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Georgia

2016 Corn Performance Tests

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Editors



Conversion Table

U.S. <i>Abbr.</i>	<i>Unit</i>	<i>Approximate Metric Equivalent</i>
Length		
mi	mile	1.609 kilometers
yd	yard	0.9144 meters
ft or ' in or "	foot inch	30.48 centimeters 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 <i>Abbr.</i>	<i>Unit</i>	<i>Approximate U.S. Equivalent</i>
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 x 10 ⁻⁵ ounce



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PREFACE

In this research report, the results of the 2016 corn performance trials are presented. Corn performance trials were conducted at six locations throughout Georgia (see map inside back cover) in 2016. Short-season and mid-season hybrids were planted at Tifton, Plains, and Midville in the Coastal Plain region, at Griffin 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, Griffin, 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. 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: 2015-2016 Small Grain Performance Tests (Annual Publication 100-8); the 2015 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication 103-7); the 2015 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication 104-7), 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 John D. Gassett, Crop and Soil Sciences Department, University of Georgia, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.

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2016 Corn Performance Tests

Edited by
John D. Gassett, Dustin G. Dunn,
Henry Jordan Jr., and J. LaDon Day

The Season

In 2016, Georgia corn producers were faced with planting conditions similar to those of the past three years, with abundant soil moisture and excessive rainfall in some areas. Rain and cool temperatures through February, March, and April delayed planting throughout some areas of the state. As the season progressed, irrigation became a concern for many producers in Georgia. The area around Plains and the northern region of the state turned out hot and dry in July, while this was not the case for other areas of the Coastal Plain region of the state. Corn drowning out early in the season and leaching of nutrients were concerns again this year. Southern corn rust was a major concern for growers in the southern area of the state for a second year in a row, but did not make it far north due to the inactive tropical storm season.

Seasonal rainfall totals, as shown in the table below, were below normal for all the locations except for Midville and Tifton. Midville and Tifton received 4.49 inches and 6.20 inches more rainfall than normal, respectively. Calhoun, Griffin, Plains, and Blairsville received a range of 9.65 to 11.82 inches less than normal rainfall in 2016. In summary, four out of six Georgia locations were approximately 10 inches shy of normal rainfall for this year.

Growing Season Rainfall¹, 2016

Month	Blairsville	Calhoun ²	Griffin	Midville	Plains	Tifton
	----- inches -----					
February	8.39	6.42	4.23	5.24	3.71	5.51
March	2.36	4.33	3.36	2.83	2.39	5.26
April	2.89	2.38	4.94	3.95	4.57	6.34
May	2.18	1.79	3.61	4.22	0.84	1.45
June	2.32	4.16	1.00	3.94	4.02	3.94
July	3.00	2.06	2.49	6.20	1.59	3.38
August	4.30	6.86	3.15	3.88	4.66	6.31
September	1.24	0.42	1.91	4.88	2.20	6.16
<i>Total (8 mo)</i>	26.68	28.42	24.69	35.14	23.98	38.35
<i>Normal (8 mo)</i>	38.37	34.34	30.65	33.69	32.15	38.50

1. Data submitted by Dr. I. Flitcroft, Georgia Station, Griffin, Ga.

2. Floyd County location.

John D. Gassett 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, Griffin Campus, Griffin, Georgia 30223-1797. Dustin G. Dunn is a research professional III in the Crop and Soil Sciences Department, Tifton Campus, Tifton, Georgia 31793-5766.

Total acreage of corn planting for grain in Georgia was 400,000 acres, a 21% increase over last year. 355,000 acres of corn grain were harvested. According to the USDA NASS Website, 175 bu/ac of corn were produced this year for a total of 62.125 million bushels, a 22% increase or 13.39 million bushels more than 2015. Current year corn silage acres are not available at this time, but there has been a range of 30,000 and 50,000 acres harvested per year over that past 5 years. Corn silage production in Georgia has varied from 19 to 22 tons per acre for a total of 630,000 to 950,000 tons for the last five years.

Grain Tests Results

Coastal Plain Region

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2016

Company or Brand Name	Variety	Yield					
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	Irrigated Average
		----- bu/acre -----					
Mid-Season							
Dyna-Gro	D57VP51	257.5	176.9	327.6	264.6	261.1	284.4
Terral Seed	REV®26BHR50™ Brand	251.6	142.7	330.4	278.6	254.7	287.9
DeKalb	DKC70-27 GENVT2P	247.9	172.2	301.8	265.8	252.0	273.2
Pioneer	P1794VYHR	246.6	166.5	317.1	260.2	242.5	273.3
Winfield	5678 VT2P	246.0	168.5	301.8	247.6	266.1	271.8
Augusta Seed	A7766VT2PRO	243.7	165.5	313.1	250.5	245.9	269.8
Terral Seed	REV®28HR20™ Brand	243.7	138.7	302.8	265.1	268.1	278.7
Dyna-Gro	D58VC37	240.8	152.8	294.9	272.7	242.8	270.1
Mycogen	2D848	239.0	161.8	293.2	246.8	254.4	264.8
Augusta Seed	A7767VT2PRO	236.8	153.4	309.3	243.0	241.3	264.5
Croplan Genetics	8621 VT2P	235.1	150.1	289.2	254.2	246.9	263.4
T. A. Seeds	TA774-22DPRIB	234.0	160.8	290.9	244.8	239.6	258.4
DeKalb	DKC67-44 GENVT2P	232.1	148.6	260.5	268.4	250.9	259.9
Dyna-Gro	CX 16118	231.5	144.5	277.5	257.4	246.5	260.4
Syngenta NK	N83D-3000GT	229.2	145.7	284.4	252.2	234.5	257.0
Pioneer	P1916YHR	226.8	142.0	280.6	234.6	250.0	255.1
T. A. Seeds	TA784-13VPRIB	223.6	139.9	278.5	240.8	235.2	251.5
Augusta Seed	A8868VT3PRO	222.3	129.2	281.3	245.3	233.3	253.3
Pioneer	P1443YHR	221.6	153.7	257.8	243.5	231.6	244.3
AgraTech	903VIP	221.1	130.8	299.3	260.7	193.5	251.2
DeKalb	DKC66-75 GENVT2P	219.9	103.2	277.9	258.9	239.9	258.9
AgraTech	966VT2PRO	218.0	139.9	284.7	222.0	225.5	244.1
T. A. Seeds	TA790-31	207.8	126.8	285.1	231.0	188.3	234.8
Augusta Seed	A7768GT3110	193.0	122.8	285.2	241.3	122.6	216.4
Average		232.1	147.4	292.7	252.1	236.1	260.3
LSD at 10% Level		10.0	22.0	21.0	16.3	21.2	11.2
Std. Err. of Entry Mean		4.3	9.3	8.9	6.9	9.0	4.8

**Coastal Plain Region of Georgia:
Summary of Corn Hybrid Performance, 2016 (Continued)**

Company or Brand Name	Variety	Yield					Irrigated Average
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	
		----- bu/acre -----					
Short-Season							
Croplan Genetics	6640 VT3P	237.3	160.9	317.4	253.6	217.3	262.8
Terral Seed	REV®25BHR44™ Brand	235.1	145.4	324.6	258.0	212.2	264.9
Terral Seed	REV®23BHR55™ Brand	234.7	134.3	312.4	265.9	226.3	268.2
Terral Seed	REV®25BHR26™ Brand	233.0	136.6	300.5	262.7	232.2	265.1
Pioneer	P1197YHR	228.5	117.7	303.6	262.3	230.5	265.5
Syngenta	N76A-3000A	226.4	138.2	297.7	247.2	222.4	255.8
T. A. Seeds	TA765-30	224.8	118.6	316.7	255.1	208.9	260.2
Winfield	5290 VT2P	221.4	131.6	273.5	256.2	224.3	251.3
T. A. Seeds	TA744-22DP PRIB	221.0	125.7	292.6	249.2	216.6	252.8
AgraTech	1777VIP	216.5	108.1	304.2	251.1	202.8	252.7
Pioneer	P1303HR	216.4	122.6	275.0	255.8	212.3	247.7
Augusta Seed	A1565GTCBLL	216.1	151.0	285.6	218.6	209.2	237.8
Mycogen	MY13M87	215.9	134.6	266.4	233.0	229.6	243.0
Dyna-Gro	D55VP77	214.7	112.2	288.4	237.8	220.6	248.9
Syngenta	N68K-3111A	212.7	159.1	261.6	219.3	210.7	230.5
Croplan Genetics	5570 VT2P	212.0	111.8	275.8	239.0	221.3	245.4
Dyna-Gro	D54VC52	210.5	80.4	277.8	263.1	220.6	253.8
Mycogen	MY12G38	208.5	113.8	244.4	248.2	227.5	240.0
DeKalb	DKC64-35 GENVT2P	207.2	111.9	271.7	235.6	209.8	239.0
Mycogen	MY13A35	204.0	110.0	273.5	233.7	198.9	235.4
Syngenta	N69D-3000GT	200.8	119.7	259.1	229.1	195.2	227.8
Average		218.9	125.9	286.8	246.4	216.6	249.9
LSD at 10% Level		8.0	18.4	13.4	17.1	15.4	8.8
Std. Err. of Entry Mean		3.4	7.8	5.7	7.2	6.5	3.8

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, 2016, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg bu/acre	3-Yr Avg						
Croplan Genetics	6640 VT3P	160.9	146.4	156.0	100	0.35	2.3	15.9	25918	99
Syngenta	N68K-3111A	159.1	.	.	97	0.36	2.8	15.3	25809	99
Augusta Seed	A1565GTCBLL	151.0	.	.	100	0.34	2.8	16.3	25374	97
Terral Seed	REV@25BHR44™ Brand	145.4	133.7	147.4	98	0.33	1.5	17.6	26027	100
Syngenta	N76A-3000A	138.2	.	.	98	0.32	3.3	16.9	25156	92
Terral Seed	REV@25BHR26™ Brand	136.6	127.8	.	99	0.30	1.8	15.6	25809	100
Mycogen	MY13M87	134.6	.	.	100	0.30	2.3	16.3	25592	100
Terral Seed	REV@23BHR55™ Brand	134.3	126.3	131.8	100	0.30	2.3	15.7	25156	100
Winfield	5290 VT2P	131.6	.	.	101	0.29	1.8	15.3	25265	100
T. A. Seeds	TA744-22DP PRIB	125.7	.	.	98	0.28	2.0	16.0	25809	100
Pioneer	P1303HR	122.6	.	.	99	0.27	1.0	15.9	25701	100
Syngenta	N69D-3000GT	119.7	.	.	100	0.28	2.0	16.2	24285	100
T. A. Seeds	TA765-30	118.6	125.4	.	102	0.25	1.8	16.1	25592	100
Pioneer	P1197YHR	117.7	121.6	.	99	0.26	2.8	14.5	25809	100
Mycogen	MY12G38	113.8	.	.	100	0.25	2.0	16.8	25592	100
Dyna-Gro	D55VP77	112.2	107.2	120.4	98	0.25	2.3	15.0	25701	100
DeKalb	DKC64-35 GENVT2P	111.9	.	.	97	0.27	2.3	14.0	23849	100
Croplan Genetics	5570 VT2P	111.8	111.8	.	96	0.27	2.0	15.9	24938	100
Mycogen	MY13A35	110.0	.	.	97	0.26	2.5	14.3	24503	89
AgraTech	1777VIP	108.1	113.5	125.1	99	0.25	2.3	16.2	24394	100
Dyna-Gro	D54VC52	80.4	.	.	87	0.21	2.8	16.6	24829	99
Average		125.9 ⁴	123.7	136.2	98	0.28	2.2	15.8	25291	99
LSD at 10% Level		18.4	N.S. ⁵	11.3	N.S.	0.04	0.6	1.1	N.S.	3
Std. Err. of Entry Mean		7.8	5.8	4.7	2	0.02	0.2	0.5	512	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 12.4%, and df for EMS = 60.
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 22, 2016.

Harvested: August 15, 2016.

Seeding Rate: 26,500 seeds per acre in 30-inch rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.6.

Fertilization: 60 lb N, 0 lb P₂O₅, and 100 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 130 lb N/acre as sidedress.

Previous Crop: Fallow.

Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, Warrant, Accent, and Basagran used for weed control; Telone II used for nematode control.

Test conducted by D. Dunn, R. Brooke, and G. South.

