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Georgia

2013 Corn Performance

Tests

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Editors



Department of Crop and Soil Sciences
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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 x 10 ⁻⁵ ounce



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PREFACE

In this research report, the results of the 2013 corn performance trials are presented. Corn performance trials were conducted at six locations throughout Georgia (see map inside back cover) in 2013. 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 four 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: 2012-2013 Small Grains Performance Tests (Annual Publication #100-5); the 2012 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication #103-4); the 2012 Peanut, Cotton and Tobacco Performance Tests (Annual Publication #104-4); and the 2013 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 J. LaDon Day, Department of Crop and Soil Sciences, University of Georgia Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.

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2013 Corn Performance Tests

Edited by

Anton E. Coy, John D. Gasset, and J. LaDon Day

The Season

For the first time in a decade, Georgia's 2013 corn season began with an abundant amount of soil moisture. Rain and cool temperatures through February, March, and April delayed planting throughout much of the state. As the season progressed, irrigation was not much of a concern, and corn showed signs of yellowing due to the excessive amounts of rain. Corn drowning out and the lack of bright sunshine was a concern for the first time in years. Wet fields hampered silage harvest for many farmers. July rains combined with stink bug pressure caused quality problems in most of the corn-growing belt in Georgia.

Seasonal rainfall totals, as shown in the table below, were above normal for all locations. Rainfall in north Georgia ranged from 4.8 inches to 15.2 inches above normal, while south Georgia was 13.6 inches to 26.8 inches above normal.

Growing Season Rainfall¹, 2013

Month	Blairsville	Calhoun ²	Griffin	Midville	Plains	Tifton
----- inches -----						
February	5.33	5.09	9.21	12.11	9.92	17.85
March	4.80	4.86	4.54	3.84	4.86	3.13
April	9.07	8.80	5.56	3.89	8.80	4.44
May	4.36	6.97	6.45	1.83	6.97	2.61
June	6.94	6.26	8.72	16.17	6.26	13.31
July	10.60	6.79	7.72	4.93	6.79	5.79
August	4.23	1.56	5.28	4.78	1.56	8.71
September	3.65	2.89	2.05	1.31	2.16	3.12
<i>Total (8 mo)</i>	48.98	43.22	49.53	48.86	47.32	58.96
<i>Normal (8 mo)</i>	38.50	38.37	34.34	30.65	33.69	32.15

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

2. Floyd County location.

The good, corn crop progress in Georgia took a downward turn during June and July when excessive rainfall caused grain rot problem, especially at the base of ears where it's attached to the stalk.

Total corn planted for grain in Georgia was 500,000 acres, up 69% from 2012. 450,000 acres of corn grain were harvested. According to the October crop estimates from the USDA, Georgia corn producers averaged 183 bushels per acre of corn this growing season (7 bu/ac less than the new state yield record during 2012). A total production of 82.35 million bushels of corn was an increase of 26.3 million bushels or 47% more than last year. The large total production this season was due mainly to adequate rainfall for nonirrigated acres.

Grain Tests Results

Coastal Plain Region

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2013

		Yield					
Company or Brand Name	Variety	Coastal	Tifton	Tifton	Midville	Plains	Irrigated
		Plain Average	Non-Irr.	Irrigated	Irrigated	Irrigated	Average
----- bu/acre -----							
Short-Season							
Pfister	3366	223.1	203.5	251.7	231.9	205.3	229.6
Phoenix	6522	220.6	205.9	258.2	220.0	198.4	225.5
Dyna-Gro	D55GT73	215.5	215.2	261.3	215.7	169.9	215.6
T. A. Seeds	TA765-00	213.8	220.2	273.6	186.3	175.3	211.7
Terral-REV®	25BHR44™	213.6	223.6	273.7	173.2	184.1	210.3
Augusta Seed	5565	209.9	198.0	250.3	188.6	202.8	213.9
Dyna-Gro	D55VP77	208.0	211.7	262.5	169.2	188.5	206.7
Croplan Genetics	6960 VT3 PRO	204.1	218.8	255.8	150.6	191.3	199.2
Croplan Genetics	6640 VT3 Pro	203.1	211.7	263.9	170.3	166.8	200.3
AgraTech	1777GT	199.1	201.9	265.4	186.1	142.9	198.1
Pioneer	P1319HR	198.8	209.5	254.2	182.6	149.0	195.3
Dyna-Gro	D52VC91	197.5	195.9	253.0	182.4	158.8	198.1
AgraTech	744VT3PRO	196.7	207.0	250.9	164.5	164.5	193.3
Augusta Seed	5465GTCGLL	195.4	199.3	222.3	214.2	145.8	194.1
Pfister	2770	195.1	195.4	243.2	210.0	132.0	195.1
Terral-REV®	17HR73™	193.5	190.0	239.0	180.6	164.3	194.7
Augusta Seed	5262	193.5	194.2	199.7	217.0	162.9	193.2
Pfister	2674	191.4	196.2	236.8	191.6	141.2	189.9
Augusta Seed	6665	191.4	195.8	236.2	165.4	168.2	189.9
Syngenta NK	N68B-3111	189.4	202.9	227.0	148.8	179.0	184.9
Pfister	3488	188.6	198.8	200.1	193.9	161.6	185.2
Armor	1555SS	186.3	205.5	248.6	136.2	154.9	179.9
Terral-REV®	22BHR54™	185.6	190.3	238.6	174.4	139.2	184.1
Dyna-Gro	D54VP81	183.7	207.5	236.6	111.0	179.6	175.7
Armor	1550PRO2	183.6	193.1	239.0	155.8	146.5	180.4
Terral-REV®	18BHR84™	183.3	203.2	230.1	168.6	131.4	176.7
DeKalb	DKC64-99 VT2P	182.9	188.9	228.9	146.8	167.1	180.9
DeKalb	DKC65-19 VT3P	182.7	195.5	233.0	111.1	191.2	178.4
T. A. Seeds	TA753-22DP	180.0	201.6	240.3	144.0	134.1	172.8
Armor	1133PRO2	175.6	188.7	224.0	138.2	151.3	171.2
Armor	1262PRO2	166.4	189.2	219.9	117.3	139.2	158.8
<i>Average</i>		195.2	201.9	242.5	172.5	164.1	193.0
<i>LSD at 10% Level</i>		14.6	15.9	15.3	24.1	29.0	12.9
<i>Std. Err. of Entry Mean</i>		6.3	6.8	6.5	10.2	12.3	5.5

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2013 (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-REV®	28R10™	223.9	215.6	266.1	225.2	188.9	226.7
Augusta Seed	6866GT3000A	222.0	214.0	274.4	215.8	183.6	224.6
Pioneer	P1685YHR	219.8	201.5	278.1	224.6	175.1	225.9
Pioneer	P1690YHR	214.5	198.1	290.3	236.7	132.7	219.9
Syngenta NK	N79T-3111	212.6	202.7	246.6	208.0	193.2	215.9
Augusta Seed	7767	209.7	222.2	258.3	227.6	130.9	205.6
Syngenta NK	N82V-3111	209.6	185.5	274.1	202.2	176.6	217.6
Croplan Genetics	8621 VT3 Pro	209.4	207.1	244.3	217.9	168.5	210.2
Augusta Seed	7768	209.0	218.2	213.6	241.3	163.1	206.0
Terral-REV®	26BHR50™	208.4	200.0	269.3	211.4	153.2	211.3
Armor	1880PRO2	207.1	197.1	244.7	219.3	167.3	210.4
Dyna-Gro	D57VP51	206.0	200.2	235.3	212.7	176.0	208.0
AgraTech	84G6 3000GT	206.0	205.0	235.2	211.2	172.5	206.3
Terral-REV®	28HR20™	205.7	216.2	288.6	217.4	100.6	202.2
AgraTech	903 Viptera	205.6	195.9	251.2	244.8	130.5	208.8
T. A. Seeds	TA785-13VP	203.7	197.8	244.7	226.4	145.8	205.6
Phoenix	8400	202.7	202.9	256.4	234.6	117.1	202.7
Phoenix	8500	200.4	194.3	250.0	204.0	153.3	202.4
Croplan Genetics	8410 VT3 PRO	198.6	194.9	230.7	218.3	150.7	199.9
AgraTech	883VT3PRO	197.3	197.5	239.5	207.7	144.5	197.2
Dyna-Gro	DK56VC46	197.1	189.6	240.2	214.3	144.5	199.6
Pioneer	P2023YHR	196.0	206.2	275.4	215.2	87.3	192.7
Pioneer	P1636YHR	193.4	196.0	241.7	212.8	123.4	192.6
Syngenta NK	N78S 3111	193.1	200.7	259.8	227.5	84.5	190.6
Terral-REV®	27HR83™	192.4	193.8	266.3	231.3	78.0	191.9
T. A. Seeds	TA780-22DP	190.1	184.3	227.7	213.2	135.2	192.1
Syngenta NK	N74G-3000GT	190.0	178.1	218.6	194.7	168.6	194.0
Dyna-Gro	D57VP75	184.0	190.4	247.9	166.6	131.2	181.9
DeKalb	DKC67-57 VT3P	183.6	194.8	234.2	203.0	102.3	179.8
Phoenix	6542	179.5	187.7	240.4	214.1	75.7	176.7
<i>Average</i>		202.4	199.6	251.4	216.7	141.8	203.3
<i>LSD at 10% Level</i>		15.5	15.3	14.3	19.9	23.1	11.1
<i>Std. Err. of Entry Mean</i>		6.6	6.5	6.1	8.4	9.8	4.8

