6	52	2841	32960
Syngenta NK	N74G-3000GT	.	.	.	**12.9**	48	2750	35471
T. A. Seeds	TA780-13VPRIB	10.7	11.7	8.5	11.9	52	2595	30877
T. A. Seeds	TA784-13VPRIB	.	12.4	.	12.0	50	2707	32489
T. A. Seeds	TA787-18	10.3	10.6	8.9	11.3	50	2834	32305
T. A. Seeds	X20390	.	.	.	10.8	55	2812	30651
Terral Seed	REV®26BHR50™ Brand	.	.	**10.6**	**13.6**	56	2760	37533
Terral Seed	REV®28BHR18™ Brand	10.7	11.7	8.9	11.7	55	2843	33263
Average		*10.6*	*11.3*	*9.2*	*11.9*	*52*	*2786*	*33042*

Summary of Evaluations of Corn Hybrids for Silage
Blairsville, Athens, and Tifton, Georgia, 2017
(Continued)

Company or Brand Name	Hybrid Name	Dry Matter Yield				Grain Portion[1]	Quality Factors[1] Milk Production[2]	
		Statewide Average	Blairsville	Athens	Tifton		DM lbs/ton	lbs/acre
		---------- tons/acre ----------				%		
Short -Season								
AgriGold	A6499STX	.	.	.	10.7	58	**3015**	32256
AgriGold	A6572STX	.	.	.	11.2	58	**2942**	33240
Augusta Seed	1165VT2PRO	.	.	.	12.3	49	**2889**	35539
Augusta Seed	A9074GT3110	.	.	.	**12.9**	45	**2691**	34710
DeKalb	DKC 65-94 STX	9.8	9.4	8.8	11.2	59	**2912**	32615
Dyna-Gro	D55GT73	.	.	.	**13.0**	55	**2859**	**37456**
Dyna-Gro	D55VC45	.	.	.	12.2	53	**2886**	35213
Mycogen	TMF12Q57	.	10.1	.	.	47	.	.
Mycogen	TMF14L46	.	**13.3**	.	.	43	.	.
Pioneer	P1442YHR	10.2	10.4	8.8	11.4	54	**2792**	31827
Terral Seed	REV®23BHR55™ Brand	10.9	11.7	9.3	11.8	58	**2777**	32773
Terral Seed	REV®25BHR26™ Brand	11.2	11.9	9.1	12.5	55	**2707**	33837
Average		*10.5*	*11.1*	*9.0*	*11.9*	*53*	*2847*	*33947*
Overall Test Statistics:								
Average		10.6 [3]	11.3	9.1	12.2	52	2800	33247
LSD at 10% Level		0.8	2.1	1.1	0.9	4	NS[4]	2206
Std. Err. of Entry Mean		0.4	0.9	0.5	0.4	1	56	656

1. Data from the replicated silage trial at Tifton.
2. Calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2006 and reported as lbs milk/ton of dry matter (DM) and lbs milk/acre. Reported values are lower than previous years due to differences between the 2000 and 2006 model predictions, but for hybrid comparisons the 2006 model should be more accurate.
3. CV = 13.0%, and df for EMS = 153.
4. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries performing equally to highest performing entry within a column based on Fisher's protected LSD (P = 0.10).