Tifton, Georgia: Mid-Season Corn Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Dyna-Gro	D57VP51	176.9	175.6	174.6	99	0.38	1.8	14.7	25991	100
DeKalb	DKC70-27 GENVT2P	172.2	.	.	102	0.36	2.3	16.4	26427	100
Winfield	5678 VT2P	168.5	.	.	99	0.36	1.8	15.2	25991	100
Pioneer	P1794VYHR	166.5	157.0	162.6	101	0.34	1.8	14.8	26717	100
Augusta Seed	A7766VT2PRO	165.5	.	.	101	0.35	2.5	15.8	25991	100
Mycogen	2D848	161.8	150.5	.	103	0.37	1.8	18.4	24829	100
T. A. Seeds	TA774-22DPRIB	160.8	.	.	99	0.35	2.3	14.8	25555	100
Pioneer	P1443YHR	153.7	.	.	100	0.33	2.8	14.1	25991	100
Augusta Seed	A7767VT2PRO	153.4	.	.	98	0.34	2.0	15.4	25555	100
Dyna-Gro	D58VC37	152.8	161.4	.	98	0.33	2.0	14.7	25846	99
Croplan Genetics	8621 VT2P	150.1	151.1	149.0	100	0.32	2.3	14.9	25700	100
DeKalb	DKC67-44 GENVT2P	148.6	.	.	98	0.34	2.0	16.7	25410	100
Syngenta NK	N83D-3000GT	145.7	139.5	148.4	99	0.34	3.0	16.3	24539	100
Dyna-Gro	CX 16118	144.5	.	.	98	0.32	1.8	15.7	25700	100
Terral Seed	REV@26BHR50™ Brand	142.7	140.9	147.8	99	0.31	1.3	16.1	25991	100
Pioneer	P1916YHR	142.0	144.1	.	98	0.36	2.3	17.8	23232	98
AgraTech	966VT2PRO	139.9	.	.	96	0.34	1.5	15.5	23813	99
T. A. Seeds	TA784-13VPRIB	139.9	129.9	134.9	98	0.34	2.8	15.9	23668	99
Terral Seed	REV@28HR20™ Brand	138.7	139.1	147.0	99	0.32	1.5	16.5	25410	100
AgraTech	903VIP	130.8	.	.	98	0.30	2.5	15.9	24829	94
Augusta Seed	A8868VT3PRO	129.2	.	.	98	0.30	2.5	15.2	24248	99
T. A. Seeds	TA790-31	126.8	110.3	126.5	100	0.28	2.8	15.6	25410	95
Augusta Seed	A7768GT3110	122.8	.	.	100	0.28	2.5	16.1	24974	92
DeKalb	DKC66-75 GENVT2P	103.2	.	.	93	0.24	2.3	14.4	25265	100
Average		147.4 ⁴	145.4	148.9	99	0.33	2.1	15.7	25295	99
LSD at 10% Level		22.0	16.8	12.1	3	0.05	0.7	1	1443	3
Std. Err. of Entry Mean		9.3	6.6	4.9	1	0.02	0.3	0.4	608	1

1. Yields calculated at 15.5% moisture.

2. Grain quality rating: 1 = excellent to 5 = poor.

3. Grain moisture at harvest.

4. CV = 10.9%, and df for EMS = 46.

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

Planted: March 22, 2016.

Harvested: August 15, 2016.

Seeding Rate: 27,000 seeds per acre in 30-inch rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.6.

Fertilization: 60 lb N, 0 lb P₂O₅, and 100 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 130 lb N/acre as sidedress.

Previous Crop: Fallow.

Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, Warrant, Accent, and Basagran used for weed control; Telone II used for nematode control.

Test conducted by D. Dunn, R. Brooke, and G. South.

Tifton, Georgia: Short-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Terral Seed	REV®25BHR44™ Brand	324.6	322.5	293.4	104	0.53	1.3	19.9	34630	100
Croplan Genetics	6640 VT3P	317.4	298.3	265.8	102	0.53	1.8	18.4	34086	100
T. A. Seeds	TA765-30	316.7	311.5	.	100	0.54	1.3	18.6	34195	100
Terral Seed	REV®23BHR55™ Brand	312.4	305.6	277.2	101	0.54	2.0	18.3	33214	100
AgraTech	1777VIP	304.2	303.6	267.9	100	0.52	1.0	18.5	33977	100
Pioneer	P1197YHR	303.6	293.8	.	106	0.47	2.0	17.5	34848	100
Terral Seed	REV®25BHR26™ Brand	300.5	288.6	.	100	0.54	1.3	18.0	32126	100
Syngenta	N76A-3000A	297.7	.	.	102	0.51	2.8	19.2	33868	100
T. A. Seeds	TA744-22DP PRIB	292.6	.	.	101	0.50	1.8	18.6	33541	100
Dyna-Gro	D55VP77	288.4	290.9	264.9	102	0.47	1.3	18.3	34630	100
Augusta Seed	A1565GTCBLL	285.6	.	.	104	0.47	1.8	19.0	34304	100
Dyna-Gro	D54VC52	277.8	.	.	99	0.48	1.5	19.4	34086	100
Croplan Genetics	5570 VT2P	275.8	274.4	.	101	0.49	1.5	19.5	32888	100
Pioneer	P1303HR	275.0	.	.	102	0.46	1.0	17.5	33868	100
Winfield	5290 VT2P	273.5	.	.	101	0.46	1.3	18.5	34086	99
Mycogen	MY13A35	273.5	.	.	100	0.52	1.5	20.2	31581	100
DeKalb	DKC64-35 GENVT2P	271.7	.	.	102	0.46	1.8	19.3	33759	100
Mycogen	MY13M87	266.4	.	.	101	0.46	1.5	20.7	33977	100
Syngenta	N68K-3111A	261.6	.	.	107	0.41	2.3	17.6	34630	100
Syngenta	N69D-3000GT	259.1	.	.	100	0.46	2.0	18.8	32452	98
Mycogen	MY12G38	244.4	.	.	99	0.44	2.3	21.7	33977	100
Average		286.8 ⁴	298.8	273.9	101	0.49	1.6	18.9	33749	100
LSD at 10% Level		13.4	12.7	13.0	3	0.02	0.5	0.6	1435	-
Std. Err. of Entry Mean		5.7	5.3	5.4	1	0.01	0.2	0.2	607	-

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 3.9%, and df for EMS = 60.

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

Planted: March 23, 2016.
Harvested: August 11, 2016.
Seeding Rate: 35,000 seeds per acre in 30-inch rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.4.
Fertilization: 125 lb N, 156 lb P₂O₅, and 290 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 260 lb N/acre as sidedress.
Previous Crop: Peanuts.
Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, Warrant, Accent, and Basagran used for weed control; Telone II used for nematode control; irrigated 16 inches.

Test conducted by D. Dunn, R. Brooke, and G. South.

Tifton, Georgia: Mid-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Terral Seed	REV®26BHR50™ Brand	330.4	307.9	259.0	103	0.56	1.3	19.7	34086	100
Dyna-Gro	D57VP51	327.6	317.3	269.2	102	0.54	1.8	17.5	34195	100
Pioneer	P1794VYHR	317.1	312.7	291.5	103	0.52	1.5	18.5	33977	100
Augusta Seed	A7766VT2PRO	313.1	.	.	102	0.52	1.5	19.1	34739	100
Augusta Seed	A7767VT2PRO	309.3	.	.	106	0.48	1.8	18.2	34848	100
Terral Seed	REV®28HR20™ Brand	302.8	303.7	266.9	103	0.50	1.5	19.1	34304	100
Winfield	5678 VT2P	301.8	.	.	100	0.52	1.0	19.9	34122	100
DeKalb	DKC70-27 GENVT2P	301.8	.	.	106	0.48	1.5	19.9	34848	100
AgraTech	903VIP	299.3	.	.	100	0.53	1.8	19.1	32888	100
Dyna-Gro	D58VC37	294.9	295.7	.	101	0.49	1.0	19.1	34412	100
Mycogen	2D848	293.2	277.2	.	104	0.48	2.3	20.6	34848	100
T. A. Seeds	TA774-22DPRIB	290.9	.	.	101	0.49	1.8	19.1	34195	100
Croplan Genetics	8621 VT2P	289.2	285.0	258.1	103	0.48	1.8	19.0	34521	100
Augusta Seed	A7768GT3110	285.2	.	.	100	0.50	1.3	20.2	33868	93
T. A. Seeds	TA790-31	285.1	277.2	243.4	102	0.47	1.5	19.8	35393	100
AgraTech	966VT2PRO	284.7	.	.	99	0.54	1.8	20.1	31581	100
Syngenta NK	N83D-3000GT	284.4	278.7	253.2	103	0.49	1.8	21.0	34086	100
Augusta Seed	A8868VT3PRO	281.3	.	.	101	0.49	1.8	18.4	33215	100
Pioneer	P1916YHR	280.6	280.4	.	100	0.53	2.3	20.4	31508	100
T. A. Seeds	TA784-13VPRIB	278.5	276.5	242.4	101	0.51	1.8	19.0	32017	100
DeKalb	DKC66-75 GENVT2P	277.9	.	.	102	0.46	1.5	18.6	34086	100
Dyna-Gro	CX 16118	277.5	.	.	102	0.47	1.8	19.0	34086	100
DeKalb	DKC67-44 GENVT2P	260.5	.	.	100	0.46	2.8	19.6	33650	100
Pioneer	P1443YHR	257.8	.	.	100	0.45	1.5	18.5	32888	100
Average		292.7 ⁴	292.0	260.5	102	0.50	1.7	19.3	33848	100
LSD at 10% Level		21.0	13.2	16.1	3	0.03	0.6	0.9	1190	1
Std. Err. of Entry Mean		8.9	6.6	5.6	1	0.01	0.3	0.4	504	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 6.1%, and df for EMS = 69.

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

Planted: March 23, 2016.
 Harvested: August 15, 2016.
 Seeding Rate: 35,500 seeds per acre in 30-inch rows.
 Soil Type: Tifton loamy sand.
 Soil Test: P = High, K = Medium, and pH = 6.4.
 Fertilization: 125 lb N, 156 lb P₂O₅, and 290 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 260 lb N/acre as sidedress.
 Previous Crop: Peanuts.
 Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, Warrant, Accent, and Basagran used for weed control; Telone II used for nematode control; irrigated 16 inches.

Test conducted by D. Dunn, R. Brooke, and G. South.

Tifton, Georgia: Preliminary Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/ 100 Plants no.	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016 ----- bu/acre	2-Yr Avg -----						
Terral Seed	REV®28HR20™ Brand	305.0	.	101	0.52	1.50	20.0	34195	100
Croplan Genetics	6640 VT3P	299.8	.	99	0.54	1.80	18.8	32670	100
Terral Seed	REV®25BHR26™ Brand	283.5	296.9	100	0.53	1.00	18.6	31363	100
Pioneer	P1197YHR	282.3	282.6	100	0.46	1.80	17.7	34413	100
DeKalb	DKC68-26 GENVT2P	276.1	285.2	100	0.47	1.00	19.5	34195	100
Dyna-Gro	CX 16118	274.5	.	99	0.47	1.50	19.4	33977	100
T. A. Seeds	TA787-30	273.0	.	100	0.48	1.80	22.1	34086	100
AgraTech	908VIP	250.4	.	100	0.48	1.50	19.6	30710	100
T. A. Seeds	X20208	242.4	.	99	0.44	1.00	21.6	33541	100
T. A. Seeds	X20367	238.6	.	100	0.41	2.00	18.6	34195	97
Average		272.5 ⁴	288.2	100	0.48	1.5	19.6	33334	100
LSD at 10% Level		21.0	N.S. ⁵	1	0.03	N.S.	0.9	1516	2
Std. Err. of Entry	Mean	8.7	5.4	1	0.01	0.3	0.4	629	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 6.4%, 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: March 23, 2016.
 Harvested: August 11, 2016.
 Seeding Rate: 35,000 seeds per acre in 30-inch rows.
 Soil Type: Tifton loamy sand.
 Soil Test: P = High, K = Medium, and pH = 6.4.
 Fertilization: 125 lb N, 156 lb P₂O₅, and 290 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 260 lb N/acre as sidedress.
 Previous Crop: Peanuts.
 Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, Warrant, Accent, and Basagran used for weed control; Telone II used for nematode control; irrigated 16 inches.

Test conducted by D. Dunn, R. Brooke, and G. South.