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, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb			no.	%
Terral-REV®	25BHR44™	223.6	.	.	101	0.54	1.5	22.1	24829	100
T. A. Seeds	TA765-00	220.2	172.1	152.3	98	0.55	1.0	21.3	24503	99
Croplan Genetics	6960 VT3 PRO	218.8	.	.	100	0.54	2.0	19.7	24176	98
Dyna-Gro	D55GT73	215.2	.	.	100	0.55	1.5	21.8	23632	100
Croplan Genetics	6640 VT3 Pro	211.7	166.7	.	99	0.53	2.0	20.5	23958	100
Dyna-Gro	D55VP77	211.7	160.7	.	99	0.54	2.0	20.4	23740	97
Pioneer	P1319HR	209.5	.	.	100	0.50	2.0	19.1	24394	99
Dyna-Gro	D54VP81	207.5	156.6	.	101	0.51	2.0	20.1	23958	100
AgraTech	744VT3PRO	207.0	.	.	101	0.50	1.5	20.5	24503	100
Phoenix	6522	205.9	.	.	97	0.59	1.0	22.1	21998	95
Armor	1555SS	205.5	.	.	99	0.54	1.5	24.1	23958	100
Pfister	3366	203.5	.	.	99	0.50	1.5	20.5	24503	100
Terral-REV®	18BHR84™	203.2	.	.	97	0.49	2.5	19.6	24938	100
Syngenta NK	N68B-3111	202.9	.	.	100	0.48	2.0	18.5	24720	100
AgraTech	1777GT	201.9	.	.	99	0.54	1.5	21.1	22543	99
T. A. Seeds	TA753-22DP	201.6	.	.	102	0.50	2.0	20.5	23631	97
Augusta Seed	5465GTCGLL	199.3	.	.	99	0.52	2.0	23.2	24067	100
Pfister	3488	198.8	.	.	101	0.51	2.0	23.0	23741	100
Augusta Seed	5565	198.0	.	.	100	0.50	2.0	20.2	23522	95
Pfister	2674	196.2	.	.	101	0.45	2.0	19.4	25374	100
Dyna-Gro	D52VC91	195.9	.	.	100	0.50	2.0	20.8	23414	100
Augusta Seed	6665	195.8	.	.	101	0.51	2.0	18.5	22216	100
DeKalb	DKC65-19 VT3P	195.5	.	.	100	0.50	2.0	20.2	23305	96
Pfister	2770	195.4	.	.	99	0.48	1.5	23.1	25374	100
Augusta Seed	5262	194.2	.	.	100	0.48	2.5	21.1	24627	100
Armor	1550PRO2	193.1	.	.	97	0.49	2.5	19.7	23631	100
Terral-REV®	22BHR54™	190.3	.	.	102	0.48	2.0	20.3	23196	93
Terral-REV®	17HR73™	190.0	.	.	99	0.45	2.0	19.4	25047	98
Armor	1262PRO2	189.2	.	.	100	0.49	2.5	19.6	22978	100
DeKalb	DKC64-99 VT2P	188.9	.	.	100	0.46	2.5	19.8	24503	100
Armor	1133PRO2	188.7	.	.	93	0.49	2.5	20.1	24720	100
<i>Average</i>		201.9 ⁴	164.0	152.3	99	0.51	1.9	20.7	23990	99
<i>LSD at 10% Level</i>		15.9	N.S. ⁵	-	N.S.	0.04	N.S.	1.1	1376	N.S.
<i>Std. Err. of Entry Mean</i>		6.8	12.5	-	2	0.02	0.3	0.5	586	2

Tifton, Georgia: Short-Season Corn Hybrid Performance, 2013, 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 = 6.7%, and df for EMS = 90.
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 9, 2013.

Harvested: August 13, 2013.

Seeding Rate: 26,000 seeds/acre in 30" rows.

Soil Type: Fuquay loamy sand.

Soil Test: P = Low, K = Medium, and pH = 6.1.

Fertilization: 40 lb N, 80 lb P_2O_5 , and 88 lb K_2O /acre as preplant; 130 lb N/acre as sidedress.

Previous Crop: Peanuts.

Management: Disked, subsoiled and bedded, rototilled; Atrazine, Prowl, and Accent used for weed control; Telone II used for nematode control.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb			no.	%
Augusta Seed	7767	222.2	.	.	100	0.54	2.0	21.2	24862	100
Augusta Seed	7768	218.2	.	.	101	0.54	1.0	23.2	24829	97
Terral-REV [®]	28HR20 [™]	216.2	182.3	149.3	100	0.54	2.0	22.9	24829	100
Terral-REV [®]	28R10 [™]	215.6	172.8	136.7	99	0.57	2.0	21.9	23305	100
Augusta Seed	6866GT3000A	214.0	.	.	97	0.54	1.0	21.7	24827	100
Croplan Genetics	8621 VT3 Pro	207.1	169.4	.	99	0.52	2.0	19.7	23740	100
Pioneer	P2023YHR	206.2	.	.	100	0.51	2.0	21.0	23991	100
AgraTech	84G6 3000GT	205.0	.	.	97	0.55	1.0	21.5	22978	98
Phoenix	8400	202.9	.	.	99	0.53	2.0	21.1	23523	98
Syngenta NK	N79T-3111	202.7	.	.	100	0.52	1.0	19.7	22760	94
Pioneer	P1685YHR	201.5	.	.	99	0.49	2.5	20.7	24536	100
Syngenta NK	N78S 3111	200.7	172.7	150.1	98	0.52	2.0	22.0	23632	100
Dyna-Gro	D57VP51	200.2	170.3	.	100	0.53	2.0	20.7	22542	96
Terral-REV [®]	26BHR50 [™]	200.0	.	.	100	0.50	2.0	22.3	24394	100
Pioneer	P1690YHR	198.1	.	.	100	0.52	2.0	20.9	23087	97
T. A. Seeds	TA785-13VP	197.8	.	.	100	0.49	2.0	19.8	23849	100
AgraTech	883VT3PRO	197.5	.	.	100	0.50	1.0	19.6	23522	99
Armor	1880PRO2	197.1	.	.	99	0.48	2.0	20.2	24611	99
Pioneer	P1636YHR	196.0	160.1	.	101	0.49	2.0	18.8	23196	100
AgraTech	903 Viptera	195.9	.	.	100	0.49	2.0	21.1	24067	88
Croplan Genetics	8410 VT3 PRO	194.9	156.7	138.9	100	0.47	1.0	20.3	24789	87
DeKalb	DKC67-57 VT3P	194.8	.	.	99	0.49	2.0	19.9	23522	97
Phoenix	8500	194.3	.	.	100	0.53	1.0	21.3	22324	100
Terral-REV [®]	27HR83 [™]	193.8	159.8	.	99	0.48	2.0	20.8	24503	100
Dyna-Gro	D57VP75	190.4	.	.	100	0.47	3.0	20.4	24176	100
Dyna-Gro	DK56VC46	189.6	.	.	100	0.50	2.0	20.6	22543	100
Phoenix	6542	187.7	.	.	98	0.51	1.0	21.8	22760	100
Syngenta NK	N82V-3111	185.5	159.5	.	100	0.49	2.0	21.7	23196	100
T. A. Seeds	TA780-22DP	184.3	.	.	99	0.48	2.0	21.5	23522	100
Syngenta NK	N74G-3000GT	178.1	.	.	101	0.46	2.0	21.3	23305	100
<i>Average</i>		199.6 ⁴	167.1	143.8	99	0.51	1.8	21.0	23724	98
<i>LSD at 10% Level</i>		15.3	18.5	N.S. ⁵	N.S.	0.03	-	0.8	1411	N.S.
<i>Std. Err. of Entry Mean</i>		6.5	7.7	5.9	1	0.02	-	0.3	600	3