Summary of Quality Factors of Corn Hybrids for Silage
Tifton, Georgia, 2017

Company or Brand Name	Hybrid Name	Quality Factors[1] Milk Production[2] lbs/ton DM	Milk Production[2] lbs/acre	Protein[3]	NDF[4]	ADF[5]	Starch[6]	TDN[7]	NDFD-48[8]	Ash[9]	Dry Matter Yield Grain Portion	Dry Matter Yield Tifton
				%	%	%	%	%	%	%	%	tons/acre
Mid-Season												
Dyna-Gro	D58QC72	**2852**	**38791**	7.6	41.5	27.7	35.5	65.9	54	4.8	59	**13.6**
Terral Seed	REV®26BHR50™ Brand	**2760**	**37533**	8.0	45.9	29.9	28.9	64.9	55	5.5	56	**13.6**
Master's Choice	MCT6653	**2746**	36523	7.2	41.6	27.6	37.2	64.4	53	4.5	54	**13.2**
Croplan Genetics	7927 VT3P	**2806**	36473	7.4	34.1	24.1	45.4	65.0	51	4.3	50	**13.0**
DeKalb	DKC70-27 VT2P	**2802**	36146	7.8	38.1	27.0	40.1	65.0	52	4.5	52	**12.9**
AgraTech	1023VIP	**2807**	35652	8.0	47.5	31.3	27.1	65.5	55	5.2	42	**12.6**
Syngenta NK	N74G-3000GT	**2750**	35471	8.0	44.9	29.1	31.1	64.6	54	5.2	48	**12.9**
Augusta Seed	7767-3110GT	**2718**	35064	8.2	43.2	29.2	32.7	64.1	54	5.3	49	**12.8**
AgriGold	A6711VT2PRO	**2940**	34982	7.6	36.4	25.6	43.4	66.9	54	3.9	55	11.9
AgraTech	1778	**2604**	34638	7.9	47.7	32.1	25.5	62.7	53	6.1	47	**13.3**
Croplan Genetics	S5900 VT2P	**2789**	34587	7.5	43.6	29.4	31.3	65.0	53	5.1	46	12.4
Pioneer	P1662YHR	**2855**	34265	7.6	37.0	25.0	41.9	65.7	52	4.3	55	12.0
Mycogen	TMF17L86	**2794**	33809	7.1	42.5	28.5	35.5	65.1	54	4.5	47	12.1
AgraTech	908VIP	**2803**	33639	7.3	37.6	25.2	45.2	65.2	54	4.1	53	12.0
DeKalb	DKC66-75 VT2P	**2788**	33454	7.6	33.7	23.0	49.1	64.9	52	4.2	57	12.0
Terral Seed	REV®28BHR18™ Brand	**2843**	33263	7.7	35.3	23.5	46.6	65.6	53	3.9	55	11.7
Syngenta	N83D-3111	**2841**	32960	7.7	37.0	24.1	41.5	65.7	54	4.7	52	11.6
AgriGold	A6659VT2PRO	**2837**	32630	7.4	39.3	26.7	39.4	65.6	53	4.1	52	11.5
T. A. Seeds	TA784-13VPRIB	**2707**	32489	7.6	39.7	27.5	37.5	63.6	51	4.8	50	12.0
Augusta Seed	A7668GT3110	**2772**	32436	8.3	43.0	28.3	33.7	65.1	56	5.2	50	11.7
Master's Choice	618R	**2766**	32364	6.6	43.2	28.4	37.4	64.7	54	4.2	58	11.6
T. A. Seeds	TA787-18	**2834**	32305	7.4	43.3	27.2	35.1	65.9	56	4.5	50	11.3
DeKalb	DKC70-03 VT3P	**2806**	32273	7.8	40.9	27.2	35.1	65.2	53	5.1	49	11.5
Pioneer	P1870YHR	**2803**	32229	8.1	38.6	25.9	39.8	65.2	54	4.9	56	11.5
AgraTech	999 VIP	**2784**	31739	8.4	43.9	29.3	30.5	65.0	54	5.3	38	11.4
Syngenta	N78S-3111	**2828**	31675	6.4	42.6	28.4	38.6	65.7	56	4.0	55	11.2
T. A. Seeds	TA780-13VPRIB	**2595**	30877	7.2	48.4	31.0	29.7	62.8	55	5.3	52	11.9
T. A. Seeds	X20390	**2812**	30651	7.7	40.6	26.9	37.9	65.3	54	4.5	55	10.8
Dyna-Gro	D58SS65	**2923**	30398	8.3	35.3	24.3	42.3	66.6	53	4.3	54	10.4
Augusta Seed	7769GT	**2639**	30081	8.5	40.4	27.4	36.7	62.9	51	5.3	47	11.4
Mycogen	TMF17W91	**2575**	29867	7.2	47.2	31.9	32.9	62.1	52	4.5	50	11.6
Master's Choice	MCT6733	**2835**	29199	7.4	39.5	25.7	41.6	65.8	55	4.1	56	10.3
Croplan Genetics	5678 VT2P	**2861**	28898	7.2	36.9	24.7	43.9	65.8	53	3.9	58	10.1
Mycogen	F2F 817	**2864**	26063	8.3	39.8	27.0	39.1	66.2	56	4.4	49	9.1
Average		*2786*	*33042*	*7.6*	*40.9*	*27.4*	*37.3*	*65.0*	*54*	*4.7*	*52*	*11.9*

Summary of Quality Factors of Corn Hybrids for Silage
Tifton, Georgia, 2017 (Continued)

		Quality Factors[1]										
		Milk Production[2]									Dry Matter Yield	
Company or Brand Name	Hybrid Name	lbs/ton DM	lbs/acre	Protein[3]	NDF[4]	ADF[5]	Starch[6]	TDN[7]	NDFD48[8]	Ash[9]	Grain Portion	Tifton
				%	%	%	%	%	%	%	%	tons/acre
Short-Season												
Dyna-Gro	D55GT73	**2859**	**37456**	8.5	40.9	27.0	34.6	66.1	55	5.1	55	**13.0**
Augusta Seed	1165VT2PRO	**2889**	35539	7.9	35.5	23.5	45.2	66.3	55	4.1	49	12.3
Dyna-Gro	D55VC45	**2886**	35213	8.1	32.9	22.6	49.5	66.1	53	3.9	53	12.2
Augusta Seed	A9074GT3110	**2691**	34710	7.3	48.0	32.6	29.2	63.6	53	4.9	45	**12.9**
Terral Seed	REV®25BHR26™ Brand	**2707**	33837	8.5	43.3	28.0	32.8	64.1	54	5.6	55	**12.5**
AgriGold	A6572STX	**2942**	33240	7.9	38.8	26.6	39.6	67.0	54	4.1	58	11.2
Terral Seed	REV®23BHR55™ Brand	**2777**	32773	8.3	34.9	23.6	45.1	64.7	52	4.8	58	11.8
DeKalb	DKC 65-94 STX	**2912**	32615	7.8	37.1	25.1	42.0	66.6	54	4.3	59	11.2
AgriGold	A6499STX	**3015**	32256	7.6	37.3	25.3	41.9	68.0	55	3.6	58	10.7
Pioneer	P1442YHR	**2792**	31827	8.2	39.9	25.8	37.3	65.0	53	4.8	54	11.4
Average		*2847*	*33947*	*8.0*	*38.9*	*26.0*	*39.7*	*65.8*	*54*	*4.5*	*54*	*11.9*
Overall Test Statisitics:												
Average		2800[10]	33247[11]	7.7	40.4	27.1	37.9	65.2	54	4.6	52	11.9
LSD at 10% Level		NS[12]	2206	0.9	7.4	4.1	10.5	NS	NS	0.9	4	1.2
Std. Err. of Entry Mean		56	656	0.3	2.2	1.2	3.1	0.8	1	0.3	1	0.5

1. Quality factors taken from the replicated silage trial at Tifton.
2. Calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2006 and reported as lbs milk/ton of dry matter (DM) and lbs milk/acre. Reported values are lower than previous years due to differences between the 2000 and 2006 model predictions, but for hybrid comparisons, the 2006 model should be more accurate.
3. Crude protein expressed as a percentage of dry matter.
4. Neutral detergent fiber: a measure of total fiber components expressed as a percentage of dry matter.
5. Acid detergent fiber: a measure of cellulose and lignin portions of total fiber as a percentage of dry matter.
6. Starch expressed as a percentage of dry matter.
7. Total digestible nutrient: a measure of energy value expressed as a percentage of dry matter.
8. Digestibility of neutral detergent fiber component after 48-hours expressed as a percentage of NDF.
9. Inorganic mineral elements present expressed as a percentage of dry matter.
10. CV = 4.0%, and df for EMS = 43.
11. CV = 3.9%, and df for EMS = 43.
12. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries performing equally to highest performing entry within a column based on Fisher's protected LSD (P = 0.10).