Plains, Georgia: Short-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Terral Seed	REV®25BHR26™ Brand	232.2	239.5	.	100	0.42	1.5	13.7	30274	97
Pioneer	P1197YHR	230.5	233.3	.	103	0.40	1.8	13.5	30383	96
Mycogen	MY13M87	229.6	.	.	103	0.39	1.5	14.1	31690	97
Mycogen	MY12G38	227.5	.	.	101	0.40	2.0	15.0	31581	100
Terral Seed	REV®23BHR55™ Brand	226.3	221.1	211.8	101	0.42	1.8	13.9	29621	96
Winfield	5290 VT2P	224.3	.	.	103	0.40	1.8	14.3	29948	97
Syngenta	N76A-3000A	222.4	.	.	101	0.42	2.8	14.6	28750	96
Croplan Genetics	5570 VT2P	221.3	226.0	.	102	0.41	1.8	13.7	29294	99
Dyna-Gro	D55VP77	220.6	233.4	208.7	101	0.42	1.8	13.6	28532	100
Dyna-Gro	D54VC52	220.6	.	.	100	0.41	1.8	14.2	29403	99
Croplan Genetics	6640 VT3P	217.3	229.2	202.3	101	0.39	2.0	13.9	30492	100
T. A. Seeds	TA744-22DP PRIB	216.6	.	.	99	0.40	1.3	13.8	30274	100
Pioneer	P1303HR	212.3	.	.	104	0.37	1.3	13.5	30274	91
Terral Seed	REV®25BHR44™ Brand	212.2	234.3	225.0	102	0.38	1.8	15.7	31255	98
Syngenta	N68K-3111A	210.7	.	.	105	0.35	2.3	13.7	31799	99
DeKalb	DKC64-35 GENVT2P	209.8	.	.	100	0.38	2.0	13.7	30165	99
Augusta Seed	A1565GTCBLL	209.2	.	.	101	0.38	1.3	14.7	30492	99
T. A. Seeds	TA765-30	208.9	222.4	.	100	0.38	1.0	14.4	30601	94
AgraTech	1777VIP	202.8	226.4	208.3	99	0.40	1.5	14.4	28532	96
Mycogen	MY13A35	198.9	.	.	102	0.33	2.0	13.5	31799	89
Syngenta	N69D-3000GT	195.2	.	.	102	0.36	2.0	14.0	29077	92
Average		216.6 ⁴	229.5	211.2	101	0.39	1.7	14.1	30202	97
LSD at 10% Level		15.4	N.S. ⁵	N.S.	3	0.04	0.5	0.5	1774	4
Std. Err. of Entry Mean		6.5	7.1	5.2	1	0.01	0.2	0.2	751	2

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 6.0%, and df for EMS = 60.
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, 2016.
 Harvested: August 23, 2016.
 Seeding Rate: 32,000 seeds per acre in 30-inch rows.
 Soil Type: Faceville sandy loam.
 Soil Test: P = Medium, K = High, and pH = 6.2.
 Fertilization: 118 lb N, 46 lb P₂O₅, and 60 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 200 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Disked, subsoiled, field conditioned, and rototilled; Atrazine and Warrant used for weed control; Bifenthrin used for insect control, Folicur used for fungal control; irrigated 15 inches.

Test conducted by D. Dunn, D. Pearce, W. Jones, R. Brooke, and G. South.

Plains, Georgia: Mid-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Terral Seed	REV®28HR20™ Brand	268.1	266.2	230.9	102	0.48	1.8	16.1	30819	100
Winfield	5678 VT2P	266.1	.	.	101	0.50	1.3	14.5	29294	97
Dyna-Gro	D57VP51	261.1	250.2	219.5	100	0.45	1.3	14.3	31908	100
Terral Seed	REV®26BHR50™ Brand	254.7	252.5	226.5	100	0.47	1.0	15.6	30492	91
Mycogen	2D848	254.4	237.4	.	103	0.45	1.5	16.6	31364	99
DeKalb	DKC70-27 GENVT2P	252.0	.	.	102	0.43	1.3	15.2	32234	98
DeKalb	DKC67-44 GENVT2P	250.9	.	.	100	0.45	1.8	16.2	31472	99
Pioneer	P1916YHR	250.0	249.9	.	100	0.50	1.5	16.6	28532	100
Croplan Genetics	8621 VT2P	246.9	251.5	223.7	102	0.42	1.8	14.5	32017	99
Dyna-Gro	CX 16118	246.5	.	.	100	0.43	1.3	14.3	31799	98
Augusta Seed	A7766VT2PRO	245.9	.	.	99	0.45	2.3	15.2	31036	98
Dyna-Gro	D58VC37	242.8	246.5	.	99	0.47	1.3	14.7	29186	100
Pioneer	P1794VYHR	242.5	247.6	232.2	103	0.43	1.5	14.6	31036	82
Augusta Seed	A7767VT2PRO	241.3	.	.	100	0.46	1.5	15.2	29403	99
DeKalb	DKC66-75 GENVT2P	239.9	.	.	100	0.42	1.8	14.6	31472	99
T. A. Seeds	TA774-22DPRIB	239.6	.	.	103	0.42	1.5	15.2	31254	99
T. A. Seeds	TA784-13VPRIB	235.2	234.5	204.3	100	0.46	2.0	14.8	28859	98
Syngenta NK	N83D-3000GT	234.5	227.5	205.7	102	0.40	1.3	15.9	32125	91
Augusta Seed	A8868VT3PRO	233.3	.	.	100	0.42	1.5	14.8	31146	98
Pioneer	P1443YHR	231.6	.	.	101	0.44	1.8	14.5	28859	89
AgraTech	966VT2PRO	225.5	.	.	100	0.45	1.3	15.6	28532	100
AgraTech	903VIP	193.5	.	.	101	0.34	1.5	15.6	31145	67
T. A. Seeds	TA790-31	188.3	202.4	192.3	101	0.34	1.3	15.8	30383	68
Augusta Seed	A7768GT3110	122.6	.	.	99	0.23	2.3	16.4	30710	50
Average		236.1 ⁴	242.4	216.9	101	0.43	1.5	15.3	30628	92
LSD at 10% Level		21.2	14.2	11.1	N.S. ⁵	0.05	0.5	0.8	2049	10
Std. Err. of Entry Mean		9.0	6.0	4.7	1	0.02	0.2	0.4	869	9

1. Yields calculated at 15.5% moisture.

2. Grain quality rating: 1 = excellent to 5 = poor.

3. Grain moisture at harvest.

4. CV = 7.6%, and df for EMS = 69.

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, 2016.

Harvested: August 23, 2016.

Seeding Rate: 32,500 seeds per acre in 30-inch rows.

Soil Type: Faceville sandy loam.

Soil Test: P = Medium, K = High, and pH = 6.2.

Fertilization: 118 lb N, 46 lb P₂O₅, and 60 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Disked, subsoiled, field conditioned, and rototilled; Atrazine and Warrant used for weed control; Bifenthrin used for insect control; Folicur used for fungal control; irrigated 15 inches.

Test conducted by D. Dunn, D. Pearce, W. Jones, R. Brooke, and G. South.

Midville, Georgia: Short-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg bu/acre	3-Yr Avg						
Terral Seed	REV@23BHR55™ Brand	265.9	259.4	261.3	100	0.47	2.0	14.8	31581	100
Dyna-Gro	D54VC52	263.1	.	.	100	0.45	1.5	16.5	33124	99
Terral Seed	REV@25BHR26™ Brand	262.7	260.9	.	100	0.47	1.5	14.6	31218	100
Pioneer	P1197YHR	262.3	262.5	.	103	0.42	1.5	14.2	33396	100
Terral Seed	REV@25BHR44™ Brand	258.0	256.3	261.9	101	0.44	1.0	16.6	33033	100
Winfield	5290 VT2P	256.2	.	.	101	0.43	1.0	14.1	32852	100
Pioneer	P1303HR	255.8	.	.	101	0.43	1.0	14.5	32761	100
T. A. Seeds	TA765-30	255.1	236.9	.	101	0.44	1.0	15.5	31853	100
Croplan Genetics	6640 VT3P	253.6	258.1	241.5	99	0.48	1.5	15.0	29857	100
AgraTech	1777VIP	251.1	248.3	250.6	100	0.45	1.5	15.1	31218	100
T. A. Seeds	TA744-22DP PRIB	249.2	.	.	100	0.42	1.0	14.9	32761	100
Mycogen	MY12G38	248.2	.	.	104	0.41	2.0	18.8	33668	100
Syngenta	N76A-3000A	247.2	.	.	100	0.43	2.5	16.0	32307	98
Croplan Genetics	5570 VT2P	239.0	241.9	.	101	0.42	1.5	15.6	31400	100
Dyna-Gro	D55VP77	237.8	249.5	244.5	101	0.41	1.5	15.5	31944	100
DeKalb	DKC64-35 GENVT2P	235.6	.	.	100	0.40	2.5	15.0	32852	99
Mycogen	MY13A35	233.7	.	.	101	0.42	2.0	16.9	31309	89
Mycogen	MY13M87	233.0	.	.	102	0.40	1.5	15.9	32216	100
Syngenta	N69D-3000GT	229.1	.	.	100	0.41	2.0	15.8	31581	96
Syngenta	N68K-3111A	219.3	.	.	102	0.36	3.0	14.1	33215	100
Augusta Seed	A1565GTCBLL	218.6	.	.	101	0.41	2.0	15.3	29403	100
Average		246.4 ⁴	252.6	252	101	0.43	1.7	15.5	32074	99
LSD at 10% Level		17.1	N.S. ⁵	N.S.	2	0.03	-	0.6	2001	2
Std. Err. of Entry Mean		7.2	6.6	4.7	1	0.01	-	0.3	847	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 5.9%, and df for EMS = 60.
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, 2016.
 Harvested: August 26, 2016.
 Seeding Rate: 34,000 seeds per acre in 30-inch rows.
 Soil Type: Dothan loamy sand.
 Soil Test: P = Medium, K = Medium, and pH = 6.3.
 Fertilization: 65 lb N, 146 lb P₂O₅, and 230 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 240 lb N/acre as sidedress.
 Previous Crop: Peanuts.
 Management: Disked, field conditioned, and subsoiled/bedded; Glyphosate, Atrazine, and Warrant used for weed control; Telone II used for nematode control; irrigated 12 inches.

Test conducted by D. Dunn, R. Brooke, and G. South.

Midville, Georgia: Mid-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg bu/acre	3-Yr Avg						
Terral Seed	REV®26BHR50™ Brand	278.6	280.0	271.8	100	0.49	1.0	16.4	32579	96
Dyna-Gro	D58VC37	272.7	281.2	.	100	0.44	1.5	15.4	34304	100
DeKalb	DKC67-44 GENVT2P	268.4	.	.	100	0.46	2.0	16.0	33124	99
DeKalb	DKC70-27 GENVT2P	265.8	.	.	103	0.44	2.0	16.4	33033	100
Terral Seed	REV®28HR20™ Brand	265.1	261.8	258.0	101	0.43	1.5	16.1	34122	99
Dyna-Gro	D57VP51	264.6	266.5	250.7	102	0.43	2.0	14.7	34031	100
AgraTech	903VIP	260.7	.	.	100	0.45	2.0	16.0	32852	78
Pioneer	P1794VYHR	260.2	257.6	256.6	101	0.42	1.5	15.2	34304	99
DeKalb	DKC66-75 GENVT2P	258.9	.	.	100	0.44	2.0	15.1	33033	100
Dyna-Gro	CX 16118	257.4	.	.	100	0.47	1.0	15.3	30674	100
Croplan Genetics	8621 VT2P	254.2	264.5	258.9	102	0.40	2.5	15.2	34304	100
Syngenta NK	N83D-3000GT	252.2	253.2	247.6	100	0.43	2.0	16.8	33124	100
Augusta Seed	A7766VT2PRO	250.5	.	.	101	0.43	2.0	14.6	32579	100
Winfield	5678 VT2P	247.6	.	.	100	0.45	1.5	15.0	30764	100
Mycogen	2D848	246.8	242.4	.	100	0.42	1.5	17.5	34122	100
Augusta Seed	A8868VT3PRO	245.3	.	.	100	0.40	3.0	15.1	33759	100
T. A. Seeds	TA774-22DPRIB	244.8	.	.	100	0.40	1.5	14.9	33941	100
Pioneer	P1443YHR	243.5	.	.	101	0.42	1.5	14.2	31672	98
Augusta Seed	A7767VT2PRO	243.0	.	.	100	0.41	1.5	15.4	33124	100
Augusta Seed	A7768GT3110	241.3	.	.	100	0.42	1.5	17.5	32489	82
T. A. Seeds	TA784-13VPRIB	240.8	248.0	247.0	100	0.42	2.0	15.0	31581	99
Pioneer	P1916YHR	234.6	247.9	.	101	0.45	1.0	16.4	29494	100
T. A. Seeds	TA790-31	231.0	237.9	237.9	100	0.39	1.5	15.9	33305	100
AgraTech	966VT2PRO	222.0	.	.	100	0.44	1.0	15.8	28223	100
Average		252.1 ⁴	258.3	253.6	100	0.43	1.7	15.6	32689	98
LSD at 10% Level		16.3	10.0	10.6	N.S. ⁵	0.03	-	0.6	1566	3
Std. Err. of Entry Mean		6.9	4.2	4.5	1	0.01	-	0.3	664	1

1. Yields calculated at 15.5% moisture.

2. Grain quality rating: 1 = excellent to 5 = poor.

3. Grain moisture at harvest.

4. CV = 5.5%, and df for EMS = 69.

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, 2016.