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2013, 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 = 6.5%, and df for EMS = 87.
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 9, 2013.
Harvested: August 13, 2013.
Seeding Rate: 25,000 seeds/acre in 30" rows.
Soil Type: Fuquay loamy sand.
Soil Test: P = Low, K = Medium, and pH = 6.1.
Fertilization: 40 lb N, 80 lb P_2O_5 , and 88 lb K_2O /acre as preplant; 130 lb N/acre as sidedress.
Previous Crop: Peanuts.
Management: Disked, subsoiled and bedded, rototilled; Atrazine, Prowl, and Accent used for weed control; Telone II used for nematode control.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Tifton, Georgia:
Short-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Terral-REV®	25BHR44™	273.7	.	.	101	0.51	1.0	23.0	33140	99
T. A. Seeds	TA765-00	273.6	282.5	268.4	99	0.52	1.0	22.2	32126	98
AgraTech	1777GT	265.4	.	.	90	0.59	1.0	21.8	30274	100
Croplan Genetics	6640 VT3 Pro	263.9	288.0	.	99	0.54	1.0	21.5	29730	100
Dyna-Gro	D55VP77	262.5	272.1	.	99	0.51	1.0	20.6	31006	100
Dyna-Gro	D55GT73	261.3	.	.	101	0.54	1.0	21.3	28967	100
Phoenix	6522	258.2	.	.	100	0.54	1.0	22.5	29077	100
Croplan Genetics	6960 VT3 PRO	255.8	.	.	100	0.51	2.0	21.6	30492	96
Pioneer	P1319HR	254.2	.	.	99	0.50	2.0	22.0	31254	98
Dyna-Gro	D52VC91	253.0	.	.	99	0.48	1.0	21.1	32126	100
Pfister	3366	251.7	.	.	99	0.47	1.0	21.8	32561	100
AgraTech	744VT3PRO	250.9	.	.	99	0.49	1.0	21.0	31146	100
Augusta Seed	5565	250.3	.	.	100	0.50	1.0	20.9	29730	100
Armor	1555SS	248.6	.	.	98	0.51	1.0	21.8	30274	100
Pfister	2770	243.2	.	.	101	0.45	1.0	22.3	32670	99
T. A. Seeds	TA753-22DP	240.3	.	.	100	0.47	2.0	22.7	31146	100
Terral-REV®	17HR73™	239.0	.	.	99	0.46	1.0	20.3	31363	99
Armor	1550PRO2	239.0	.	.	98	0.48	1.0	22.6	31146	100
Terral-REV®	22BHR54™	238.6	.	.	102	0.46	2.0	22.7	31363	100
Pfister	2674	236.8	.	.	99	0.44	1.0	20.9	32343	99
Dyna-Gro	D54VP81	236.6	261.4	.	100	0.48	2.0	22.4	30492	98
Augusta Seed	6665	236.2	.	.	98	0.48	1.0	20.0	30057	100
DeKalb	DKC65-19 VT3P	233.0	.	.	100	0.44	1.0	22.2	32234	99
Terral-REV®	18BHR84™	230.1	.	.	99	0.44	2.0	21.0	32017	99
DeKalb	DKC64-99 VT2P	228.9	.	.	100	0.43	2.0	23.0	32779	100
Syngenta NK	N68B-3111	227.0	.	.	100	0.43	2.0	21.2	32016	100
Armor	1133PRO2	224.0	.	.	95	0.47	2.0	21.8	30383	100
Augusta Seed	5465GTCGLL	222.3	.	.	99	0.44	1.0	22.3	31254	100
Armor	1262PRO2	219.9	.	.	97	0.42	2.0	22.1	32452	98
Pfister	3488	200.1	.	.	100	0.42	2.0	24.0	30165	100
Augusta Seed	5262	199.7	.	.	96	0.43	1.0	22.7	29948	99
<i>Average</i>		242.5 ⁴	276.0	268.4	99	0.48	1.4	21.8	31153	99
<i>LSD at 10% Level</i>		15.3	N.S. ⁵	-	3	0.02	-	0.8	1549	N.S.
<i>Std. Err. of Entry Mean</i>		6.5	4.4	-	1	0.01	-	0.3	659	1

Tifton, Georgia: Short-Season Corn Hybrid Performance, 2013, 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 = 5.4%, and df for EMS = 90.
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 8, 2013.
Harvested: August 20, 2013.
Seeding Rate: 33,500 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.4.
Fertilization: 94 lb N, 176 lb P_2O_5 , and 280 lb K_2O /acre as preplant; 260 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled and bedded, rototilled; Atrazine, Prowl, and Accent used for weed control; Telone II used for nematode control; irrigated 3 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Pioneer	P1690YHR	290.3	.	.	98	0.57	1.0	22.7	31799	100
Terral-REV®	28HR20™	288.6	282.6	277.3	99	0.55	1.0	22.0	32235	100
Pioneer	P1685YHR	278.1	.	.	98	0.53	1.0	21.7	32234	99
Pioneer	P2023YHR	275.4	.	.	100	0.52	2.0	21.8	32006	100
Augusta Seed	6866GT3000A	274.4	.	.	98	0.55	1.0	22.1	31036	99
Syngenta NK	N82V-3111	274.1	275.4	.	98	0.53	1.0	21.7	31908	99
Terral-REV®	26BHR50™	269.3	.	.	100	0.55	2.0	23.2	30056	96
Terral-REV®	27HR83™	266.3	277.5	.	98	0.55	1.0	21.3	30056	100
Terral-REV®	28R10™	266.1	268.0	268.1	100	0.50	1.0	21.8	32125	100
Syngenta NK	N78S 3111	259.8	265.8	266.8	99	0.51	1.0	22.1	31037	98
Augusta Seed	7767	258.3	.	.	100	0.50	3.0	22.0	31472	100
Phoenix	8400	256.4	.	.	100	0.51	1.0	21.3	30601	98
AgraTech	903 Viptera	251.2	.	.	99	0.51	1.0	22.3	30700	98
Phoenix	8500	250.0	.	.	100	0.50	2.0	20.8	30123	100
Dyna-Gro	D57VP75	247.9	.	.	99	0.50	3.0	22.1	30384	100
Syngenta NK	N79T-3111	246.6	.	.	100	0.51	1.0	21.3	29185	100
Armor	1880PRO2	244.7	.	.	99	0.48	1.0	21.5	31037	100
T. A. Seeds	TA785-13VP	244.7	.	.	100	0.48	2.0	20.9	30710	100
Croplan Genetics	8621 VT3 Pro	244.3	254.8	.	99	0.47	3.0	21.1	31799	100
Pioneer	P1636YHR	241.7	260.2	.	101	0.52	2.0	20.4	27360	100
Phoenix	6542	240.4	.	.	100	0.53	1.0	21.9	27552	97
Dyna-Gro	DK56VC46	240.2	.	.	98	0.49	1.0	22.1	30337	100
AgraTech	883VT3PRO	239.5	.	.	99	0.48	1.0	21.2	30384	100
Dyna-Gro	D57VP51	235.3	256.1	.	99	0.49	2.0	21.9	29503	100
AgraTech	84G6 3000GT	235.2	.	.	100	0.56	1.0	22.4	25592	100
DeKalb	DKC67-57 VT3P	234.2	.	.	100	0.48	2.5	21.7	29917	100
Croplan Genetics	8410 VT3 PRO	230.7	240.8	242.3	99	0.45	1.0	20.9	31145	100
T. A. Seeds	TA780-22DP	227.7	.	.	100	0.45	1.0	21.6	30383	99
Syngenta NK	N74G-3000GT	218.6	.	.	100	0.45	1.0	21.2	29542	100
Augusta Seed	7768	213.6	.	.	96	0.47	1.0	24.2	29621	88
<i>Average</i>		251.4 ⁴	264.6	263.6	99	0.51	1.5	21.8	30394	99
<i>LSD at 10% Level</i>		14.3	N.S. ⁵	-	2	0.02	-	0.6	1596	2
<i>Std. Err. of Entry Mean</i>		6.1	3.6	-	1	0.01	-	0.3	679	1