Summary of Nutrient Removal Rates of Corn Hybrids for Silage[1]
Tifton, Georgia, 2017

Company or Brand Name	Hybrid Name	Dry Yield	Nutrients										
			Cl	K	Ca	P	Na	Mg	S	Zn	Fe	Cu	Mn
		tons/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac
Mid-Season													
AgraTech	1778	**13.3**	114	672	123	86	6.8	64	36	0.641	4.1	0.160	0.85
AgraTech	1023VIP	**12.7**	117	613	131	77	6.6	59	35	0.616	3.6	0.154	0.87
AgraTech	908VIP	12.0	108	606	112	76	2.0	53	29	0.585	1.8	0.139	0.70
AgraTech	999 VIP	11.4	93	585	122	78	4.4	59	29	0.553	4.4	0.137	0.72
AgriGold	A6499STX	10.7	88	558	104	74	2.0	51	25	0.522	2.7	0.128	0.66
AgriGold	A6659VT2PRO	11.5	99	523	97	71	2.9	47	27	0.557	2.0	0.135	0.69
AgriGold	A6711VT2PRO	11.9	98	579	111	77	2.8	54	29	0.580	2.5	0.141	0.75
Augusta Seed	7767-3110GT	**12.9**	115	627	116	81	5.8	58	34	0.624	2.3	0.153	0.81
Augusta Seed	7769GT	11.4	99	562	109	74	3.8	52	29	0.551	2.3	0.134	0.66
Augusta Seed	A7668GT3110	11.7	94	589	112	74	4.1	55	29	0.568	2.6	0.139	0.71
Augusta Seed	A9074GT3110	**12.9**	124	610	128	74	6.3	58	35	0.625	2.8	0.155	0.85
Croplan Genetics	5678 VT2P	10.1	87	460	85	62	1.8	41	24	0.492	2.0	0.119	0.60
Croplan Genetics	7927 VT3P	**13.0**	89	579	119	88	3.8	58	30	0.631	4.2	0.151	0.73
Croplan Genetics	S5900 VT2P	**12.4**	104	606	130	79	4.8	60	32	0.600	4.5	0.149	0.76
DeKalb	DKC66-75 VT2P	12.0	94	584	106	83	4.0	53	29	0.581	2.5	0.137	0.68
DeKalb	DKC70-03 VT3P	11.5	100	541	109	75	4.5	54	30	0.560	3.5	0.138	0.74
DeKalb	DKC70-27 VT2P	**12.9**	96	650	120	89	3.3	61	32	0.625	3.6	0.152	0.78
Dyna-Gro	D58QC72	**13.6**	125	671	127	88	5.0	59	36	0.664	3.2	0.164	0.88
Dyna-Gro	D58SS65	10.4	78	509	100	73	2.8	48	26	0.507	3.4	0.123	0.66
Master's Choice	618R	11.7	109	525	92	68	3.0	46	28	0.564	2.1	0.136	0.68
Master's Choice	MCT6653	**13.3**	123	628	113	85	3.8	57	33	0.644	3.4	0.157	0.81
Master's Choice	MCT6733	10.3	88	524	95	70	1.7	50	24	0.500	2.1	0.122	0.60
Mycogen	F2F 817	9.1	86	497	78	71	3.1	47	23	0.442	2.3	0.109	0.59
Mycogen	TMF17L86	12.1	95	558	106	79	3.3	57	29	0.582	3.4	0.144	0.72
Mycogen	TMF17W91	11.6	111	517	82	67	4.6	46	29	0.558	0.8	0.136	0.72
Syngenta	N78S-3111	11.2	98	526	81	71	2.2	46	26	0.541	2.1	0.132	0.66
Syngenta	N83D-3111	11.6	102	585	111	81	2.1	57	28	0.565	3.4	0.138	0.69
T. A. Seeds	TA780-13VPRIB	11.9	111	546	83	69	5.4	49	30	0.573	1.6	0.142	0.73
T. A. Seeds	TA784-13VPRIB	12.0	90	539	107	78	3.2	54	29	0.576	4.0	0.141	0.69
T. A. Seeds	TA787-18	11.4	109	558	104	74	2.9	54	28	0.555	3.2	0.137	0.71

Summary of Nutrient Removal Rates of Corn Hybrids for Silage[1]
Tifton, Georgia, 2017 (Continued)