Harvested: August 26, 2016.

Seeding Rate: 34,500 seeds per acre in 30-inch rows.

Soil Type: Dothan loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.3.

Fertilization: 65 lb N, 146 lb P₂O₅, and 230 lb K₂O/acre as preplant; 10-34-0 at 10 gal/acre 2 X 2 during planting; 240 lb N/acre as sidedress.

Previous Crop: Peanuts.

Management: Disked, field conditioned, and subsoiled/bedded; Glyphosate, Atrazine, and Warrant used for weed control; Telone II used for nematode control, irrigated 12 inches.

Test conducted by D. Dunn, R. Brooke, and G. South.

Piedmont Region

Griffin, Georgia:

Short-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Croplan Genetics	6640 VT3P	238.1	242.0	.	101	0.42	2.4	11.1	29766	100
Terral Seed	REV@25BHR26™ Brand	238.1	237.1	.	101	0.43	2.4	10.8	29282	98
Winfield	5290 VT2P	236.5	.	.	102	0.39	2.0	11.3	31581	98
Syngenta	N59B-3111A	235.8	.	.	105	0.37	2.3	10.7	32670	100
Mycogen	MY12G38	235.2	.	.	102	0.38	2.0	11.4	32791	100
Syngenta	N76A-3000A	233.7	.	.	101	0.38	3.0	10.9	32428	98
Pioneer	P1197YHR	231.8	243.9	.	100	0.4	2.1	10.7	30371	98
Dyna-Gro	D55VP77	231.5	241.2	210.9	101	0.41	2.0	11.1	29887	100
Terral Seed	REV@23BHR55™ Brand	224.7	229.0	212.4	99	0.41	2.3	10.8	29524	100
T. A. Seeds	TA765-30	218.8	219.7	.	100	0.38	1.9	10.9	30613	100
T. A. Seeds	TA744-22DP PRIB	217.4	.	.	99	0.38	2.0	11.0	30734	100
Mycogen	MY13M87	215.4	.	.	103	0.35	2.0	11.6	32065	95
Terral Seed	REV@25BHR44™ Brand	213.3	219.0	209.9	99	0.4	2.0	11.5	29161	99
Mycogen	MY13A35	207.9	.	.	99	0.35	2.4	10.5	31702	100
Pioneer	P1303HR	203.9	.	.	103	0.37	2.0	10.8	28314	99
AgraTech	1777VIP	200.2	.	.	97	0.4	2.1	11.0	27225	100
DeKalb	DKC64-35 GENVT2P	199.9	.	.	98	0.37	2.4	10.7	29524	100
Croplan Genetics	5570 VT2P	191.2	219.9	.	100	0.34	2.1	10.9	29887	100
Average		220.7 ⁴	231.5	211.1	100	0.39	2.2	11	30418	99
LSD at 10% Level		14.3	N.S. ⁵	N.S.	3	0.0	0.4	0.4	2209	N.S.
Std. Err. of Entry Mean		6.0	5.2	4.5	1	0.0	0.1	0.2	932	1.5

1. Yields calculated at 15.5% moisture.

2. Grain quality rating: 1 = excellent to 5 = poor.

3. Grain moisture at harvest.

4. CV = 5.5%, 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, 2016.

Harvested: September 9, 2016.

Seeding Rate: 33,000 seeds per acre in 30-inch rows.

Soil Type: Cecil clay loam.

Soil Test: P = Medium, K = High, and pH = 6.3.

Fertilization: 85 lb N, 170 lb P₂O₅, and 255 lb K₂O/acre as preplant; 240 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, disked, and rototilled; Atrazine, Zidua, and Callisto used for weed control; irrigation 10.5 inches.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Griffin, Georgia: Mid-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Terral Seed	REV®26BHR50™ Brand	287.9	261.8	230.6	103	0.46	1.5	11.9	32791	100
Dyna-Gro	D58VC37	270.8	258.0	.	105	0.44	2.0	11.0	31581	100
AgraTech	903VIP	267.1	.	.	99	0.47	2.0	12.4	30855	100
DeKalb	DKC67-44 GENVT2P	254.5	.	.	100	0.44	2.0	11.4	30855	100
Winfield	5678 VT2P	251.7	.	.	100	0.45	2.0	11.6	30371	100
Augusta Seed	A7768GT3110	251.0	.	.	100	0.42	2.0	12.7	32065	99
DeKalb	DKC70-27 GENVT2P	248.1	.	.	101	0.44	1.4	11.5	30169	100
Pioneer	P1794VYHR	247.9	251.3	.	104	0.44	2.0	11.1	28798	99
T. A. Seeds	TA774-22DPRIB	246.1	.	.	99	0.42	1.9	11.3	31581	100
Mycogen	2D848	241.8	238.5	.	103	0.41	1.9	13.4	31581	100
T. A. Seeds	TA790-31	238.1	240.1	212.4	99	0.42	2.0	11.4	30613	100
T. A. Seeds	TA784-13VPRIB	237.2	242.5	208.7	103	0.43	2.6	10.7	28435	100
Pioneer	P1443YHR	235.3	.	.	107	0.38	2.2	11.1	30976	99
Pioneer	P1916YHR	226.8	232.3	.	100	0.46	2.3	12.0	26499	100
Croplan Genetics	8621 VT2P	219.4	240.8	.	102	0.42	2.4	10.8	27467	100
DeKalb	DKC66-75 GENVT2P	219.3	.	.	103	0.38	2.6	10.7	30371	100
Terral Seed	REV®28HR20™ Brand	218.9	235.5	208.7	100	0.47	2.3	11.4	25168	100
Average		244.8 ⁴	244.5	215.1	102	0.43	2.1	11.5	30010	100
LSD at 10% Level		23.3	N.S. ⁵	N.S.	4	0.03	0.5	0.4	3100	N.S.
Std. Err. of Entry Mean		9.8	11	5.5	2	0.01	0.2	0.2	1307	0.5

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.0%, and df for EMS = 48.
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, 2016.
Harvested: September 9, 2016.
Seeding Rate: 33,000 seeds per acre in 30-inch rows.
Soil Type: Cecil clay loam.
Soil Test: P = Medium, K = High, and pH = 6.3.
Fertilization: 85 lb N, 170 lb P₂O₅, and 255 lb K₂O/acre as preplant; 240 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Subsoiled, disked, and rototilled; Atrazine, Zidua, and Callisto used for weed control; irrigation 10.5 inches.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

North Georgia Region

Calhoun, Georgia:

Short-Season Corn Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %	
		2016	2-Yr Avg bu/acre							3-Yr Avg
Syngenta	N76A-3000A	150.3	.	.	102	0.30	2.8	12.9	26956	97
Syngenta	N59B-3111A	144.9	.	.	107	0.26	2.0	12.6	27878	75
Terral Seed	REV®23BHR55™ Brand	142.4	151.0	174.9	101	0.30	2.3	13.8	25214	82
Mycogen	MY12G38	138.2	.	.	104	0.27	2.1	14.3	26853	99
Croplan Genetics	5570 VT2P	131.4	135.2	.	104	0.27	2.1	13.0	25214	96
Terral Seed	REV®25BHR26™ Brand	129.8	135.0	.	100	0.26	2.1	13.2	26751	76
Terral Seed	REV®25BHR44™ Brand	128.7	133.1	162.1	99	0.26	2.3	12.9	27092	95
Dyna-Gro	D55VP77	127.4	145.0	163.3	101	0.27	2.3	16.2	26136	93
Pioneer	P1303HR	126.3	.	.	103	0.27	1.6	13.0	25316	84
Winfield	5290 VT2P	120.2	.	.	103	0.25	2.0	14.5	25931	89
Mycogen	MY13M87	119.5	.	.	105	0.23	2.1	13.7	27468	99
Terral Seed	REV®24BHR93™ Brand	117.7	135.0	166.9	98	0.27	2.0	13.9	24394	89
Pioneer	P1197YHR	116.4	121.4	.	104	0.24	2.1	13.2	25931	86
Terral Seed	REV®22BHR43™ Brand	115.5	133.8	158.4	100	0.25	2.0	14.5	25419	96
DeKalb	DKC64-35 GENVT2P	112.6	.	.	101	0.23	1.9	13.4	26239	98
T. A. Seeds	TA765-30	110.1	118.8	.	102	0.23	2.0	13.1	25931	78
Croplan Genetics	6640 VT3P	109.2	140.6	153.1	102	0.21	2.4	13.3	27161	95
Mycogen	MY13A35	103.6	.	.	100	0.22	2.5	13.4	26034	72
AgraTech	1777VIP	97.5	.	.	100	0.23	1.9	13.4	23164	77
Average		123.2 ⁴	134.9	163.1	102	0.25	2.1	13.6	26057	88
LSD at 10% Level		19.4	N.S. ⁵	N.S.	4	0.04	0.3	N.S.	N.S.	10
Std. Err. of Entry Mean		8.2	6.1	5.3	2	0.02	0.1	1.6	930	4

1. Yields calculated at 15.5% moisture.

2. Grain quality rating: 1 = excellent to 5 = poor.

3. Grain moisture at harvest.

4. CV = 13.3%, and df for EMS = 54.

5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected

Planted: April 20, 2016.

Harvested: September 12, 2016.

Seeding Rate: 28,000 seeds per acre in 30-inch rows.

Soil Type: Rome gravelly clay loam.

Soil Test: P = High, K = Very High, and pH = 6.8.

Fertilization: 75 lb N, 55 lb P₂O₅, and 240 lb K₂O/acre as preplant; 128 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, Zidua, and one cultivation used for weed control; applied 1.5 ton lime/acre.

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

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg bu/acre	3-Yr Avg						
DeKalb	DKC67-44 GENVT2P	173.3	.	.	106	0.35	2.0	13.0	25214	100
Dyna-Gro	D58VC37	158.4	152.9	.	104	0.36	2.1	12.0	23472	95
Croplan Genetics	8621 VT2P	147.7	146.0	162.9	106	0.33	2.4	13.9	23472	99
DeKalb	DKC70-27 GENVT2P	138.8	.	.	100	0.31	1.9	14.3	24702	99
Pioneer	P1916YHR	136.1	129.5	.	101	0.35	2.0	13.7	21456	100
Winfield	5678 VT2P	135.6	.	.	101	0.30	1.9	12.7	24497	100
T. A. Seeds	TA784-13VPRIB	135.6	130.9	147.1	102	0.31	2.3	15.1	23779	95
Pioneer	P1443YHR	131.6	.	.	103	0.29	2.4	11.8	23677	93
T. A. Seeds	TA774-22DPRIB	131.4	141.5	.	102	0.29	2.0	12.6	24189	100
AgraTech	903VIP	129.0	.	.	102	0.29	2.0	12.3	23677	85
Augusta Seed	A7768GT3110	124.3	.	.	101	0.27	2.0	13.1	25009	41
DeKalb	DKC66-75 GENVT2P	116.8	.	.	101	0.26	1.9	13.4	24052	95
Pioneer	P1794VYHR	107.3	107.4	.	101	0.26	2.0	14.4	22959	99
Terral Seed	REV@28HR20™ Brand	99.2	108.0	144.6	100	0.23	1.6	14.7	23882	85
Average		133.2 ⁴	130.9	151.5	102	0.30	2.0	13.8	23860	92
LSD at 10% Level		18.9	13.9	N.S. ⁵	3	0.05	0.2	N.S.	1541	7
Std. Err. of Entry Mean		7.9	5.8	4.5	1	0.02	0.1	1.5	647	3

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 11.9%, 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 20, 2016.
Harvested: September 12, 2016.
Seeding Rate: 25,500 seeds per acre in 30-inch rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = High, K = Very High, and pH = 6.8.
Fertilization: 75 lb N, 55 lb P₂O₅, and 240 lb K₂O/acre as preplant; 128 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, Zidua, and one cultivation used for weed control; applied 1.5 ton lime/acre.