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2013, 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 = 4.8%, and df for EMS = 87.
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 3, 2013.
Harvested: August 20, 2013.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.5.
Fertilization: 94 lb N, 176 lb P_2O_5 , and 280 lb K_2O /acre as preplant; 260 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled and bedded, rototilled; Atrazine, Prowl, and Accent used for weed control; Telone II used for nematode control; irrigated 3 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Tifton, Georgia: Preliminary Corn Hybrid Performance, 2013, 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 %
		2013 ----- bu/acre	2-Yr Avg -----						
T. A. Seeds	TA784-13VP	276.4	286.2	99	0.55	2.0	22.6	31036	100
Pioneer	P2023YHR	267.9	.	99	0.52	1.0	22.6	31908	100
T. A. Seeds	X19455	261.5	.	100	0.51	2.0	21.8	31255	100
T. A. Seeds	X18698D	257.5	274.2	100	0.52	1.0	22.6	30710	97
AgraTech	842VT3PRO	257.0	.	99	0.52	1.0	22.4	30383	99
T. A. Seeds	X18696D	256.6	270.1	99	0.50	2.0	21.1	31146	100
AgraTech	883VT3PRO	252.9	.	98	0.50	1.0	22.2	31254	100
T. A. Seeds	X19461	249.0	.	100	0.49	2.0	24.3	32125	100
Greenwood	GW 3515 RR	243.3	.	100	0.50	1.0	22.4	29621	96
Terral-REV®	18BHR84™	236.4	.	101	0.44	2.0	21.0	32452	99
T. A. Seeds	X18691D	235.3	250.4	101	0.43	2.0	20.7	32670	100
T. A. Seeds	X19460	233.7	.	99	0.47	2.0	22.3	30819	98
Syngenta NK	N68B-3111	231.6	.	100	0.43	2.0	21.3	32235	100
Greenwood	GW 3560 RR	213.5	.	100	0.46	3.0	25.4	29621	99
Greenwood	GW 3540 RR	181.6	.	101	0.59	1.0	23.1	18731	99
<i>Average</i>		243.6 ⁴	270.2	100	0.49	1.7	22.4	30398	99
<i>LSD at 10% Level</i>		12.6	10.7	N.S. ⁵	0.03	-	0.7	1675	2
<i>Std. Err. of Entry Mean</i>		5.3	4.4	1	0.01	-	0.3	704	1

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 4.3%, and df for EMS = 42.

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 8, 2013.

Harvested: August 20, 2013.

Seeding Rate: 33,000 seeds/acre in 30" rows.

Soil Type: Tifton sandy loam.

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

Fertilization: 94 lb N, 176 lb P₂O₅, and 280 lb K₂O/acre as preplant; 260 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Disked, subsoiled and bedded, rototilled; Atrazine, Prowl, and Accent used for weed control; irrigated 3 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Plains, Georgia:

Short-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Pfister	3366	205.3	.	.	111	0.35	3.5	18.6	30928	100
Augusta Seed	5565	202.8	.	.	101	0.41	2.5	18.4	28435	100
Phoenix	6522	198.4	.	.	100	0.40	3.0	20.0	29330	99
Croplan Genetics	6960 VT3 PRO	191.3	.	.	105	0.36	4.0	18.7	29185	100
DeKalb	DKC65-19 VT3P	191.2	.	.	107	0.35	2.5	19.3	30396	99
Dyna-Gro	D55VP77	188.5	227.7	.	99	0.41	3.5	18.9	27007	100
Terral-REV®	25BHR44™	184.1	.	.	101	0.37	2.5	19.7	29766	100
Dyna-Gro	D54VP81	179.6	202.8	.	102	0.37	4.5	18.9	28459	100
Syngenta NK	N68B-3111	179.0	.	.	103	0.33	3.0	17.5	30614	100
T. A. Seeds	TA765-00	175.3	209.6	212.3	102	0.36	4.0	19.3	28314	99
Dyna-Gro	D55GT73	169.9	.	.	106	0.33	3.5	18.8	28749	98
Augusta Seed	6665	168.2	.	.	111	0.30	4.5	16.7	28604	100
DeKalb	DKC64-99 VT2P	167.1	.	.	111	0.31	5.0	19.4	28436	100
Croplan Genetics	6640 VT3 Pro	166.8	216.2	.	102	0.35	2.5	19.7	27588	99
AgraTech	744VT3PRO	164.5	.	.	99	0.34	2.0	18.7	28314	99
Terral-REV®	17HR73™	164.3	.	.	96	0.34	2.5	17.6	29185	100
Augusta Seed	5262	162.9	.	.	100	0.32	4.0	18.7	29960	99
Pfister	3488	161.6	.	.	103	0.31	5.0	19.8	29621	100
Dyna-Gro	D52VC91	158.8	.	.	104	0.32	4.5	19.6	28459	100
Armor	1555SS	154.9	.	.	102	0.32	4.0	20.5	28604	99
Armor	1133PRO2	151.3	.	.	100	0.31	4.0	18.6	28459	99
Pioneer	P1319HR	149.0	.	.	96	0.31	3.0	18.1	28750	99
Armor	1550PRO2	146.5	.	.	98	0.32	4.5	18.6	27443	98
Augusta Seed	5465GTCGLL	145.8	.	.	104	0.29	4.5	21.2	29040	100
AgraTech	1777GT	142.9	.	.	103	0.29	3.0	19.1	28459	100
Pfister	2674	141.2	.	.	113	0.24	4.5	15.9	29042	100
Armor	1262PRO2	139.2	.	.	111	0.25	4.5	17.7	28895	100
Terral-REV®	22BHR54™	139.2	.	.	104	0.27	4.5	19.0	29330	99
T. A. Seeds	TA753-22DP	134.1	.	.	98	0.27	4.0	18.9	29911	99
Pfister	2770	132.0	.	.	117	0.23	4.5	18.1	28389	99
Terral-REV®	18BHR84™	131.4	.	.	100	0.25	4.5	18.2	29621	98
<i>Average</i>		164.1 ⁴	214.1	212.3	103	0.32	3.7	18.8	28945	99
<i>LSD at 10% Level</i>		29.0	N.S. ⁵	-	7	0.06	-	1.1	N.S.	N.S.
<i>Std. Err. of Entry Mean</i>		12.3	5.6	-	3	0.03	-	0.5	1163	1

Plains, Georgia: Short-Season Corn Hybrid Performance, 2013, 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 = 13.0%, 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: April 11, 2013.
Harvested: August 26, 2013.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Greenville sandy loam.
Soil Test: P = Medium, K = High, and pH = 6.4.
Fertilization: 40 lb N, 190 lb P_2O_5 , and 43 lb K_2O /acre as preplant; 180 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled, rototilled; Atrazine and Prowl used for weed control; applied lime 800 lb/acre; irrigated 1 inch.

Test conducted by A. Coy, W. Jones, D. Pearce, R. Brooke, D Dunn, and B. McCranie.

Plains, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Syngenta NK	N79T-3111	193.2	.	.	100	0.42	2.5	18.9	27334	100
Terral-REV®	28R10™	188.9	223.8	221.2	104	0.34	3.0	18.3	30710	98
Augusta Seed	6866GT3000A	183.6	.	.	100	0.40	2.0	19.6	26898	99
Syngenta NK	N82V-3111	176.6	204.8	.	102	0.36	4.5	19.7	28641	99
Dyna-Gro	D57VP51	176.0	213.0	.	110	0.35	3.0	19.0	27334	98
Pioneer	P1685YHR	175.1	.	.	101	0.33	3.0	18.1	30274	100
AgraTech	84G6 3000GT	172.5	.	.	103	0.39	2.5	19.9	25156	100
Syngenta NK	N74G-3000GT	168.6	.	.	103	0.33	3.0	18.3	29512	99
Croplan Genetics	8621 VT3 Pro	168.5	203.6	.	99	0.32	3.0	16.9	30165	100
Armor	1880PRO2	167.3	.	.	102	0.34	2.5	19.2	28641	99
Augusta Seed	7768	163.1	.	.	102	0.34	4.0	20.4	27987	96
Phoenix	8500	153.3	.	.	102	0.31	4.0	19.3	28205	99
Terral-REV®	26BHR50™	153.2	.	.	101	0.29	2.5	17.9	30289	98
Croplan Genetics	8410 VT3 PRO	150.7	187.3	178	93	0.32	4.0	19.1	29162	100
T. A. Seeds	TA785-13VP	145.8	.	.	105	0.29	4.0	19.0	27769	98
AgraTech	883VT3PRO	144.5	.	.	104	0.30	4.0	18.4	27007	100
Dyna-Gro	DK56VC46	144.5	.	.	107	0.29	2.5	18.5	27878	100
T. A. Seeds	TA780-22DP	135.2	.	.	98	0.31	3.0	18.9	26354	100
Pioneer	P1690YHR	132.7	.	.	102	0.25	4.0	17.3	29521	100
Dyna-Gro	D57VP75	131.2	.	.	107	0.25	4.5	17.8	28641	100
Augusta Seed	7767	130.9	.	.	99	0.27	4.0	19.5	29512	100
AgraTech	903 Viptera	130.5	.	.	115	0.23	4.5	19.5	28968	97
Pioneer	P1636YHR	123.4	178.9	.	107	0.22	4.0	16.3	29375	100
Phoenix	8400	117.1	.	.	98	0.24	4.0	19.2	29839	98
DeKalb	DKC67-57 VT3P	102.3	.	.	112	0.19	4.5	18.0	28532	99
Terral-REV®	28HR20™	100.6	180.7	195.6	99	0.20	4.0	18.40	30870	100
Pioneer	P2023YHR	87.3	.	.	92	0.18	5.0	17.4	30710	99
Syngenta NK	N78S 3111	84.5	158.3	168.6	99	0.19	2.5	18.2	27879	99
Terral-REV®	27HR83™	78.0	158.5	.	94	0.17	3.0	17.9	28096	100
Phoenix	6542	75.7	.	.	106	0.15	4.5	17.6	28858	97
<i>Average</i>		141.8 ⁴	189.9	190.8	102	0.29	3.5	18.5	28671	99
<i>LSD at 10% Level</i>		23.1	N.S. ⁵	N.S.	N.S.	0.06	-	1.2	2165	N.S.
<i>Std. Err. of Entry Mean</i>		9.8	6.7	6.6	4	0.02	-	0.5	920	1

Plains, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 = 13.8%, and df for EMS = 87.
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, 2013.
Harvested: August 26, 2013.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Greenville sandy loam.
Soil Test: P = Medium, K = High, and pH = 6.4.
Fertilization: 40 lb N, 190 lb P_2O_5 , and 43 lb K_2O /acre as preplant; 180 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled, rototilled; Atrazine and Prowl used for weed control; applied lime 800 lb/acre; irrigated 1 inch.