Company or Brand Name	Hybrid Name	Dry Yield	Nutrients										
			Cl	K	Ca	P	Na	Mg	S	Zn	Fe	Cu	Mn
		tons/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac	lb/ac
Mid-Season (continued)													
T. A. Seeds	X20390	10.9	92	515	95	70	3.6	49	27	0.528	2.0	0.129	0.68
Terral Seed	REV®26BHR50™ Brand	**13.6**	119	671	110	87	7.0	60	36	0.655	3.6	0.164	0.88
Terral Seed	REV®28BHR18™ Brand	11.7	86	529	102	76	2.8	50	26	0.569	2.8	0.136	0.67
Average		11.8	101	571	107	76	3.8	54	29	0.574	2.9	0.140	0.72
Short-Season													
AgriGold	A6572STX	11.3	99	582	106	75	4.0	52	29	0.550	1.7	0.135	0.74
Augusta Seed	1165VT2PRO	12.3	90	602	120	84	1.6	58	28	0.597	3.2	0.145	0.70
DeKalb	DKC 65-94 STX	11.2	96	557	105	74	3.4	52	29	0.543	2.2	0.132	0.70
Dyna-Gro	D55GT73	**13.1**	110	648	131	84	5.3	61	34	0.639	2.9	0.158	0.83
Dyna-Gro	D55VC45	12.2	95	644	124	88	1.3	59	28	0.592	2.4	0.140	0.68
Pioneer	P1442YHR	11.4	101	545	97	73	3.9	46	29	0.551	2.9	0.136	0.70
Pioneer	P1662YHR	12.0	107	611	115	83	2.4	56	29	0.584	3.6	0.142	0.71
Pioneer	P1870YHR	11.5	104	566	103	77	3.9	51	30	0.563	2.7	0.137	0.74
Syngenta NK	N74G-3000GT	**12.9**	109	596	112	79	5.2	56	33	0.621	3.4	0.155	0.79
Terral Seed	REV®23BHR55™ Brand	11.8	104	582	114	82	2.5	55	29	0.574	3.2	0.139	0.70
Terral Seed	REV®25BHR26™ Brand	12.5	128	612	119	79	6.1	55	34	0.609	3.1	0.151	0.82
Average		12.0	104	595	113	80	3.6	55	30	0.584	2.8	0.143	0.74
Overall test statistics:													
Average		11.9 [2]	102	577	108	77	3.8	54	30	0.576	2.9	0.141	0.73
LSD at 10% Level		1.2	19	81	22	9	2.6	7	3	0.007	1.1	0.007	0.08
Std. Err. of Entry Mean		0.5	8	34	9	4	1.1	3	1	0.003	0.5	0.003	0.03

1. Nutrient removal rates taken from 2 reps of silage trial at Tifton. Test conducted under very high fertility conditions, leading to excess uptake of some nutrients. Differences in uptake between varieties may differ in lower fertility environments.
2. CV = 8.6%, and df for EMS = 129

Bolding indicates entries performing equally to highest performing entry within a column based on Fisher's protected LSD (P = 0.10).

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2017, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Mid-Season							
Terral Seed	REV®26HR50™ Brand	**13.6**	30.3	44.9	56	33977	.
Dyna-Gro	D58QC72	**13.6**	33.1	41.2	59	32235	12.4
AgraTech	1778	**13.3**	33.0	40.4	47	34195	.
Masters Choice	MCT6653	**13.3**	30.9	42.9	54	35066	.
Croplan Genetics	7927 VT3P	**13.0**	30.1	43.3	50	34630	12.3
DeKalb	DKC70-27 VT2P	**12.9**	28.7	44.9	52	35284	.
Augusta Seed	7767-3110GT	**12.9**	32.8	39.2	49	33541	.
Augusta Seed	A9074GT3110	**12.9**	33.3	38.7	45	32888	**13.0**
AgraTech	1023VIP	**12.7**	33.8	37.6	42	31363	**13.7**
Croplan Genetics	S5900 VT2P	**12.4**	30.3	41.0	46	32670	**12.8**
Mycogen	TMF17L86	12.1	28.6	42.5	47	33106	11.9
DeKalb	DKC66-75 VT2P	12.0	25.6	46.8	57	34630	.
AgraTech	908VIP	12.0	28.0	42.8	53	33541	10.6
T. A. Seeds	TA784-13VPRIB	12.0	28.3	42.4	50	32670	11.9
T. A. Seeds	TA780-13VPRIB	11.9	26.8	44.5	52	32888	.
AgriGold	A6711VT2PRO	11.9	26.0	45.7	55	33977	.
Terral Seed	REV®28BHR18™ Bran	11.7	26.2	44.5	55	29185	.
Augusta Seed	A7668GT3110	11.7	28.3	41.5	50	33323	12.0
Masters Choice	618R	11.7	27.1	43.0	58	33759	.
Mycogen	TMF17W91	11.6	25.9	44.9	50	34413	.
Syngenta	N83D-3111	11.6	28.9	40.2	52	34195	.
DeKalb	DKC70-03 VT3P	11.5	29.1	39.4	49	31799	.
AgriGold	A6659VT2PRO	11.5	27.9	41.1	52	34848	.
AgraTech	999 VIP	11.4	30.0	37.9	38	32888	10.7
Augusta Seed	7769GT	11.4	27.7	41.1	47	33541	.
T. A. Seeds	TA787-18	11.4	26.7	42.5	50	35066	.
Syngenta	N78S-3111	11.2	27.5	40.7	55	32670	.
T. A. Seeds	X20390	10.9	24.9	43.6	55	32235	.
AgriGold	A6499STX	10.7	24.2	44.1	58	33759	.
Dyna-Gro	D58SS65	10.4	24.2	43.2	54	33541	.
Masters Choice	MCT6733	10.3	23.0	45.0	56	30710	.
Croplan Genetics	5678 VT2P	10.1	24.3	41.7	58	32888	.
Mycogen	F2F 817	9.1	23.8	38.2	49	33106	.
Average		*11.8*	*28.2*	*42.2*	*52*	*33291*	*12.0*

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2017, Irrigated (Continued)