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

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016 ----- bu/acre	2-Yr Avg						
Syngenta	N76A-3000A	237.6	.	105	0.41	2.3	13.6	30748	100
Syngenta	N59B-3111A	225.0	.	105	0.37	1.9	12.2	31261	99
Dyna-Gro	D55VP77	224.8	208.1	108	0.40	2.0	12.8	28596	100
Croplan Genetics	5570 VT2P	222.3	199.5	100	0.38	2.5	13.2	31363	100
Pioneer	P1197YHR	219.6	194.2	104	0.38	2.0	12.0	30236	100
Mycogen	MY12G38	217.3	.	106	0.36	2.0	15.6	31978	100
Mycogen	MY13A35	217.2	.	105	0.37	2.0	13.9	31363	99
Terral Seed	REV@24BHR93™ Brand	216.4	198.1	102	0.37	2.0	13.5	31056	99
Winfield	5290 VT2P	213.4	.	106	0.37	1.8	12.6	30543	100
Terral Seed	REV@22BHR43™ Brand	211.8	193.5	103	0.36	2.0	12.1	30953	100
Croplan Genetics	6640 VT3P	210.8	201.8	102	0.37	1.9	13.0	30543	100
Terral Seed	REV@23BHR55™ Brand	203.4	192.2	100	0.37	2.4	13.2	29826	100
Pioneer	P1303HR	202.0	.	103	0.34	1.3	12.1	31158	99
Terral Seed	REV@25BHR44™ Brand	199.0	188.1	101	0.36	1.9	13.5	29928	100
Terral Seed	REV@25BHR26™ Brand	196.0	191.4	100	0.34	1.9	12.2	30543	100
DeKalb	DKC64-35 GENVT2P	192.0	.	101	0.35	1.8	12.9	29621	100
Mycogen	MY13M87	191.3	.	101	0.33	1.4	12.8	31363	100
AgraTech	1777VIP	188.1	.	100	0.34	1.9	13.1	29826	100
T. A. Seeds	TA765-30	187.3	173.8	102	0.32	1.3	13.3	30851	99
Average		209.2 ⁴	194.1	103	0.36	1.9	13	30619	100
LSD at 10% Level		19.4	N.S. ⁵	N.S.	N.S.	0.3	0.7	N.S.	-
Std. Err. of Entry Mean		8.2	5.9	2	0.02	0.1	0.3	918	-

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 = 54.
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 20, 2016.
Harvested: September 12, 2016.
Seeding Rate: 32,000 seeds per acre in 30-inch rows.
Soil Type: Waynesboro loam.
Soil Test: P = Very High, K = High, and pH = 6.5.
Fertilization: 78 lb N, 28 lb P₂O₅, and 120 lb K₂O/acre as preplant; 267 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, Zidua, and one cultivation used for weed control; applied 1.5 ton lime/acre; irrigated 14 inches.

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

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2016, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016 ----- bu/acre	2-Yr Avg						
DeKalb	DKC67-44 GENVT2P	232.8	.	102	0.4	1.9	12.8	31158	100
Croplan Genetics	8621 VT2P	210.3	210.3	103	0.36	2.0	12.2	31261	100
Dyna-Gro	D58VC37	200.3	207.3	101	0.35	2.0	12.4	30851	99
T. A. Seeds	TA774-22DPRIB	197.4	205.7	101	0.33	1.9	13.2	32491	100
Winfield	5678 VT2P	193.0	.	103	0.33	1.8	12.7	30953	100
T. A. Seeds	TA784-13VPRIB	191.3	192.3	101	0.36	1.8	12.7	29313	99
Pioneer	P1916YHR	189.9	201.0	100	0.36	2.1	13.4	28596	100
Terral Seed	REV@28HR20™ Brand	187.0	185.3	101	0.33	1.9	14.0	30646	97
DeKalb	DKC70-27 GENVT2P	185.4	.	103	0.30	1.6	13.5	32593	100
Augusta Seed	A7768GT3110	184.4	.	100	0.33	1.9	14.7	30646	92
DeKalb	DKC66-75 GENVT2P	183.2	.	102	0.30	1.8	12.1	31671	100
AgraTech	903VIP	182.7	.	101	0.33	2.0	13.6	29928	95
Pioneer	P1794VYHR	181.9	174.6	103	0.32	1.6	12.5	30031	97
Pioneer	P1443YHR	179.4	.	102	0.32	2.1	11.3	29826	100
Average		192.8 ⁴	196.6	101	0.34	1.9	12.9	30711	98
LSD at 10% Level		17.1	12.6	N.S. ⁵	0.04	N.S.	0.6	N.S.	3
Std. Err. of Entry Mean		7.2	5.3	1	0.02	0.1	0.3	926	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 7.4%, 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 20, 2016.
 Harvested: September 12, 2016.
 Seeding Rate: 33,000 seeds per acre in 30-inch rows.
 Soil Type: Waynesboro loam.
 Soil Test: P = Very High, K = High, and pH = 6.5.
 Fertilization: 78 lb N, 28 lb P₂O₅, and 120 lb K₂O/acre as preplant; 267 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, Zidua, and one cultivation used for weed control; applied 1.5 ton lime/acre; irrigated 14 inches.

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

Blairsville, Georgia: Short-Season Corn Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Terral Seed	REV®23BHR55™ Brand	296.4	320.0	305.8	101	0.51	2.0	17.4	33033	100
T. A. Seeds	TA765-30	285.4	319.7	.	104	0.47	1.4	17.9	33517	100
Terral-	REV®25BHR26™ Brand	282.9	318.9	.	101	0.48	1.8	17.6	33275	100
Terral Seed	REV®22BHR43™ Brand	282.3	287.5	275.1	101	0.48	2.0	17.0	33396	100
Pioneer	P1197YHR	281.5	308.5	.	103	0.46	2.0	16.6	33759	100
Winfield	5290 VT2P	275.1	.	.	101	0.47	1.6	17.4	33396	100
Syngenta	N76A-3000A	274.8	.	.	103	0.46	2.5	18.2	33396	100
Dyna-Gro	D55VP77	273.9	.	.	103	0.45	2.0	17.9	33759	100
Terral Seed	REV®25BHR44™ Brand	272.6	305.1	286.0	100	0.50	2.0	19.5	31823	100
Terral Seed	REV®24BHR93™ Brand	270.6	295.4	284.6	103	0.48	1.9	16.8	31218	100
DeKalb	DKC64-35 GENVT2P	268.9	.	.	101	0.47	1.6	17.7	32549	100
Croplan Genetics	6640 VT3P	268.4	274.9	257.9	100	0.51	2.0	16.9	30855	100
AgraTech	1777VIP	266.4	.	.	99	0.49	1.5	17.6	31823	100
Syngenta	N59B-3111A	262.3	.	.	103	0.43	2.0	16.6	33880	100
Pioneer	P1303HR	257.6	.	.	101	0.43	1.1	16.0	33759	100
Croplan Genetics	5570 VT2P	250.9	266.8	.	103	0.42	2.0	17.3	33275	100
Mycogen	MY12G38	249.1	.	.	107	0.40	2.0	17.8	33638	100
Mycogen	MY13M87	241.8	.	.	101	0.42	1.8	18.7	33517	100
Mycogen	MY13A35	236.5	.	.	102	0.41	2.0	17.2	32912	100
Average		268.3 ⁴	299.6	281.9	102	0.46	1.8	17.5	32988	100
LSD at 10% Level		16.1	13.8	14.1	N.S. ⁵	0.04	0.2	0.8	1638	-
Std. Err. of Entry Mean		6.8	5.8	5.9	2	0.02	0.1	0.3	692	-

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 = 54.
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 5, 2016.
 Harvested: September 29, 2016.
 Seeding Rate: 34,000 seeds per acre in 30-inch rows.
 Soil Type: Suches loam.
 Soil Test: P = High, K = Very High, and pH = 5.9.
 Fertilization: 75 lb N, 60 lb P₂O₅, and 80 lb K₂O/acre as preplant; 184 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Moldboard plowed and disked; Anthem ATZ used for weed control; applied 1.5 ton lime/acre.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Blairsville, Georgia: Mid-Season Corn Hybrid Performance, 2016, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Erect Plants %
		2016	2-Yr Avg	3-Yr Avg						
Croplan Genetics	8621 VT2P	288.4	300.0	282.1	103	0.48	2.0	18.1	33638	100
AgraTech	903VIP	284.2	.	.	102	0.50	2.0	18.4	32549	99
Augusta Seed	A7768GT3110	282.9	.	.	101	0.51	2.0	19.8	32791	97
DeKalb	DKC70-27 GENVT2P	279.4	.	.	104	0.48	1.5	20.1	33517	100
DeKalb	DKC67-44 GENVT2P	278.9	.	.	101	0.51	1.9	18.1	31702	100
Pioneer	P1443YHR	269.7	.	.	102	0.45	2.0	17.2	33517	100
DeKalb	DKC66-75 GENVT2P	269.2	.	.	100	0.48	1.8	17.6	32307	100
Winfield	5678 VT2P	268.0	.	.	101	0.46	1.3	18.5	33517	100
Terral Seed	REV@28HR20™ Brand	257.2	287.2	297.5	100	0.46	1.9	19.0	32428	100
Dyna-Gro	D58VC37	255.6	279.2	.	102	0.51	1.9	19.0	29766	100
T. A. Seeds	TA784-13VPRIB	248.2	267.9	266.9	100	0.47	2.0	17.2	30129	99
Average		271.1 ⁴	283.6	282.2	101	0.48	1.8	18.5	32351	100
LSD at 10% Level		16.9	N.S. ⁵	N.S.	N.S.	N.S.	0.3	0.7	N.S.	1
Std. Err. of Entry Mean		7.0	6.3	7.6	2	0.02	0.1	0.3	1076	0.6

1. Yields calculated at 15.5% moisture.

2. Grain quality rating: 1 = excellent to 5 = poor.

3. Grain moisture at harvest.

4. CV = 5.2%, and df for EMS = 30.

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 5, 2016.

Harvested: September 29, 2016.

Seeding Rate: 34,000 seeds per acre in 30-inch rows.

Soil Type: Suches loam.

Soil Test: P = High, K = Very High, and pH = 5.9.

Fertilization: 75 lb N, 60 lb P₂O₅, and 80 lb K₂O/acre as preplant; 184 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed and disked; Anthem ATZ used for weed control; applied 1.5 ton lime/acre.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2016

Company or Brand Name	Hybrid Name	Quality Factors ¹			Dry Matter Yield				
		Milk Production ²		Grain Portion %	Statewide Average	Blairsville	Calhoun	Griffin	Tifton
		lbs/ton DM	lbs/acre							----- tons/acre -----
Mid-Season									
AgraTech	1023VIP	3606	52647	41	.	.	.	.	14.8
AgraTech	903VIP	3829	52647	57	12.1	11.9	11.3	11.9	13.4
AgraTech	908VIP	3731	52647	59	.	.	.	.	9.2
AgraTech	999VIP	4008	40309	45	.	.	.	.	10.0
Augusta Seed	A7667GT3110	3575	44511	55	.	.	.	.	12.1
Augusta Seed	A7668GT3110	3865	46571	54	.	.	.	.	12.4
Augusta Seed	A7766VT2PRO	3722	42424	56	.	.	.	.	11.3
Augusta Seed	A7768GT3110	3635	47396	53	11.6	11.5	12.1	10.3	12.7
Augusta Seed	A7769GT3110	3731	45354	55	.	.	.	.	12.5
Croplan Genetics	7927 VT3P	3821	45272	51	11.8	12.0	11.7	11.9	11.5
Croplan Genetics	8621 VT2P	3672	43280	55	12.1	12.1	12.7	11.3	12.1
Croplan Genetics	8750 RH	3922	49974	52	11.8	10.7	11.4	12.6	12.5
DeKalb	DKC68-26 GENVT2P	3715	43434	55	12.1	12.4	12.9	11.8	12.1
DeKalb	DKC70-01 RR2	3851	46811	50	11.8	10.8	12.0	12.3	12.0
DeKalb	RX940RR2	3890	43560	49	11.9	13.2	11.5	11.8	11.2
Dyna-Gro	CX 16118	3777	36574	59	.	.	.	10.3	9.8
Dyna-Gro	D58QC72	3887	43283	52	.	11.4	.	11.2	11.2
MC	EXP685P	3755	49558	48	.	.	.	.	12.7
MC	MCT-6733	3772	48848	55	11.5	11.5	12.5	9.4	12.5
MC	MCT-6753	3769	39378	52	.	.	11.5	.	9.8
Mycogen	TMF17L86	4031	46957	46	11.1	10.3	11.2	11.1	11.8
Pioneer	P1739YHR	3802	39535	52	10.9	11.2	11.6	11.3	10.9
Pioneer	P1794VYHR	3798	49724	54	12.5	13.8	10.5	12.8	12.9
Pioneer	P1916YHR	3883	37280	50	10.3	9.8	11.4	10.3	10.5
Syngenta NK	N83D-3000GT	3872	43168	52	.	.	.	.	11.1
T. A. Seeds	TA784-13VPRIB	3676	48545	53	11.7	12.4	12.8	10.0	11.8
T. A. Seeds	TA805-22DPRIB	3785	40878	58	.	.	.	11.5	11.2
T. A. Seeds	TA787-30	3879	45745	53	.	.	.	12.0	11.4
Terral Seed	REV@28HR20™ Brand	3849	50418	51	.	10.9	.	11.4	12.8
Winfield	S5900 VT2P	3776	50425	48	12.3	12.9	11.7	11.5	13.2
<i>Average</i>		3796	44928	52	11.7	11.7	11.8	11.3	11.8