Test conducted by A. Coy, W. Jones, D. Pearce, R. Brooke, D Dunn, and B. McCranie.

Midville, Georgia: Short-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb		%	no.	%
Pfister	3366	231.9	.	.	100	0.43	2.0	18.3	31309	100
Phoenix	6522	220.0	.	.	101	0.41	1.5	18.4	30764	95
Augusta Seed	5262	217.0	.	.	103	0.38	2.5	17.7	32307	96
Dyna-Gro	D55GT73	215.7	.	.	102	0.39	2.0	18.5	31853	53
Augusta Seed	5465GTCGLL	214.2	.	.	104	0.38	3.5	18.8	31490	89
Pfister	2770	210.0	.	.	104	0.38	2.0	18.5	31339	100
Pfister	3488	193.9	.	.	102	0.35	3.0	18.5	31309	87
Pfister	2674	191.6	.	.	107	0.32	2.5	16.1	31581	93
Augusta Seed	5565	188.6	.	.	105	0.34	2.5	17.9	30855	53
T. A. Seeds	TA765-00	186.3	240.0	255.5	104	0.32	2.5	17.8	32035	39
AgraTech	1777GT	186.1	.	.	101	0.34	2.0	18.8	31672	59
Pioneer	P1319R	182.6	.	.	107	0.31	2.5	18.3	32307	21
Dyna-Gro	D52VC91	182.4	.	.	106	0.30	2.0	17.0	32216	75
Terral-REV®	17HR73™	180.6	.	.	115	0.28	2.5	16.5	32307	59
Terral-REV®	22BHR54™	174.4	.	.	105	0.29	3.0	17.3	32307	30
Terral-REV®	25BHR44™	173.2	.	.	105	0.30	2.0	19.0	32307	31
Croplan Genetics	6640 VT3 Pro	170.3	242.2	.	105	0.29	3.0	17.3	31763	45
Dyna-Gro	D55VP77	169.2	226.6	.	99	0.33	2.5	17.8	30038	71
Terral-REV®	18BHR84™	168.6	.	.	108	0.28	3.0	17.2	32307	82
Augusta Seed	6665	165.4	.	.	105	0.28	3.0	16.6	32307	71
AgraTech	744VT3PRO	164.5	.	.	101	0.30	2.0	17.4	31309	58
Armor	1550PRO2	155.8	.	.	100	0.28	2.5	17.4	32307	56
Croplan Genetics	6960 VT3 PRO	150.6	.	.	105	0.26	2.5	17.4	31944	58
Syngenta NK	N68B-3111	148.8	.	.	104	0.26	2.5	16.6	31853	85
DeKalb	DKC64-99 VT2P	146.8	.	.	104	0.25	3.5	17.6	32307	44
T. A. Seeds	TA753-22DP	144.0	.	.	106	0.24	3.0	17.6	32307	34
Armor	1133PRO2	138.2	.	.	101	0.25	2.5	17.5	32035	57
Armor	1555SS	136.2	.	.	102	0.24	3.0	18.4	31763	37
Armor	1262PRO2	117.3	.	.	96	0.23	3.0	16.4	30492	32
DeKalb	DKC65-19 VT3P	111.1	.	.	103	0.20	2.5	17.2	32035	27
Dyna-Gro	D54VP81	111.0	186.4	.	101	0.20	3.0	17.0	31853	27
<i>Average</i>		172.5 ⁴	223.8	255.5	103	0.30	2.6	17.6	31761	60
<i>LSD at 10% Level</i>		24.1	20.3	-	6	0.05	-	0.6	N.S. ⁵	30
<i>Std. Err. of Entry Mean</i>		10.2	8.2	-	2	0.02	*	0.2	685	12

Midville, Georgia: Short-Season Corn Hybrid Performance, 2013, 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 = 11.9%, and df for EMS = 90.
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 18, 2013.
Harvested: August 28, 2013.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Tifton sandy loam.
Soil Test: P = Medium, K = Medium, and pH = 6.4.
Fertilization: 100 lb N, 180 lb P_2O_5 , and 250 lb K_2O /acre as preplant; 220 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled and bedded, rototilled; Atrazine and Prowl used for weed control; Telone II used for nematode control; irrigated 8 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, B. McCranie, K. Cobb, and R. Milton.

Midville, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----			no.				no.	%
AgraTech	903 Viptera	244.8	.	.	97	0.43	2.5	19.6	32126	88
Augusta Seed	7768	241.3	.	.	100	0.42	2.0	20.6	32307	71
Pioneer	P1690YHR	236.7	.	.	100	0.43	2.5	18.8	32035	88
Phoenix	8400	234.6	.	.	98	0.41	2.0	19.1	32307	66
Terral-REV®	27HR83™	231.3	255.7	.	99	0.41	2.0	18.8	32126	99
Augusta Seed	7767	227.6	.	.	100	0.39	2.0	19.3	32307	94
Syngenta NK	N78S 3111	227.5	255.8	252.8	99	0.39	3.0	18.7	32307	99
T. A. Seeds	TA785-13VP	226.4	.	.	99	0.40	2.5	18.9	31490	98
Terral-REV®	28R10™	225.2	260.4	263.1	105	0.36	2.5	19.0	32307	97
Pioneer	P1685YHR	224.6	.	.	100	0.37	3.0	18.1	32307	94
Armor	1880PRO2	219.3	.	.	99	0.37	1.5	18.6	32216	95
Croplan Genetics	8410 VT3 PRO	218.3	240.9	238.2	99	0.38	1.5	19.3	32307	96
Croplan Genetics	8621 VT3 Pro	217.9	253.2	.	100	0.37	2.5	18.2	32307	86
Terral-REV®	28HR20™	217.4	259.2	257.5	99	0.38	2.5	19.3	32307	100
Augusta Seed	6866GT3000A	215.8	.	.	100	0.39	2.0	20.3	32307	81
Pioneer	P2023YHR	215.2	.	.	100	0.37	3.0	18.7	32216	98
Dyna-Gro	DK56VC46	214.3	.	.	99	0.36	2.0	18.5	32307	93
Phoenix	6542	214.1	.	.	99	0.37	1.5	18.9	32307	100
T. A. Seeds	TA780-22DP	213.2	.	.	99	0.37	1.0	19.1	32307	100
Pioneer	P1636YHR	212.8	243.1	.	100	0.35	3.5	16.3	32307	98
Dyna-Gro	D57VP51	212.7	250.9	.	97	0.39	2.0	19.4	32216	98
Terral-REV®	26BHR50™	211.4	.	.	98	0.39	2.5	19.8	31490	79
AgraTech	84G6 3000GT	211.2	.	.	99	0.37	2.5	19.7	32307	83
Syngenta NK	N79T-3111	208.0	.	.	98	0.39	2.5	18.3	31853	82
AgraTech	883VT3PRO	207.7	.	.	96	0.40	2.0	18.6	31763	99
Phoenix	8500	204.0	.	.	99	0.35	2.5	19.6	32307	83
DeKalb	DKC67-57 VT3P	203.0	.	.	100	0.34	1.5	18.1	32307	82
Syngenta NK	N82V-3111	202.2	240.4	.	100	0.36	2.0	19.4	32307	48
Syngenta NK	N74G-3000GT	194.7	.	.	100	0.35	2.0	19.4	31944	96
Dyna-Gro	D57VP75	166.6	.	.	100	0.29	2.5	18.8	32307	29
Average		216.7 ⁴	251.0	252.9	99	0.38	2.2	19.0	32177	87
LSD at 10% Level		19.9	N.S. ⁵	9.0	2	0.04	-	0.6	N.S.	19
Std. Err. of Entry Mean		8.4	4.6	3.7	1	0.02	*	0.2	251	8

Midville, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 = 87.
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 18, 2013.
Harvested: August 28, 2013.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Tifton sandy loam.
Soil Test: P = Medium, K = Medium, and pH = 6.4.
Fertilization: 100 lb N, 180 lb P_2O_5 , and 250 lb K_2O /acre as preplant; 220 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled and bedded, rototilled; Atrazine and Prowl used for weed control; Telone II used for nematode control; irrigated 8 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, B. McCranie, K. Cobb, and R. Milton.