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Short-Season							
Dyna-Gro	D55GT73	**13.1**	31.8	41.1	55	32452	**13.3**
Syngenta NK	N74G-3000GT	**12.9**	30.8	41.9	48	32452	.
Terral Seed	REV®25BHR26™ Bran	**12.5**	30.0	42.0	55	32670	12.3
Augusta Seed	1165VT2PRO	12.3	30.7	40.2	49	35283	.
Dyna-Gro	D55VC45	12.2	27.1	44.9	53	34630	.
Pioneer	P1662YHR	12.0	29.7	40.6	55	33977	.
Terral Seed	REV®23BHR55™ Bran	11.8	29.6	39.9	58	33324	11.7
Pioneer	P1870YHR	11.5	26.3	43.8	56	33977	.
Pioneer	P1442YHR	11.4	24.2	47.1	54	30928	.
AgriGold	A6572STX	11.3	24.4	46.1	58	33977	.
DeKalb	DKC 65-94 STX	11.2	25.3	44.1	59	33541	.
Average		*12.0*	*28.2*	*42.9*	*55*	*33383*	*12.4*
Overall test statistics:							
Average		11.9 [1]	28.1	42.3	52	33314	12.2
LSD at 10% Level		1.2	2.8	1.7	4	NS[2]	0.9
Std. Err. of Entry Mean		0.5	1.2	0.7	1	1118	0.4

1. CV = 8.6%, and df for EMS = 129.
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: March 29, 2017.
Harvested: July 21, 2017.
Seeding Rate: 35,500 seeds per acre in 30-inch rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Medium, K = Medium, and pH = 6.2.
Fertilization: 125 lb N, 185 lb P_2O_5, and 310 lb K_2O/acre as preplant; 10 lb N and 34 lb P_2O_5/acre at planting; 260 lb N/acre as sidedress.
Previous Crop: Peanuts.
Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, and Warrant used for weed control; Telone II used for nematode control; irrigated 17.5 inches.

Test conducted by R. Brooke, D. Dunn, and M. Cofield.

Athens, Georgia:
Evaluation of Corn Hybrids for Silage, 2017, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield[1]
		tons/acre		%	%	no.	tons/acre
Mid-Season							
Terral Seed	REV®26BHR50™ Brand	**10.6**	30.4	35.0	52	31878	.
Mycogen	TMF17W91	**10.1**	28.2	35.8	47	31482	.
DeKalb	DKC66-75 VT2P	**9.6**	26.7	36.1	51	33264	.
DeKalb	DKC70-27 VT2P	**9.6**	28.5	33.6	54	33264	.
DeKalb	DKC70-03 VT3P	9.4	27.2	34.7	49	29700	.
Pioneer	P1870YHR	9.3	27.4	33.8	56	31878	.
Dyna-Gro	D58SS65	9.2	26.9	34.1	55	32472	.
Terral Seed	REV®28BHR18™ Brand	8.9	26.1	33.7	46	25938	.
T. A. Seeds	TA787-18	8.9	26.7	33.3	55	31680	.
Mycogen	F2F 817	8.8	31.5	28.3	42	31482	.
Pioneer	P1662YHR	8.4	24.4	34.6	54	32472	.
Mycogen	TMF17L86	8.3	26.0	32.1	42	31284	**9.7**
Average		*9.3*	*27.5*	*33.8*	*50*	*31400*	*9.7*
Short-Season							
Terral Seed	REV®23BHR55™ Brand	9.3	32.0	29.2	55	33264	**9.4**
Terral Seed	REV®25BHR26™ Brand	9.2	29.6	31.0	56	33066	**10.6**
DeKalb	DKC 65-94 STX	8.8	25.4	34.8	63	32868	.
Pioneer	P1442YHR	8.8	25.9	34.1	54	32472	.
T. A. Seeds	TA780-13VPRIB	8.5	24.2	34.7	54	30492	.
Average		*8.9*	*27.4*	*32.8*	*56*	*32432*	*10.0*
Overall test statistics:							
Average		9.1 [2]	27.5	33.5	52	31703	10
LSD at 10% Level		1.1	3.3	3.1	5	1710	NS[3]
Std. Err. of Entry Mean		0.5	1.4	1.3	2	721	0.4

1. 2-year data comprised of Athens 2017 and Griffin 2016 trials.
2. CV = 10.1%, and df for EMS = 48.
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 13, 2017.
Harvested: August 1, 2017.
Seeding Rate: 34,000 seeds per acre in 30-inch rows.
Soil Type: Masada A/Wickham sandy loam.
Soil Test: P = Medium, K = High, and pH = 6,1.
Fertilization: 38.5 lb N, 182 lb P_2O_5, and 210 lb K_2O/acre as preplant; 278 N/acre as sidedress; 1,500 lb dolomitic lime/acre.
Previous Crop: Cotton.
Management: Disked and rototilled; Atrazine and Zidua used for weed control; irrigated 3.0 inches.

Test conducted by H. Jordan, G. Ware, J. Cartey, J. Griffin, and K. Roach.

Calhoun, Georgia:
Evaluation of Corn Hybrids for Silage, 2017, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		Dry	Green				
		tons/acre		%	%	no.	tons/acre

A corn silage trial was planted at this location on May 3, 2017. However, stand problems at harvest increased variability in and among plots. After careful analysis and review of the data, it is the opinion of the editors that the results of this trial may not accurately reflect the genetic performance potential of all the test entries. Since this data is not useful for making decisions and could be misleading if used in making variety selections, it will not be presented in the publication.