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2016 (Continued)

Company or Brand Name	Hybrid Name	Quality Factors ¹			Dry Matter Yield				
		Milk Production ²		Grain Portion %	Statewide Average	Blairsville Calhoun Griffin Tifton			
		lbs/ton DM	lbs/acre			tons/acre			
Short -Season									
Augusta Seed	A9074GT3110	3653	48554	39	.	.	.	.	13.1
Dyna-Gro	D55GT73	3815	51499	52	.	.	.	9.3	13.6
MC	EXP640P	3906	42177	52	.	.	.	.	11.0
MC	MCT-6363	3733	37143	57	.	.	11.1	.	9.5
MC	MCT-6583	3816	43156	52	10.0	9.6	9.9	9.8	10.5
Mycogen	BMR14B96	3986	37670	47	9.1	8.3	9.7	9.0	9.5
Mycogen	BMR15B15	4004	35453	45	10.3	10.5	11.7	10.8	8.1
Mycogen	TMF14L46	3757	49965	47	.	11.9	11.5	.	12.7
Pioneer	P1197YHR	3834	45238	57	10.6	10.3	10.5	10.4	11.1
Syngenta	N76A-3000A	3763	46268	57	11.6	10.4	12.9	10.8	12.3
T. A. Seeds	TA780-22DPRIB	3840	41473	54	10.4	10.7	11.2	9.6	10.1
Terral Seed	REV@23BHR55™ Brand	4008	44648	55	.	11.2	.	9.6	11.6
Terral Seed	REV@25BHR26™ Brand	3854	49035	54	.	11.7	.	12.0	12.0
<i>Average</i>		<i>3844</i>	<i>44022</i>	<i>5134</i>	<i>10.3</i>	<i>10.5</i>	<i>11.1</i>	<i>10.1</i>	<i>11.2</i>
<i>Overall test statistics:</i>									
Average		3811 ³	44654 ⁴	52	11.3 ⁵	11.3	11.4	11	11.6
LSD at 10% Level		131	4522	3	0.6	1.3	1.5	1.3	1.0
Std. Err. of Entry Mean		55	1901	1	0.3	0.6	0.6	0.5	0.4

1. Quality factors taken from the replicated silage trial at Tifton.

2. This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.

3. CV = 2.0%, and df for EMS = 42.

4. CV = 6.0%, and df for EMS = 42.

5. CV = 9.8%, and df for EMS = 240.

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, 2016

Company or Brand Name	Hybrid Name	Quality Factors ¹									Dry Matter Yield	
		Milk Production ²		Protein %	NDF %	ADF %	Starch %	TDN %	NDF48 ³ %	Ash %	Grain	
		DM lbs/ton	lbs/acre								Portion %	Tifton tons/acre
Mid-Season												
AgraTech	1023VIP	3606	52647	8.1	48.8	28.2	28.1	70.9	75	5.7	41	14.8
AgraTech	903VIP	3829	49398	8.8	39.0	21.5	39.0	73.6	85	5.4	57	13.4
AgraTech	908VIP	3731	36580	8.8	37.9	21.2	38.9	72.2	88	5.7	59	9.2
AgraTech	999VIP	4008	40309	8.7	44.2	25.0	30.7	75.9	85	5.6	45	10.0
Augusta Seed	A7667GT3110	3575	44511	9.0	39.5	21.4	37.8	70.0	86	5.1	55	12.1
Augusta Seed	A7668GT3110	3865	46571	8.7	39.5	22.1	38.1	74.1	84	5.5	54	12.4
Augusta Seed	A7766VT2PRO	3722	42424	8.6	39.4	22.2	38.1	72.2	83	5.4	56	11.3
Augusta Seed	A7768GT3110	3635	47396	8.8	44.9	25.7	31.0	70.8	82	6.2	53	12.7
Augusta Seed	A7769GT3110	3731	45354	8.5	40.2	22.7	37.8	72.1	86	5.6	55	12.5
Croplan Genetics	7927 VT3P	3821	45272	8.3	40.1	22.8	36.7	73.4	85	5.5	51	11.5
Croplan Genetics	8621 VT2P	3672	43280	8.5	39.6	21.9	37.3	71.4	85	5.2	55	12.1
Croplan Genetics	8750 RH	3922	49974	8.5	41.3	22.7	36.0	74.6	87	5.3	52	12.5
DeKalb	DKC68-26 GENVT2P	3715	43434	8.3	40.4	22.9	37.0	72.0	84	5.5	55	12.1
DeKalb	DKC70-01 RR2	3851	46811	8.4	44.2	24.9	32.1	74.0	81	5.3	50	12.0
DeKalb	RX940RR2	3890	43560	8.9	45.9	25.8	30.3	74.3	82	5.4	49	11.2
Dyna-Gro	CX 16118	3777	36574	8.5	38.7	21.2	39.8	73.0	83	5.0	59	9.8
Dyna-Gro	D58QC72	3887	43283	8.7	42.4	23.8	34.4	74.5	82	5.5	52	11.2
MC	EXP685P	3755	49558	8.2	48.5	28.2	25.9	72.4	81	6.0	48	12.7
MC	MCT-6733	3772	48848	8.7	39.3	21.7	37.5	72.7	87	5.4	55	12.5
MC	MCT-6753	3769	39378	8.6	41.2	22.8	36.0	72.7	85	5.4	52	9.8
Mycogen	TMF17L86	4031	46957	8.0	44.4	25.0	32.9	76.3	83	5.1	46	11.8
Pioneer	P1739YHR	3802	39535	8.4	42.7	24.1	34.5	73.3	82	5.2	52	10.9
Pioneer	P1794VYHR	3798	49724	8.5	41.1	22.7	36.7	73.1	84	5.0	54	12.9
Pioneer	P1916YHR	3883	37280	8.4	47.1	27.1	28.0	74.3	81	5.5	50	10.5
Syngenta NK	N83D-3000GT	3872	43168	8.4	41.7	23.3	35.1	74.1	84	5.2	52	11.1
T. A. Seeds	TA784-13VPRIB	3676	48545	8.4	40.0	22.7	36.2	71.4	85	5.6	53	11.8
T. A. Seeds	TA805-22DPRIB	3785	40878	8.7	37.2	20.3	41.7	73.0	85	5.2	58	11.2
T. A. Seeds	TA787-30	3879	45745	8.6	42.5	23.8	34.0	74.1	85	5.6	53	11.4
Terral Seed	REV®28HR20™ Brand	3849	50418	8.7	43.8	25.1	32.5	73.7	84	5.5	51	12.8
Winfield	S5900 VT2P	3776	50425	8.8	43.1	24.3	33.0	72.8	84	5.4	48	13.2
<i>Average</i>		3796	44928	8.6	42.0	23.6	34.9	73.1	83.8	5.4	52	11.8

Summary of Quality Factors of Corn Hybrids for Silage Tifton, Georgia, 2016 (Continued)

Company or Brand Name	Hybrid Name	Quality Factors ¹									Dry Matter Yield	
		Milk Production ²		Protein %	NDF %	ADF %	Starch %	TDN %	NDF48 ³ %	Ash %	Grain	
		lbs/ton DM	lbs/acre								Portion %	Tifton tons/acre
Short-Season												
Augusta Seed	A9074GT3110	3653	48554	8.1	52.0	30.4	23.1	71.3	76	5.9	39	13.1
Dyna-Gro	D55GT73	3815	51499	8.1	44.1	25.4	31.7	73.3	83	5.7	52	13.6
MC	EXP640P	3906	42177	8.0	38.3	21.5	38.9	74.5	88	5.3	52	11.0
MC	MCT-6363	3733	37143	8.3	38.3	21.9	39.3	72.2	85	5.5	57	9.5
MC	MCT-6583	3816	43156	8.3	43.5	24.9	32.2	73.3	84	5.7	52	10.5
Mycogen	BMR14B96	3986	37670	9.2	42.5	24.1	32.4	75.1	92	6.1	47	9.5
Mycogen	BMR15B15	4004	35453	8.5	43.7	24.7	32.2	75.4	92	5.1	45	8.1
Mycogen	TMF14L46	3757	49965	7.9	43.8	25.1	32.9	72.5	82	5.4	47	12.7
Pioneer	P1197YHR	3834	45238	8.8	38.0	20.9	39.4	73.5	89	5.3	57	11.1
Syngenta	N76A-3000A	3763	46268	7.9	34.2	18.8	44.9	72.5	91	5.2	57	12.3
T. A. Seeds	TA780-22DPRIB	3840	41473	8.1	41.8	23.9	35.3	73.6	85	5.6	54	10.1
Terral Seed	REV@23BHR55™ Brand	4008	44648	8.6	36.6	20.1	41.2	76.0	88	5.1	55	11.6
Terral Seed	REV@25BHR26™ Brand	3854	49035	8.4	45.1	25.6	30.8	73.8	83	5.4	54	12.0
<i>Average</i>		<i>3844</i>	<i>44021</i>	<i>8.3</i>	<i>41.7</i>	<i>23.6</i>	<i>35.0</i>	<i>73.6</i>	<i>86</i>	<i>5.5</i>	<i>51</i>	<i>11.2</i>
<i>Overall Test Statistics:</i>												
Average		3811 ⁴	44654 ⁵	8.5	41.9	23.6	34.9	73.3	84	5.5	52	11.6
LSD at 10% Level		131	4522	0.5	3.9	2.7	4.9	1.8	3	0.4	3	1.0
Std. Err. of Entry Mean		55	1901	0.2	1.6	1.1	2.0	0.7	1.4	0.2	1	0.4

1. Quality factors taken from the replicated silage trial at Tifton.
 2. This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
 3. NDF48: Percent dry matter disappearance/48 hours.
 4. CV = 2.0%, and df for EMS = 42.
 5. CV = 6.0%, and df for EMS = 42.
- 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, 2016, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry --- tons/acre ---	Green				
Mid-Season							
AgraTech	1023VIP	14.8	41.5	35.6	41	34195	.
AgraTech	903VIP	13.4	33.6	39.7	57	33324	12.8
Winfield	S5900 VT2P	13.3	35.9	37.0	48	34630	.
Pioneer	P1794VYHR	12.9	32.7	39.5	54	34630	13.4
Terral Seed	REV@28HR20™ Brand	12.8	35.2	36.4	51	34848	.
MC	EXP685P	12.7	34.6	36.9	48	34195	.
Augusta Seed	A7768GT3110	12.7	32.9	38.7	53	34848	.
Augusta Seed	A7769GT3110	12.5	31.9	39.4	55	32452	.
Croplan Genetics	8750 RH	12.5	34.2	36.5	52	34848	13.5
MC	MCT-6733	12.5	32.1	38.9	55	34848	12.4
Augusta Seed	A7668GT3110	12.4	31.8	39.0	54	33541	.
DeKalb	DKC68-26 GENVT2P	12.1	31.1	38.8	55	34848	.
Augusta Seed	A7667GT3110	12.1	28.9	42.0	55	32888	.
Croplan Genetics	8621 VT2P	12.1	29.8	40.7	55	34848	12.5
DeKalb	DKC70-01 RR2	12.0	33.3	36.0	50	34413	11.8
T. A. Seeds	TA784-13VPRIB	11.8	30.6	38.2	53	31145	12.6
Mycogen	TMF17L86	11.8	35.7	33.0	46	33541	.
Croplan Genetics	7927 VT3P	11.5	30.2	38.0	51	32452	12.7
T. A. Seeds	X19032	11.4	30.9	37.0	53	34848	.
Augusta Seed	A7766VT2PRO	11.3	30.6	37.1	56	33977	.
DeKalb	RX940RR2	11.2	30.9	36.2	49	33541	.
T. A. Seeds	TA805-22DPRIB	11.2	29.7	37.8	58	33759	12.0
Dyna-Gro	D58QC72	11.2	30.6	36.5	52	33977	11.2
Syngenta NK	N83D-3000GT	11.1	29.6	37.5	52	34630	11.8
Pioneer	P1739YHR	10.9	28.9	37.6	52	33106	.
Pioneer	P1916YHR	10.5	28.1	37.5	50	29621	11.3
AgraTech	999VIP	10.0	29.4	34.3	45	30057	11.2
MC	MCT-6753	9.9	26.3	37.4	52	31363	11.2
Dyna-Gro	CX 16118	9.9	24.8	39.7	59	32670	.
AgraTech	908VIP	9.2	23.4	39.3	59	28314	.
<i>Average</i>		<i>11.8</i>	<i>31.3</i>	<i>37.7</i>	<i>52</i>	<i>33345</i>	<i>12.2</i>