Piedmont Region

Griffin, Georgia:

Short-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb			no.	%
Pioneer	P1319HR	277.5	.	.	100	0.46	2.1	16.3	34243	100
Terral-REV®	25BHR44™	271.5	.	.	100	0.46	1.9	17.2	34001	100
Croplan Genetics	6960 VT3 PRO	270.3	.	.	101	0.47	1.8	15.7	32065	100
Croplan Genetics	6640 VT3 Pro	268.7	268.9	.	101	0.48	1.5	16.0	31339	100
Augusta Seed	5565	260.5	.	.	101	0.43	1.5	16.2	33759	100
Dyna-Gro	D55VP77	259.4	.	.	101	0.43	1.5	16.6	34001	100
Augusta Seed	5262	258.8	.	.	100	0.43	2.5	16.1	33759	100
Terral-REV®	18BHR84™	254.1	.	.	102	0.42	2.1	14.7	32791	100
AgraTech	1777GT	251.6	.	.	100	0.49	2.6	16.7	29161	100
T. A. Seeds	TA765-00	249.7	244.0	.	100	0.44	2.0	16.3	32065	100
DeKalb	DKC64-99 VT2P	249.6	.	.	100	0.42	2.3	16.4	33638	100
DeKalb	DKC65-19 VT3P	249.5	.	.	100	0.42	1.6	16.3	33880	100
Augusta Seed	5465GTCGLL	247.7	.	.	100	0.43	1.9	17.1	33033	100
Armor	1555SS	246.4	.	.	100	0.44	1.6	17.6	32065	100
Terral-REV®	17HR73™	245.4	.	.	100	0.40	1.9	15.4	34071	100
T. A. Seeds	TA753-22DP	244.2	.	.	100	0.42	1.6	15.5	32549	100
Pfister	3488	242.5	.	.	100	0.43	1.9	17.4	32186	100
Syngenta NK	N68B-3111	242.0	.	.	100	0.40	2.5	15.1	33880	100
Armor	1550PRO2	238.3	.	.	100	0.42	2.5	15.6	31581	100
Armor	1133PRO2	234.0	.	.	100	0.41	1.6	15.6	31823	100
Pfister	2674	233.7	.	.	99	0.40	1.8	14.5	32549	99
Terral-REV®	22BHR54™	231.4	.	.	104	0.38	2.8	15.6	32912	100
Armor	1262PRO2	231.1	.	.	101	0.38	2.5	15.1	33638	100
Augusta Seed	6665	209.5	.	.	105	0.35	1.8	13.1	31581	100
Average		248.6 ⁴	256.5	.	101	0.43	2.0	15.9	32774	100
LSD at 10% Level		22.1	-		2	0.04	0.4	0.6	1544	N.S. ⁵
Std. Err. of Entry Mean		9.4	-		1	0.02	0.2	0.3	655	1

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 7.5%, 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 10, 2013.

Harvested: September 9, 2013.

Seeding Rate: 34,500 seeds/acre in 30" rows.

Soil Type: Cecil sandy loam.

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

Fertilization: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, disked, rotoilled; Lasso, Atrazine, and one cultivation used for weed control; irrigated 1 inch.

Test conducted by J. Gassett and G. Ware.

Griffin, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Dyna-Gro	D57VP51	282.1	.	.	102	0.50	1.5	17.5	31702	100
Terral-REV®	26BHR50™	272.8	.	.	100	0.49	2.0	18.0	32186	100
Augusta Seed	7767	272.1	.	.	100	0.48	1.6	17.5	32307	100
Terral-REV®	27HR83™	270.5	237.6	.	100	0.47	1.8	16.1	32307	100
Terral-REV®	28HR20™	268.9	242.1	219.2	100	0.48	1.8	16.8	32186	100
Pioneer	P1690YHR	267.4	.	.	100	0.47	2.3	16.3	32428	100
Terral-REV®	28R10™	265.6	231.6	212.5	100	0.47	1.8	17.1	32428	100
Croplan Genetics	8621 VT3 Pro	261.4	.	.	100	0.45	1.9	15.9	32428	100
T. A. Seeds	TA780-22DP	260.4	.	.	100	0.46	1.6	17.3	32428	100
Syngenta NK	N82V-3111	259.7	244.2	.	100	0.46	1.5	17.6	32428	100
Dyna-Gro	D57VP75	257.1	.	.	101	0.46	2.4	16.5	31460	100
Augusta Seed	7768	256.4	.	.	101	0.46	2.0	17.6	32065	100
Augusta Seed	6866GT3000A	256.4	.	.	100	0.46	1.8	16.9	31944	100
Armor	1880PRO2	250.3	.	.	100	0.44	1.6	16.2	31944	100
T. A. Seeds	TA785-13VP	247.6	.	.	100	0.44	1.8	16.4	31823	100
Croplan Genetics	8410 VT3 PRO	246.8	233.3	.	100	0.45	1.5	16.8	31460	100
Syngenta NK	N79T-3111	243.6	.	.	99	0.44	2.0	16.7	31460	100
Pioneer	P1636YHR	240.9	.	.	101	0.42	2.3	14.5	31581	100
DeKalb	DKC67-57 VT3P	237.3	.	.	100	0.42	1.4	16.6	32186	100
<i>Average</i>		258.8 ⁴	237.8	215.8	100	0.46	1.8	16.8	32040	100
<i>LSD at 10% Level</i>		20.8	N.S. ⁵	-	N.S.	0.04	0.4	0.8	N.S.	-
<i>Std. Err. of Entry Mean</i>		8.8	7.4	-	1	0.02	0.2	0.4	412	-

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 6.8%, 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 10, 2013.

Harvested: September 9, 2013.

Seeding Rate: 32,500 seeds/acre in 30" rows.

Soil Type: Cecil sandy loam.

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

Fertilization: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, disked, rotoilled; Lasso, Atrazine, and one cultivation used for weed control; irrigated 1 inch.

Test conducted by J. Gassett and G. Ware.

North Georgia Region

Calhoun, Georgia:

Short-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb			no.	%
T. A. Seeds	TA765-00	246.2	153.1	.	100	0.59	1.3	18.9	24394	100
Terral-REV [®]	24BHR93™	230.8	159.9	.	100	0.55	1.5	18.5	24285	98
Pioneer	P1319HR	229.4	.	.	100	0.56	1.5	18.4	23850	98
Terral-REV [®]	25BHR44™	226.7	.	.	100	0.55	1.5	18.9	23958	100
DeKalb	DKC64-99 VT2P	218.2	.	.	100	0.54	1.5	18.1	23523	99
Terral-REV [®]	22BHR43™	214.2	150.0	.	101	0.51	1.5	17.9	24176	100
AgraTech	1777GT	213.3	.	.	101	0.52	1.5	18.9	23741	99
Pfister	2674	212.5	.	.	100	0.50	1.7	17.0	24394	99
Terral-REV [®]	18BHR84™	209.6	.	.	100	0.49	1.9	17.0	24394	98
Croplan Genetics	6525 VT3/P	206.7	.	.	100	0.49	1.4	17.5	24394	98
Augusta Seed	5465GTCGLL	206.7	.	.	100	0.51	1.5	20.4	24285	99
Pfister	3488	205.1	.	.	100	0.50	1.8	20.2	24285	99
Terral-REV [®]	22BHR54™	199.4	.	.	100	0.49	1.9	18.3	23850	100
Augusta Seed	5262	198.8	.	.	98	0.48	2.0	18.2	24285	97
Terral-REV [®]	22BHR21™	196.7	.	.	99	0.47	1.5	18.0	24285	98
Terral-REV [®]	17HR73™	193.4	.	.	97	0.47	1.5	17.5	24176	97
Croplan Genetics	6640 VT3 Pro	187.4	159.7	.	93	0.50	1.6	18.0	23305	98
Croplan Genetics	6265 VT2/P	181.4	.	.	100	0.44	1.5	16.9	23414	100
Syngenta NK	N68B-3111	177.2	.	.	95	0.45	1.6	17.3	23523	98
Augusta Seed	5565	176.8	.	.	96	0.46	1.8	18.4	22869	98
Augusta Seed	6665	175.0	.	.	101	0.45	1.3	18.1	22107	96
Dyna-Gro	D52VC91	174.0	.	.	98	0.45	1.5	17.7	22604	97
Croplan Genetics	6960 VT3 PRO	171.6	.	.	98	0.44	1.5	18.0	23087	94
T. A. Seeds	TA753-22DP	165.5	.	.	94	0.45	1.5	18.2	22869	89
DeKalb	DKC65-19 VT3P	125.3	.	.	75	0.42	1.6	18.3	22974	94
Croplan Genetics	6926 VT3 Pro	115.4	121.8	.	94	0.30	1.8	17.8	23849	97
<i>Average</i>		194.5 ⁴	148.9	.	98	0.48	1.6	18.2	23726	98
<i>LSD at 10% Level</i>		20.1	N.S. ⁵		4	0.05	N.S.	0.7	N.S.	4
<i>Std. Err. of Entry Mean</i>		8.5	5.0		2	0.02	0.1	0.3	559	2

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 8.8 %, 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 23, 2013.