Blairsville, Georgia:
Evaluation of Corn Hybrids for Silage, 2017, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Mid-Season							
DeKalb	DKC70-27 VT2P	**14.8**	35.6	41.6	49	33961	.
T. A. Seeds	TA784-13VPRIB	12.4	33.0	37.7	45	30492	**12.4**
DeKalb	DKC70-03 VT3P	11.9	33.3	35.8	49	31680	.
Terral Seed	REV®28BHR18™ Brand	11.7	32.8	35.5	50	27918	.
DeKalb	DKC66-75 VT2P	11.3	33.0	34.0	48	33066	.
Pioneer	P1662YHR	11.0	33.4	32.9	50	33660	.
T. A. Seeds	TA787-18	10.6	33.3	31.7	49	33066	.
Pioneer	P1870YHR	10.5	33.1	31.9	51	32868	.
Dyna-Gro	D58SS65	9.7	27.3	35.6	49	33462	.
Mycogen	F2F 817	8.9	26.8	32.9	46	31680	.
Average		*11.3*	*32.2*	*35.0*	*49*	*32185*	12.4
Short-Season							
Mycogen	TMF14L46	**13.3**	36.8	36.0	43	33858	**12.6**
Terral Seed	REV®25BHR26™ Brand	11.9	36.1	33.0	53	33264	**11.8**
Terral Seed	REV®23BHR55™ Brand	11.7	37.4	31.3	48	33066	**11.5**
T. A. Seeds	TA780-13VPRIB	11.7	29.8	39.2	51	31680	.
Pioneer	P1442YHR	10.4	27.1	38.9	51	31086	.
Mycogen	TMF12Q57	10.2	28.4	36.0	47	32670	.
DeKalb	DKC 65-94 STX	9.4	26.1	35.9	53	32670	.
Average		*11.2*	*31.7*	*35.8*	*49*	*32613*	*12.0*
Overall test statistics:							
Average		11.3 [1]	31.9	35.3	49	32362	12.1
LSD at 10% Level		2.1	3.2	5.0	3	2161	NS[2]
Std. Err. of Entry Mean		0.9	1.3	2.1	1	911	0.6

1. CV = 15.6%, and df for EMS = 48.
2. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted: April 29, 2017.
Harvested: September 7, 2017.
Seeding Rate: 34,900 seeds per acre in 30-inch rows.
Soil Type: Suches loam.
Soil Test: P = High, K = Very High, and pH = 6.0.
Fertilization: 154 lb N, 183 lb P_2O_5, and 10 lb K_2O/acre as preplant; 227 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed and disked; Accent Q and Callisto used for weed control.

Test conducted by H. Jordan and G. Ware.

Insect Screening Results

Multiple Insect Resistance in 59 Commercial Corn Hybrids, 2017

Xinzhi Ni, Michael D. Toews, and G. David Buntin

Commercial corn hybrids were screened for ear- and kernel-feeding insect resistance under field conditions at Tifton, Georgia. Nine hybrids were rated Very Good (VG), the highest rating for multiple insect resistance in 2017 (see following table). Thirteen hybrids were Good (G), 19 were Fair (F), and 13 were Poor (P). One hybrid included a blend of 80% transgenic and 20% non-transgenic seeds, known as refuge in a bag (RIB). In cotton growing area and all of Georgia, RIB products are required to have a 20% Non-Bt structured refuge. Three hybrids were developed utilizing YHR traits (also known as Optimum® Intrasect™), 13 hybrids have Genuity VT Double PRO (VT2P) traits, and 1 hybrid has VT Triple PRO (VT3P) traits. The Optimum® Intrasect™ insect protection traits (or YHR) include a combination of two insect protection traits – Herculex® I and YieldGard® Corn Borer, while the VT2P or VT3P traits contain a stack of two or three Bt genes. VT2P hybrids targeted foliar- and ear-feeding lepidopteran pests, while VT3P hybrids have an additional Bt gene for rootworms.

Overall insect damage on corn ears was relatively high in the 2017 trial, which is comparable to what was observed in 2016. The six types of ear- and/or kernel-feeding insects in the order of damage severity were corn earworm and fall armyworm, stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil. Corn earworm and fall armyworm damage was combined because the damage on corn cob is difficult to separate. Feeding penetration by these caterpillar pests of natural infestations in corn ears was between 0.2 and 2.8 cm, which was lower than the damage observed in 2016 (0.2-3.5 cm). Multiple species of sap beetles were recorded in 2017. Stink bug damage in 2017 was relatively low, ranging from 0.1 to 1.6% of the kernels per ear, which was less than that in 2016, 0.1 to 1.4%. Sap beetle damaged kernels were 0.7-4.1%, which is greater than 0.2-2.4% in 2016, as well as pink scavenger caterpillar damaged kernels were <1% in 2017 and 2016. In addition, flowering time of all entries were similar (between 51 and 57 days after planting), irrespective of categorization of Short (S) or Medium (M) maturity as shown in the table. Relatively early flowering (50-57 days after planting) was observed in 2017, which is similar to what we observed in 2016.

Because husk tightness and husk extension are considered important traits for ear- and kernel-feeding insect resistance, the husk features of the sampled ears were examined. Husk tightness was assigned using a scale of 1 to 5, in which 1 = very loose and 5 = very tight. Average ratings for husk tightness were between 3.4 and 4, which were all considered medium for husk tightness. Husk extension ranged between 0.1 and 5.3 cm, and was negatively correlated to worm penetration and percentage of sap-beetle-damaged kernels in corn ears, but not to husk tightness. Multiple insect resistance was categorized in four groups according to the insect damage ratings on corn cobs and kernels: they are very good (VG), good (G), fair (F), and poor (P). VG represents the least amount of insect damage, while P represents the greatest amount of insect damage. The rankings of the 59 hybrids for multiple insect resistance in the table was based on the results of the principal component analysis using corn husk extension and tightness along with damage caused by corn earworm and fall armyworm, stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil. The lettered

ratings in the table refer only to relative resistance to insects, and are based on a principal component analysis with husk tightness and extension, corn earworm and fall armyworm damage, and stink bug, sap beetle, and pink scavenger caterpillar damage. The data in this report are not indicative of yield. For yield data of a hybrid, please refer to other reports provided in this publication.

Hybrids resistant to multiple insects are highly recommended for planting and are one of the most economical insect management strategies, especially in late plantings. Increased insect damage can lead to yield loss, as well as quality loss related to aflatoxin contamination. Consult with your local county agent and/or Extension entomologist for additional control recommendations for a specific pest in your area.