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2016, Irrigated
(Continued)

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage tons/acre
		Dry ---- tons/acre ----	Green				
Short-Season							
Dyna-Gro	D55GT73	13.6	36.4	37.4	52	34195	12.9
Augusta Seed	A9074GT3110	13.1	36.8	35.5	39	32452	.
Mycogen	TMF14L46	12.7	32.6	38.9	47	32888	.
Syngenta	N76A-3000A	12.3	29.7	41.4	57	33759	.
Terral Seed	REV@25BHR26™ Brand	12.0	32.2	37.3	54	32888	.
Terral Seed	REV@23BHR55™ Brand	11.6	31.3	37.0	55	32017	.
Pioneer	P1197YHR	11.1	29.6	37.6	57	34195	.
MC	EXP640P	11.0	28.5	38.6	52	33977	.
MC	MCT-6583	10.5	28.0	37.6	52	30274	.
T. A. Seeds	TA780-22DPRIB	10.2	27.4	37.0	54	32017	11.1
MC	MCT-6363	9.5	23.1	41.0	57	34630	.
Mycogen	BMR14B96	9.5	24.3	39.1	47	34848	.
Mycogen	BMR15B15	8.2	20.7	39.5	45	34413	.
<i>Average</i>		11.2	29.3	38.3	51	33273	12.0
<i>Overall test statistics:</i>							
Average		11.6 ¹	30.7 ²	37.9	52	33323	12.1
LSD at 10% Level		1.0	2.5	2.1	3	1820	0.8
Std. Err. of Entry Mean		0.4	1.0	0.9	1	777	0.4

1. CV = 7.2%, and df for EMS = 126.

2. CV = 6.9%, and df for EMS = 126.

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

Planted: March 23, 2016.

Harvested: July 19, 2016.

Seeding Rate: 35,000 seeds per acre in 30-inch rows.

Soil Type: Tifton loamy sand.

Soil Test: P = High, K = Medium, and pH = 6.4.

Fertilization: 125 lb N, 156 lb P₂O₅, and 290 lb K₂O/acre as preplant; 260 lb N/acre as sidedress.

Previous Crop: Peanuts.

Management: Disked, subsoiled/bedded, and rototilled; Atrazine, Zidua, Warrant, Accent and Basagran used for weed control; Telone II used for nematode control; irrigated 16 inches.

Test conducted by R. Brooke, D. Dunn, B. McCranie, and G. South.

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2016, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry tons/acre	Green				
Mid-Season							
Pioneer	P1794VYHR	12.8	25.5	50.3	49	30734	12.9
Croplan Genetics	8750 RH	12.7	28.2	45.2	50	35332	12.2
DeKalb	DKC70-01 RR2	12.3	26.7	46.3	47	32428	12.8
T. A. Seeds	X19032	12.0	27.3	44.0	51	34606	.
Croplan Genetics	7927 VT3P	11.9	27.6	43.5	49	33396	12.9
AgraTech	903VIP	11.9	25.7	46.5	53	32186	.
DeKalb	RX940RR2	11.8	26.3	44.9	46	31944	.
DeKalb	DKC68-26 GENVT2P	11.8	24.9	47.9	51	33638	.
Winfield	S5900 VT2P	11.6	30.4	38.2	47	33154	.
T. A. Seeds	TA805-22DPRIB	11.5	24.4	47.4	51	32186	11.8
Terral Seed	REV@28HR20™ Brand	11.4	24.8	46.4	47	30654	.
Croplan Genetics	8621 VT2P	11.3	25.2	44.9	51	32186	12.0
Pioneer	P1739YHR	11.3	24.8	45.4	52	32670	.
Dyna-Gro	D58QC72	11.3	24.7	45.6	50	29524	11.8
Mycogen	TMF17L86	11.2	27.8	40.1	41	34122	.
Pioneer	P1916YHR	10.3	23.1	45.4	53	29282	11.6
Dyna-Gro	CX 16118	10.3	22.7	46.6	54	30250	.
Augusta Seed	A7768GT3110	10.3	23.2	44.4	52	32912	.
T. A. Seeds	TA784-13VPRIB	10.0	24.7	40.7	48	27830	11.1
MC	MCT-6733	9.4	21.0	45.1	53	32428	.
<i>Average</i>		11.4	25.5	44.9	50	32073	12.1
Short-Season							
Terral Seed	REV@25BHR26™ Brand	12.0	27.9	43.5	53	30734	.
Mycogen	BMR15B15	10.8	22.8	47.6	42	36300	.
Syngenta	N76A-3000A	10.8	23.7	45.6	54	30976	.
Pioneer	P1197YHR	10.4	21.5	48.3	53	33798	.
MC	MCT-6583	9.8	22.2	44.5	53	30330	.
T. A. Seeds	TA780-22DPRIB	9.6	23.6	40.4	53	31702	10.4
Terral Seed	REV@23BHR55™ Brand	9.6	21.9	43.7	57	30008	.
Dyna-Gro	D55GT73	9.3	21.1	44.1	50	27104	10.9
Mycogen	BMR14B96	9.0	19.5	46.0	40	32428	.
<i>Average</i>		10.1	22.7	44.9	51	31487	10.7
<i>Overall test statistics:</i>							
Average		11.0 ¹	24.6 ²	44.9	50	32250	11.8
LSD at 10% Level		1.3	3.1	4.5	3	3019	N.S. ³
Std. Err. of Entry Mean		0.5	1.3	1.9	1	1284	0.5

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2016, Irrigated (Continued)

1. CV = 10.0%, and df for EMS = 84.
2. CV = 10.9%, and df for EMS = 84.
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: March 30, 2016.

Harvested: August 8, 2016.

Seeding Rate: 35,500 seeds per acre in 30-inch rows.

Soil Type: Cecil clay loam.

Soil Test: P = Medium, K = High, and pH = 6.3.

Fertilization: 85 lb N, 170 lb P₂O₅, and 255 lb K₂O/acre as preplant; 240 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, disked, and rototilled; Atrazine, Zidua, and Callisto used for weed control; irrigated 9.5 inches.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2016, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry tons/acre	Green tons/acre				
Mid-Season							
DeKalb	DKC68-26 GENVT2P	12.9	24.8	52.1	49	32388	.
T. A. Seeds	TA784-13VPRIB	12.8	25.8	50.3	50	29928	11.4
Croplan Genetics	8621 VT2P	12.7	24.3	54.1	51	33208	12.0
MC	MCT-6733	12.5	23.9	53.2	53	31773	11.5
Augusta Seed	A7768GT3110	12.1	23.7	50.9	52	33618	.
DeKalb	DKC70-01 RR2	12.0	26.0	46.7	47	32183	11.2
Winfield	S5900 VT2P	11.7	23.8	49.0	44	31978	.
Croplan Genetics	7927 VT3P	11.7	24.7	47.6	49	32593	10.8
Pioneer	P1739YHR	11.6	22.4	52.1	54	31773	.
MC	MCT-6753	11.5	22.6	51.3	54	32593	9.8
DeKalb	RX940RR2	11.5	23.3	49.2	44	33618	.
Pioneer	P1916YHR	11.4	21.3	54.2	52	30953	10.2
Croplan Genetics	8750 RH	11.4	22.2	51.5	45	33618	10.6
AgraTech	903VIP	11.3	22.0	51.5	52	33208	.
Mycogen	TMF17L86	11.2	21.0	53.5	37	32388	.
Pioneer	P1794VYHR	10.5	19.9	52.5	49	31978	10.6
<i>Average</i>		<i>11.8</i>	<i>23.2</i>	<i>51.2</i>	<i>49</i>	<i>32362</i>	<i>10.9</i>
Short-Season							
Syngenta	N76A-3000A	12.9	23.8	54.4	50	31978	.
Mycogen	BMR15B15	11.7	22.8	51.8	38	33618	.
Mycogen	TMF14L46	11.5	23.0	49.7	44	30748	.
T. A. Seeds	TA780-22DPRIB	11.2	20.1	56.9	49	33003	9.9
MC	MCT-6363	11.1	21.2	52.5	53	33413	.
Pioneer	P1197YHR	10.5	21.1	50.6	54	33413	.
MC	MCT-6583	9.9	21.0	47.4	48	31773	.
Mycogen	BMR14B96	9.7	17.1	57.0	40	33618	.
<i>Average</i>		<i>11.1</i>	<i>21.3</i>	<i>52.5</i>	<i>47</i>	<i>32696</i>	<i>9.9</i>
<i>Overall test statistics:</i>							
Average		11.4 ¹	22.6 ²	51.7	48	32473	10.8
LSD at 10% Level		1.5	2.6	5.0	4	1896	N.S. ³
Std. Err. of Entry Mean		0.6	1.1	2.1	2	804	0.5

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2016, Irrigated (Continued)

1. CV = 10.8%, and df for EMS = 69.
2. CV = 9.6%, and df for EMS = 69.
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 20, 2016.
Harvested: August 25, 2016.
Seeding Rate: 34,000 seeds per acre in 30-inch rows.
Soil Type: Waynesboro laom.
Soil Test: P = Very High, K = High, and pH = 6.6.
Fertilization: 76 lb N, 22 lb P₂O₅, and 96 lb K₂O/acre as preplant; 267 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Atrazine, Callisto, Zidua and one cultivation used for weed control; applied 1.5 ton lime/acre; irrigation 12 inches.

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

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2016, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry tons/acre	Green				
Mid-Season							
Pioneer	P1794VYHR	13.8	27.0	51.4	54	33396	13.5
DeKalb	RX940RR2	13.2	28.0	46.9	44	33638	.
Winfield	S5900 VT2P	12.9	33.3	38.9	51	33880	.
DeKalb	DKC68-26 GENVT2P	12.4	24.9	50.0	55	32670	.
T. A. Seeds	TA784-13VPRIB	12.4	22.2	55.8	51	32912	12.5
Croplan Genetics	8621 VT2P	12.1	24.7	49.0	53	33880	13.9
Croplan Genetics	7927 VT3P	12.0	22.4	53.7	48	31944	12.1
AgraTech	903VIP	12.0	22.4	53.1	54	31944	12.3
Augusta Seed	A7768GT3110	11.5	25.9	44.4	53	32912	.
MC	MCT-6733	11.5	25.1	45.7	56	33396	.
Dyna-Gro	D58QC72	11.4	25.2	45.3	52	32912	.
Pioneer	P1739YHR	11.3	19.5	57.8	55	31460	.
Terral Seed	REV@28HR20™ Brand	10.9	23.9	45.6	49	33154	.
DeKalb	DKC70-01 RR2	10.8	26.9	40.5	49	33638	12.2
Croplan Genetics	8750 RH	10.7	22.8	47.6	51	33154	12.0
Mycogen	TMF17L86	10.4	20.5	50.3	42	30250	.
Pioneer	P1916YHR	9.8	21.0	46.7	50	30492	11.3
<i>Average</i>		<i>11.7</i>	<i>24.4</i>	<i>48.4</i>	<i>51</i>	<i>32684</i>	<i>12.5</i>
Short-Season							
Mycogen	TMF14L46	11.9	27.2	44.0	49	33154	.
Terral Seed	REV@25BHR26™ Brand	11.7	23.0	51.0	55	31702	.
Terral Seed	REV@23BHR55™ Brand	11.2	23.2	48.5	55	32186	.
T. A. Seeds	TA780-22DPRIB	10.7	20.4	52.5	55	33396	9.9
Mycogen	BMR15B15	10.5	22.6	47.0	45	32912	.
Syngenta	N76A-3000A	10.4	21.7	47.9	53	31944	.
Pioneer	P1197YHR	10.3	20.3	51.0	57	32428	.
MC	MCT-6583	9.7	22.2	43.6	54	32186	.
Mycogen	BMR14B96	8.3	13.6	61.4	47	33396	.
<i>Average</i>		<i>10.5</i>	<i>21.6</i>	<i>49.7</i>	<i>52</i>	<i>32589</i>	<i>9.9</i>
<i>Overall test statistics:</i>							
Average		11.3 ¹	23.4 ²	48.8	51	32651	12.2
LSD at 10% Level		1.3	2.1	4.2	3	N.S. ³	N.S.
Std. Err. of Entry Mean		0.6	0.9	1.8	1	853	0.5

**Blairsville, Georgia:
Evaluation of Corn Hybrids for Silage, 2016, Nonirrigated
(Continued)**

1. CV = 10.0%, and df for EMS = 75.
2. CV = 7.7%, and df for EMS = 75.
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: May 5, 2016.
Harvested: September 14, 2016.
Seeding Rate: 34,000 seeds per acre in 30-inch rows.
Soil Type: Suches loam.
Soil Test: P = High, K = Very High, and pH = 5.9.
Fertilization: 75 lb N, 60 lb P₂O₅, and 80 lb K₂O/acre as preplant; 184 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed and disked; Anthem ATZ used for weed control; applied 1.6 ton lime/acre.