Harvested: September 10, 2013.

Seeding Rate: 24,500 seeds/acre in 30" rows.

Soil Type: Waynesboro loam.

Soil Test: P = High, K = High, and pH = 5.6.

Fertilization: 125 lb N, 65 lb P₂O₅, and 170 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Chiseled, disked, rototilled; Dual, Callisto, Atrazine, and one cultivation used for weed control; applied lime 1.75 tons/acre.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Pioneer	P1690YHR	235.8	.	.	100	0.59	1.5	18.6	23414	100
Syngenta NK	N82V-3111	223.6	174.9	.	99	0.55	1.3	18.5	23740	98
Pioneer	P1636YHR	219.9	.	.	99	0.52	1.6	17.5	24285	99
Dyna-Gro	D57VP75	219.1	.	.	101	0.52	1.6	17.7	23958	100
Terral-REV®	27HR83™	214.9	153.4	.	99	0.54	1.5	18.9	23304	99
Terral-REV®	28HR20™	207.7	127.7	.	98	0.54	1.5	18.9	23196	99
Augusta Seed	7768	206.7	.	.	100	0.52	1.5	20.2	23739	100
Croplan Genetics	8621 VT3 Pro	200.3	174.0	.	100	0.51	1.5	18.4	22978	99
Syngenta NK	N79T-3111	199.3	.	.	100	0.54	1.5	18.5	21706	99
Augusta Seed	7767	196.0	.	.	97	0.58	1.0	20.0	20691	99
T. A. Seeds	TA785-13VP	190.7	.	.	99	0.49	1.3	18.8	22869	99
Augusta Seed	6866GT3000A	187.3	.	.	98	0.51	1.5	20.1	22139	98
Terral-REV®	28R10™	178.1	118.7	.	99	0.52	1.5	19.3	20147	99
DeKalb	DKC67-57 VT3P	175.1	.	.	100	0.43	1.4	18.7	23594	100
Croplan Genetics	8410 VT3 PRO	169.7	133.0	.	95	0.46	1.0	19.8	22869	100
T. A. Seeds	TA780-22DP	166.0	.	.	97	0.51	1.6	19.5	20109	100
<i>Average</i>		199.4 ⁴	146.9	.	99	0.52	1.4	19.0	22671	99
<i>LSD at 10% Level</i>		22.3	N.S. ⁵		N.S.	0.04	-	1.1	2155	N.S.
<i>Std. Err. of Entry Mean</i>		9.4	6.7		1	0.02	-	0.5	908	1

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 9.4%, 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: April 23, 2013.

Harvested: September 10, 2013.

Seeding Rate: 24,500 seeds/acre in 30" rows.

Soil Type: Waynesboro loam.

Soil Test: P = High, K = High, and pH = 5.6.

Fertilization: 125 lb N, 65 lb P₂O₅, and 170 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Chiseled, disked, rototilled; Dual, Callisto, Atrazine, and one cultivation used for weed control; applied lime 1.75 tons/acre.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.

A corn hybrid irrigated trial was planted at this location on April 23, 2013. However, damage from wildlife to the grain crop late in the growing season resulted in some very low grain yields and considerable variation in performance within and among plots in the test. 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 hybrid selections, it will not be presented in the publication.

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

Planted: April 23, 2013.

Harvested: September 10, 2013.

Seeding Rate: 32,500 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

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

Fertilization: 125 lb N, 65 lb P₂O₅, and 170 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Chiseled, disked, rototilled; Dual, Callisto, Atrazine, and one cultivation used for weed control; no irrigation.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Syngenta NK	N82V-3111	260.8	244.0	.	101	0.50	1.5	20.9	30637	99
Croplan Genetics	8621 VT3 Pro	260.4	249.1	.	100	0.52	1.8	19.5	29766	100
Terral-REV®	28HR20™	255.5	198.0	.	100	0.49	1.8	20.1	30637	100
Dyna-Gro	D57VP75	238.3	.	.	101	0.50	1.8	19.6	27878	100
Augusta Seed	6866GT3000A	237.5	.	.	99	0.51	1.5	20.8	27879	99
Pioneer	P1636YHR	234.0	.	.	98	0.50	1.8	19.2	28169	99
Terral-REV®	27HR83™	232.1	217.2	.	101	0.49	1.7	19.3	27733	100
T. A. Seeds	TA780-22DP	219.2	.	.	100	0.41	1.7	19.2	31218	100
Terral-REV®	28R10™	205.8	198.4	.	100	0.44	1.5	20.9	28024	100
Augusta Seed	7767	205.4	.	.	100	0.45	1.2	21.5	27588	99
Pioneer	P1690YHR	202.9	.	.	100	0.44	1.7	20.2	27878	100
Syngenta NK	N79T-3111	201.4	.	.	96	0.44	1.5	20.1	27879	96
T. A. Seeds	TA785-13VP	198.2	.	.	100	0.42	1.2	20.1	27733	100
DeKalb	DKC67-57 VT3P	191.3	.	.	100	0.40	1.3	20.3	28024	99
Croplan Genetics	8410 VT3 PRO	185.8	194.5	.	95	0.43	1.2	20.5	27443	97
Augusta Seed	7768	184.4	.	.	99	0.43	1.7	20.4	26136	98
<i>Average</i>		219.6 ⁴	216.9	.	99	0.46	1.6	20.1	28414	99
<i>LSD at 10% Level</i>		27.6	N.S. ⁵		3	0.05	-	1.4	N.S.	N.S.
<i>Std. Err. of Entry Mean</i>		11.5	9.2		1	0.02	-	0.5	1625	1

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 9.1%, 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: April 23, 2013.

Harvested: September 10, 2013.

Seeding Rate: 32,500 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

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

Fertilization: 125 lb N, 65 lb P₂O₅, and 170 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Chiseled, disked, rototilled; Dual, Callisto, Atrazine, and one cultivation used for weed control; no irrigation.

Test conducted by J. Gasset, G. Ware, and J. Stubbs.

Blairsville, Georgia: Short-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
T. A. Seeds	TA753-22DP	255.8	.	.	100	0.46	1.4	18.0	32371	100
Terral-REV [®]	24BHR93 [™]	247.0	258.2	.	101	0.44	1.8	18.4	32186	100
Croplan Genetics	6960 VT3 PRO	246.7	.	.	100	0.45	1.5	18.0	32065	100
Pioneer	P1319HR	246.5	.	.	101	0.44	1.8	18.1	32307	100
Terral-REV [®]	22BHR43 [™]	240.5	236.1	.	100	0.43	1.5	18.1	32428	100
Terral-REV [®]	22BHR21 [™]	232.1	.	.	100	0.42	1.4	18.2	31944	100
Terral-REV [®]	18BHR84 [™]	230.7	.	.	100	0.41	1.6	18.2	32428	100
Croplan Genetics	6926 VT3 Pro	230.6	238.4	.	100	0.42	1.0	17.6	31702	100
Terral-REV [®]	17HR73 [™]	228.0	.	.	100	0.41	1.1	17.4	32307	100
Dyna-Gro	D52VC91	228.0	.	.	100	0.40	1.8	17.1	32186	100
AgraTech	744VT3PRO	226.6	.	.	100	0.40	1.5	17.9	32307	100
Terral-REV [®]	22BHR54 [™]	225.8	.	.	102	0.40	1.3	17.9	31702	100
Terral-REV [®]	25BHR44 [™]	221.5	.	.	100	0.41	1.3	20.8	32371	100
DeKalb	DKC64-99 VT2P	214.2	.	.	101	0.39	1.1	19.3	32186	100
Croplan Genetics	6525 VT3/P	214.0	.	.	101	0.39	1.6	17.4	31339	100
DeKalb	DKC65-19 VT3P	213.9	.	.	100	0.39	1.4	18.2	32065	100
Croplan Genetics	6640 VT3 Pro	206.3	b	.	101	0.38	1.4	17.3	31460	100
Pfister	3488	202.9	.	.	100	0.38	1.3	20.6	31581	100
Croplan Genetics	6265 VT2/P	201.4	.	.	101	0.36	1.1	17.1	32186	100
Pfister	2674	191.1	.	.	101	0.35	1.8	17.4	31460	100
Syngenta NK	N68B-3111	187.7	.	.	100	0.33	1.5	17.7	32428	100
<i>Average</i>		223.4 ⁴	240.7	.	100	0.40	1.4	18.1	32048	100
<i>LSD at 10% Level</i>		33.2	N.S. ⁵		N.S.	0.06	-	0.7	N.S.	-
<i>Std. Err. of Entry Mean</i>		14.0	12.3		1	0.02	-	0.3	419	-

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 12.6%, 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: May 2, 2013.