The trial was planted on the University of Georgia Gibbs Research Farm near Tifton, Georgia on April 11, 2017, and harvested on August 3, 2017. The experimental plots were thinned to 20,000 plants per acre and maintained following local Extension-publication-recommended agronomic practices by Penny Tapp (USDA-ARS, Tifton). The data were collected by Penny Tapp, Henry Deems, and Ashleigh Burgess (USDA-ARS, Tifton).

Ear-Feeding Insect Resistance in 59 Commercial Corn Hybrids, Tifton, Georgia, 2017

Company or Brand Name	Hybrid Name	Days to Anthesis[1]	Husk Extension	Husk Tightness[2]	2017 FAW+CEW Damage[3]	Overall Resistance to Insect Damage[4]	
						2017	2 or more years
			cm	rating	cm		
Mid-Season[5]							
Terral Seed	REV®26BHR50™ Brand	56	2.25	M	0.78	VG	G+
T.A. Seed	TA765-30	56	3.25	M	0.33	VG	G+
AgraTech	908VIP	56	1.30	M	0.48	VG	F+
Pioneer	P1870YHR	54	1.60	M	0.73	VG	
MorCorn	MC4725	55	2.50	M	1.08	VG	
Syngenta NK	N78S-3111	54	2.95	M	1.28	VG	
Syngenta NK	N83D-3111	56	0.90	T	0.55	VG	
T.A. Seed	X20544	54	2.10	M	1.03	VG	
AgraTech	1778	56	3.80	M	0.55	VG	
Pioneer	P1916YHR	55	4.40	M	0.35	G	VG-
Dyna-Gro	D58VC37	53	2.80	M	0.68	G	VG-
Phoenix	6542	55	2.45	M	0.55	G	
DeKalb	DKC 70-27 VT2P	54	1.45	M	0.95	G	F+
Augusta	7767VT2PRO	53	4.75	M	0.95	G	G
Augusta	7766VT2PRO	52	4.85	M	0.45	G	G
Croplan	5678 VT2P	55	1.70	M	1.15	G	
Terral Seed	REV®28BHR18™ Brand	55	1.65	M	1.38	G	
Pioneer	P1662YHR	53	1.20	M	1.15	G	
Armor	1717	54	1.95	M	1.28	G	
Armor	AXT7116	54	4.60	M	1.35	G	
Armor	AXC7118	54	1.40	M	1.58	G	
T.A. Seed	TA774-22DPRIB	53	5.75	M	0.85	G	
AgriGold	A6659VT2PRO	53	1.45	M	1.58	G	
AgriGold	A6711VT2PRO	54	4.45	M	0.53	G	
T.A. Seed	X20543	54	1.60	T	0.95	G	
T.A. Seed	X20545	54	4.30	M	0.50	G	
T.A. Seed	X20546	54	1.45	M	1.38	G	
AgraTech	85VT2P	56	1.30	M	1.18	G	
AgraTech	75VT2P	54	1.60	M	1.08	G	
T.A. Seed	X20390	53	1.40	M	1.18	F	
Dyna-Gro	D58VC65	54	2.05	M	1.30	F	
Phoenix	7402	55	1.40	M	1.45	F	
T.A. Seed	TA787-18	54	2.10	M	1.88	F	
Dyna-Gro	D57VP51	52	1.45	T	2.83	P	P
DeKalb	DKC 67-44 VT2P	54	0.15	M	2.63	P	F-

Ear-Feeding Insect Resistance in 59 Commercial Corn Hybrids, Tifton, Georgia, 2017 (Continued)