Test conducted by H. Jordan, G. Ware, and T. Dunn.

Insect Screening Results

Multiple Insect Resistance in 50 Commercial Corn Hybrids, 2016

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, GA. Nine hybrids were rated Very Good (VG), the highest rating for multiple insect resistance in 2016 (see following table). Thirteen were Good (G), 19 were Fair (F), and 13 were Poor (P). Three hybrids 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. Four hybrids were developed utilizing YHR traits (also known as Optimum® Intrasect™), 9 hybrids have Genuity VT Double PRO (VT2P) traits, and 2 hybrids have 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 high in the 2016 trial. 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 3.5 cm, which was greater than the damage observed in 2015 (0.1-2.1 cm). Multiple species of sap beetles were recorded in 2016. Stink bug damage in 2016 was relatively low, ranging from 0.02-1.32% of the kernels per ear, which was similar to what observed in 2015, 0.1-1.4%. So was sap beetle damage, 0.2-2.4% in 2016 and 0.3-2% in 2015, as well as pink scavenger caterpillar damage, <1% in 2016 and 0-1% in 2015. Maize weevil infestation at harvest with 18% kernel moisture was also rarely observed in 2016. The high level of cob damage by corn earworm and fall armyworm might have been influenced by both planting time and weather conditions in 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. The relatively early flowering observed in 2016, which is similar to what we observed in 2015, could be the result of a relatively late planting date (April 21 in 2016) in combination with high temperatures during the first 54 days after planting (that is, from April 21 to June 15). In 2016, 796 degree days were recorded between April 21 and June 15 (using 60°F as base temperature), and a similar number (788 degree days) were recorded during the same period of time in 2015.

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 50 hybrids for multiple insect resistance in the table were 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 not indicative of yield. For yield data, please refer to the other data provided in this report.

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, GA, on April 21, 2016, and harvested between August 29 and September 2, 2016. Kernel moisture was approximately 18% at harvest. The experimental plots were thinned to 20,000 plants per acre and maintained following local Extension publication-recommended agronomic practices by P. Tapp (USDA-ARS, Tifton). The data were collected by P. Tapp, H. Deems, L. Munoz (USDA-ARS, Tifton) and K. Stratton (UGA-Tifton).

Ear-Feeding Insect Resistance in 50 Commercial Corn Hybrids, Tifton, Georgia, 2016

Company or Brand Name	Hybrid Name	Days to Anthesis ¹	Husk Extension (cm)	Husk Tightness ² rating	2015 FAW+CEW Damage ³ (cm)	Overall Resistance to Insect Damage ⁴	
						2015	2 or more years
Mid-Season							
TA Seeds	TA774-22DPRIB	51	4.4	M	1.8	VG	VG-
AgraTech	903VIP	55	2.9	M	1.7	VG	
Mycogen	2D848	55	3.9	M	1.5	VG	G-
Dyna-Gro	D58VC37	53	4.5	T	0.5	VG	VG
AgraTech	966VT2PRO	55	4.4	T	1.1	VG	
Augusta Seed	A7768GT3110	54	5.3	T	0.2	VG	
Augusta Seed	A8868VT3Pro	53	3.4	M	1.9	VG	
Terral Seed	REV@26GHR50™ Brand	55	2.0	M	1.5	G	G-
Pioneer	P1794VYHR	55	2.9	M	1.6	G	VG-
TA Seeds	X20367	52	2.8	M	1.9	G	G-
Pioneer	P1916YHR	54	4.7	M	2.2	G	VG-
Augusta Seed	A7767VT2Pro	52	4.7	M	1.8	G	
Augusta Seed	A7766VT2Pro	52	4.3	M	1.4	G	
Terral Seed	REV@28HR20™ Brand	55	1.0	M	2.5	F	G
TA Seeds	TA784-13VPRIB	55	4.2	M	2.9	F	G
TA Seeds	TA790-31	53	0.5	M	2.0	F	F
NK	N83D-3000GT	53	1.1	M	2.1	F	G+
TA Seeds	TA787-30	53	1.3	M	2.7	F	F
TA Seeds	X20208	55	2.3	M	3.5	F	G-
Pioneer	P1443YHR	53	1.5	M	2.4	F	G-
Dekalb	DKC70-27 GENVT2P	56	0.8	M	3.0	F	
Dekalb	DKC67-44 GENVT2P	52	0.3	M	2.6	F	
Dyna-Gro	CX16118	54	0.7	M	2.3	F	
Dyna-Gro	D57VP51	54	0.5	M	3.3	P	F-
Croplan	8621 VT2P	52	0.9	M	2.6	P	F+
Dekalb	DKC66-75 GENVT2P	52	0.2	M	2.6	P	

Ear-Feeding Insect Resistance in 50 Commercial Corn Hybrids, Tifton, Georgia, 2016 (Continued)

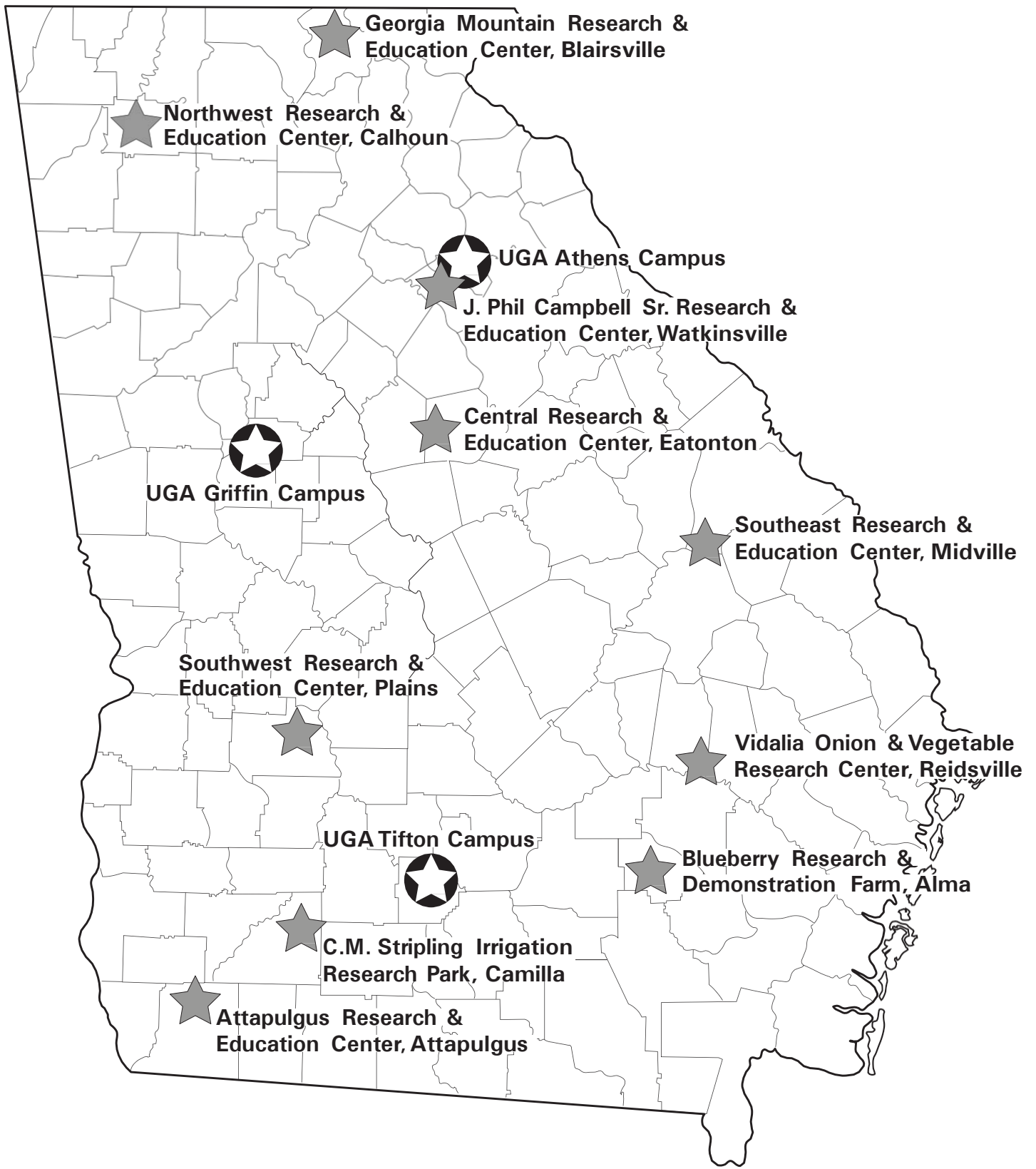
Company or Brand Name	Hybrid Name	Days to Anthesis ¹	Husk Extension (cm)	Husk Tightness ² rating	2015 FAW+CEW Damage ³ (cm)	Overall Resistance to Insect Damage ⁴	
						2015	2 or more years
Short-Season							
Dyna-Gro	D55VP77	53	1.3	T	1.4	VG	VG-
TA Seeds	TA744-22DPRIB	52	0.9	T	1.8	VG	G
Terral Seed	REV@22HBR43™ Brand	54	7.9	M	1.4	G	VG-
TA Seeds	TA765-30	54	2.1	M	1.0	G	G
Pioneer	P1197YHR	54	3.8	M	0.8	G	G-
Croplan	5570 VT2P	54	3.4	M	0.8	G	F+
Croplan	5290 VT2P	51	3.4	M	0.6	G	
NK	N59B-3111A	52	2.6	M	1.2	G	
Mycogen	MY13M87	52	1.1	M	1.2	G	
Pioneer	P1303HR	52	4.0	M	3.3	F	
Terral Seed	REV@24BHR93™ Brand	56	1.5	M	2.5	F	G-
Croplan	6640 VT3P	52	1.4	M	1.9	F	G-
Terral Seed	REV@23BHR55™ Brand	56	0.2	M	2.4	F	G-
AgraTech	1777VIP	55	1.9	M	2.3	F	F
Dyna-Gro	D54VC52	52	0.5	M	2.1	F	
NK	N68K-3111A	54	1.5	M	2.5	F	
Mycogen	MY12G38	55	1.1	M	1.9	F	
Mycogen	MY13A35	54	0.8	M	2.9	F	
Terral Seed	REV@25GHR44™ Brand	57	0.8	M	3.2	P	F
Terral Seed	REV@25BHR26™ Brand	56	2.0	M	2.9	P	P
Dekalb	DKC64-35 GENVT2P	53	1.0	M	3.5	P	
NK	N69D-3000GT	53	0.4	M	3.0	P	
NK	N76A-3000GT	54	0.1	M	2.8	P	
Augusta Seed	A1565GTCBLL	51	0.6	M	1.8	P	

1. Days to anthesis is the number of days to flowering at Tifton, Georgia in 2016 after the hybrids were planted on April 21, 2016 ($n = 4$).
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 savenger 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.

Sources of Seed for the 2016 Corn Hybrid Tests

Company or Brand Name	Seed Source
AgraTech	Grabow Seed Services, Inc., 6830 Lisa Lane, Dunwoody, GA 30338.
Augusta Seed	Augusta Seed, P.O. Box 899, Verona, VA 24482.
Croplan Genetics and Winfield	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.
MC	Masters Choice, 305 West Vienna, Anna, IL 62906.
Mycogen	Mycogen Seed, 24 Surrey Circle, Tifton, GA 31793.
Pioneer	Dupont Pioneer, 425 Abbeydale Way, Columbia, SC 29229.
Syngenta and 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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