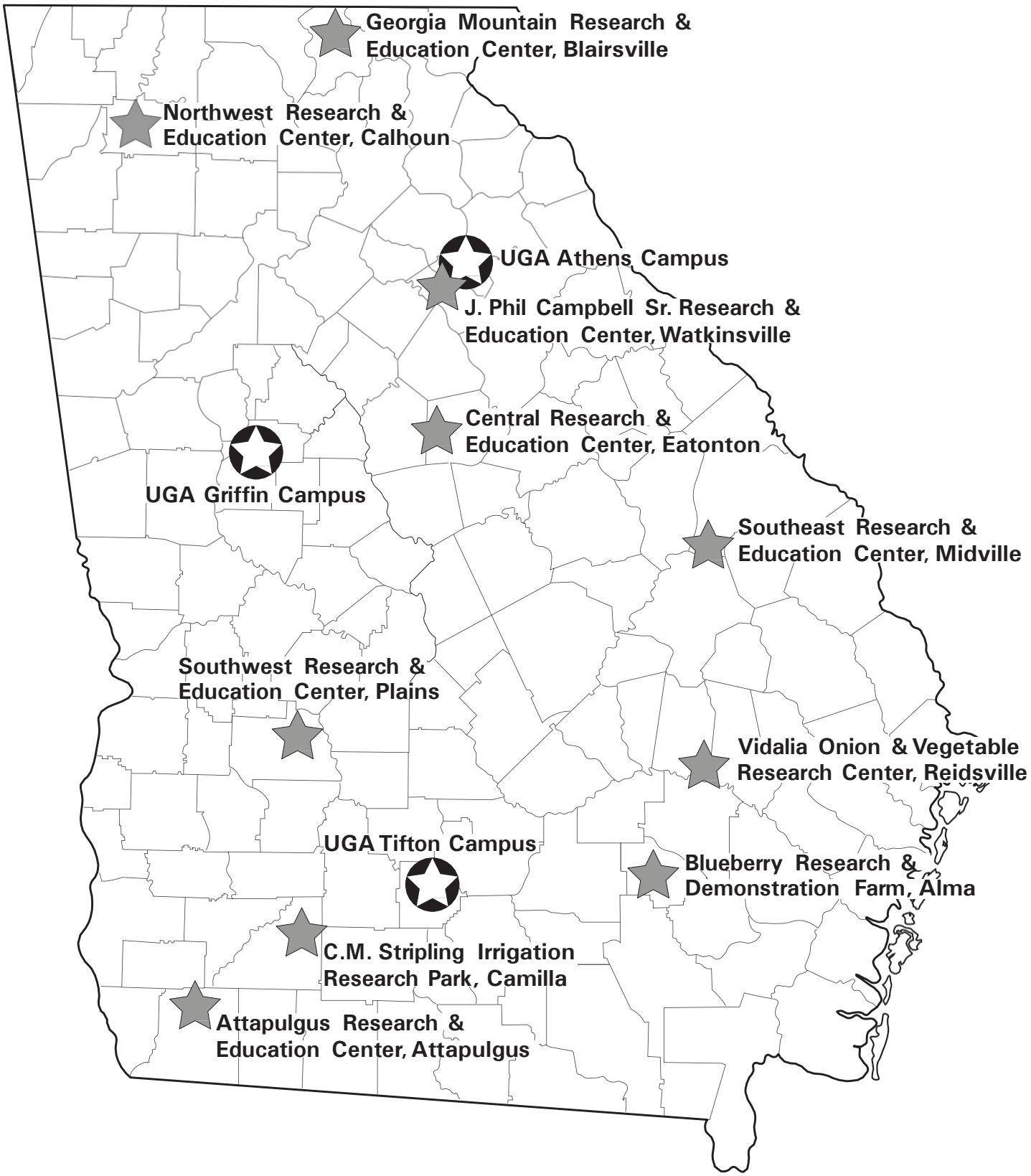
Company or Brand Name	Hybrid Name	Days to Anthesis[1]	Husk Extension	Husk Tightness[2]	2017 FAW+CEW Damage[3]	Overall Resistance to Insect Damage[4]	
						2017	2 or more years
			cm	rating	cm		
Short-Season[5]							
Terral Seed	REV®25 BHR26™ Brand	56	2.65	M	1.05	VG	F+
Armor	1500	54	1.85	M	0.78	VG	
Dyna-Gro	D49VC39	53	2.15	M	0.20	VG	
Dyna-Gro	CX17212	54	2.20	T	0.58	VG	
AgraTech	65VT2P	54	1.90	M	0.53	VG	
Augusta	1165VT2PRO	54	3.80	M	0.48	VG	
Croplan	6640 VT3P	54	2.00	M	1.45	G	G
T.A. Seed	TA744-22DP	53	2.40	M	0.40	G	G+
Armor	1414	53	3.90	M	0.68	G	G
Armor	AXC7114	54	1.53	T	1.47	G	
Armor	AXC7115	54	1.10	M	1.05	G	
Dyna-Gro	D50VC30	52	2.15	M	1.00	G	
MorCorn	MC4319	54	1.75	M	1.00	G	
Augusta	6664VT2PRO	54	4.20	M	0.78	G	
Augusta	5065GTCBLL	56	3.05	M	0.95	G	
Terral Seed	REV®23BHR55™ Brand	55	2.05	M	2.18	F	F
DeKalb	DKC 64-35 VT2P	54	0.80	M	1.45	F	F-
Dyna-Gro	D52VC50	53	1.40	M	1.50	F	
AgriGold	A6499STX	55	1.70	M	0.93	F	
AgriGold	A6572STX	53	1.05	M	1.38	F	
DeKalb	DKC 65-94 STX	54	1.65	M	1.43	F	
Syngenta NK	N76A-3010	53	1.40	M	2.53	P	P
Dyna-Gro	D55VC45	53	0.85	M	1.95	P	
Augusta	1564GT3000	55	1.50	M	1.88	P	

1. Days to anthesis is the number of days to flowering at Tifton, Georgia in 2017 after the hybrids were planted on April 11, 2017 (n = 4).
2. Husk Tightness: L = loose husk, M = medium-tight husk, and T = tight husk.
3. FAW+CEW damage denotes the ear penetration (cm) by corn earworm (CEW) and fall armyworm (FAW) feeding with natural infestation.
4. Categorization of insect resistance to key ear- and kernel-feeding insects (i.e., corn earworm, fall armyworm, stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil) was based on principal component analysis results. The data were collected from 20 ears per hybrid (5 ears x 4 replications), where VG = very good, G = good, F = fair, and P = poor. The + and - signs denote the fluctuation of damage ratings in recent (two or more) years.
5. Maturity denotes short or medium season maturity of a hybrid, which was provided by the seed company.

Sources of Seed for the 2017 Corn Hybrid Tests

Company or Brand Name	Seed Source
AgraTech	Grabow Seed Services, Inc., 6830 Lisa Lane, Dunwoody, GA 30338
AgriGold	AgriGold, 5381 Akin Road, St. Francisville, IL 62460
Armor	Armor Seed, 2532 B Alexander Drive, Jonesboro, AR 72401
Augusta Seed	Augusta Seed, P.O. Box 899, Verona, VA 24482
Croplan Genetics	Winfield Solutions, 615 McCardle Road, Dothan, AL 36303
DeKalb	Monsanto Company, 800 N. Lindberg Blvd., St. Louis, MO 63167
Dyna-Gro	Crop Production Services, 100 Industrial Court, Colquitt, GA 39838
Masters Choice	Masters Choice, 305 West Vienna, Anna, IL 62906
MorCorn, Phoenix	SeedKoz, 1725 Windward Concorse, Suite 410, Alpharetta, GA 30005
Mycogen	Mycogen Seed, 24 Surrey Circle, Tifton, GA 31793
Pioneer	Dupont Pioneer, 425 Abbeydale Way, Columbia, SC 29229
Syngenta, Syngenta NK	Syngenta NK Brand Seeds, 207 Leland Ferrell Drive, Leesburg, GA 31763
T.A. Seeds	T.A. Seeds, 39 Seeds Lane, Jersey Shore, PA 17740
Terral Seed	Terral Seed, Inc., 111 Ellington Drive, Rayville, LA 71269

NOTES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