Harvested: October 8, 2013.

Seeding Rate: 32,500 seeds/acre in 30" rows.

Soil Type: Suches loam.

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

Fertilization: 113 lb N, 153 lb P₂O₅, and 233 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked; Atrazine and Lasso used for weed control.

Test conducted by J. Gassett, G. Ware, R. Covington, L. Lee, and D. Patterson.

Blairsville, Georgia: Mid-Season Corn Hybrid Performance, 2013, 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 %
		2013	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Croplan Genetics	8621 VT3 Pro	258.6	246.8	.	100	0.47	1.8	19.9	32428	100
Pioneer	P1690YHR	257.9	.	.	101	0.47	2.1	19.8	32307	100
Syngenta NK	N82V-3111	244.6	262.4	.	100	0.45	1.3	20.3	32428	100
Terral-REV®	28HR20™	243.9	262.1	.	100	0.45	2.3	20.3	32428	100
Terral-REV®	28R10™	242.1	260.6	.	101	0.44	1.8	19.6	32065	100
Dyna-Gro	D57VP75	238.0	.	.	100	0.44	1.6	19.1	31339	100
DeKalb	DKC67-57 VT3P	230.3	.	.	100	0.42	1.4	19.5	32428	100
Terral-REV®	27HR83™	228.7	262.4	.	100	0.42	1.5	19.9	32428	100
Syngenta NK	N79T-3111	227.9	.	.	101	0.43	1.5	20.1	31339	100
Pioneer	P1636YHR	222.9	.	.	101	0.41	2.5	18.3	31339	100
T. A. Seeds	TA785-13VP	204.8	.	.	101	0.38	2.1	19.2	31097	100
T. A. Seeds	TA780-22DP	198.4	.	.	100	0.36	1.4	18.9	31944	100
Croplan Genetics	8410 VT3 PRO	174.0	213.4	.	98	0.32	2.1	19.9	32428	100
<i>Average</i>		228.6 ⁴	251.3	.	100	0.42	1.8	19.6	32000	100
<i>LSD at 10% Level</i>		24.6	N.S. ⁵		N.S.	0.04	0.5	0.5	957	-
<i>Std. Err. of Entry Mean</i>		10.3	8.0		1	0.02	0.2	0.2	400	-

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 9.0%, and df for EMS = 36.

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 2, 2013.

Harvested: October 8, 2013.

Seeding Rate: 32,500 seeds/acre in 30" rows.

Soil Type: Suches loam.

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

Fertilization: 113 lb N, 153 lb P₂O₅, and 233 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked; Atrazine and Lasso used for weed control.

Test conducted by J. Gassett, G. Ware, R. Covington, L. Lee, and D. Patterson.

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2013

Company or Brand Name	Hybrid Name	Quality Factors ¹		Grain Portion %	Dry Matter Yield				
		Milk Production ²			Statewide Average	Blairsville	Calhoun	Griffin	Tifton
		lbs/ton DM	lbs/acre						
----- tons/acre -----									
Short-Season									
Augusta Seed	5262	3118	29816	52	9.7	9.5	9.6	10.0	9.6
Augusta Seed	5565	2878	29760	52	.	.	9.6	11.4	10.3
Augusta Seed	6665	2798	28398	58	.	.	8.1	9.6	10.1
DeKalb	DKC63-87(GENV2P)	2891	34459	52	11.0	9.6	11.0	11.5	11.9
DeKalb	DKC64-69(GENV3P)	2875	31457	55	10.3	9.0	9.6	11.5	10.9
Dyna-Gro	D53VC13	2853	29875	53	8.9	8.6	8.0	8.4	10.4
Dyna-Gro	D55GT73	3043	38911	50	10.2	10.0	6.5	11.4	12.8
MC	MCT-6583	2970	30655	46	.	.	.	.	10.3
Pioneer	P1319HR	3234	37113	51	10.7	11.3	9.5	10.4	11.4
Pioneer	P1498YHR	2879	34555	50	10.3	9.8	9.2	10.1	12.0
Syngenta NK	N77P 3111	2956	34307	48	10.2	10.2	9.0	10.0	11.7
T. A. Seeds	TA765-00	3096	39966	49	9.3	6.4	7.8	10.3	12.7
T. A. Seeds	X18691D	3236	33912	53	10.5	11.6	9.2	10.8	10.5
Average		2987	33322	51	10.1	9.6	8.9	10.4	11.1

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2013 (Continued)

Company or Brand Name	Hybrid Name	Quality Factors ¹		Grain Portion %	Dry Matter Yield				
		Milk Production ²			Statewide Average	Blairsville	Calhoun	Griffin	Tifton
		lbs/ton DM	lbs/acre						
----- tons/acre -----									
Mid-Season									
AgraTech	1022HXLL	3321	39763	34	.	.	9.0	11.8	11.9
AgraTech	84G6 3000GT	2773	30247	53	.	.	.	.	10.9
AgraTech	883VT3PRO	2795	28425	51	.	.	.	.	10.2
AgraTech	903 Viptera	2962	35746	48	.	.	.	12.9	12.0
AgraTech	906RR	2901	29884	49	11.1	8.6	13.5	12.2	10.2
AgraTech	999 HXLL	3294	37708	37	.	.	.	.	11.5
Augusta Seed	7768	2806	31210	51	10.1	9.8	8.6	10.9	11.1
Croplan Genetics	8221 VT3	3068	30680	49	10.3	9.3	11.1	10.9	10.0
Croplan Genetics	8621 VT3 Pro	2879	32799	53	11.1	11.1	11.0	11.2	11.4
Croplan Genetics	9009 RH	3448	41033	40	11.1	11.0	10.0	11.4	11.9
DeKalb	DKC67-88(GENVT3P)	2903	35535	46	11.5	10.2	11.3	12.1	12.3
Dyna-Gro	D57VP75	3012	27897	48	10.2	9.9	8.5	13.1	9.3
Dyna-Gro	D59HR50	3057	33238	45	10.6	10.0	11.1	10.6	10.9
Greenwood	GW 3515 RR	3512	34871	53	.	.	.	.	10.0
Greenwood	GW 3560 RR	3044	24016	50	.	.	.	.	7.9
MC	MCT-6753	2966	30724	45	.	.	.	.	10.3
MC	MCT-6894	2891	32811	52	.	.	.	.	11.4
Mycogen	TMF2H918RR	3088	31673	37	10.9	10.2	10.7	12.6	10.3
Mycogen	TMF2L825	3122	32809	35	10.7	10.5	10.4	11.5	10.5
Mycogen	TMF2L874	3166	36550	39	10.8	10.0	9.6	11.8	11.6
Pioneer	P1636YHR	3060	28547	50	.	.	.	.	9.3
Pioneer	P1690YHR	2957	37807	52	.	.	.	.	12.8
Pioneer	P2088YHR	3040	32528	47	.	.	.	.	10.7
Sun Prairie	SPX2979 VT2P	2927	29340	53	9.6	9.5	8.0	10.7	10.0
Sun Prairie	SPX3521 VT3P	2790	29720	52	.	.	.	.	10.7
Sun Prairie	SPX3675 VT3P	2952	33053	49	.	.	.	.	11.2
Syngenta NK	N79A-3111	3092	35291	48	11.0	10.9	10.1	11.6	11.4
Syngenta NK	N79T-3111	2765	28177	53	10.0	10.1	8.7	10.8	10.2
Syngenta NK	N82V-3111	2817	33744	46	9.6	8.9	7.5	10.0	11.9
T. A. Seeds	TA780-22DP	2772	30097	50	9.5	9.8	7.7	9.5	10.8
T. A. Seeds	TA783-13VP	3019	30778	50	9.8	8.6	10.1	10.1	10.2
T. A. Seeds	TA784-13VP	2773	33899	51	11.7	10.4	12.8	11.4	12.2
T. A. Seeds	TA790-20	2682	28186	50	9.9	9.1	10.7	9.5	10.5
T. A. Seeds	X18699D	2949	29542	47	10.1	10.0	9.4	11.0	10.0
T. A. Seeds	X18700D	3072	31215	45	10.7	12.4	8.1	12.2	10.1
T. A. Seeds	X19460	3095	33043	49	10.0	9.8	8.9	10.5	10.7
T. A. Seeds	X19461	2958	32275	43	9.7	8.9	9.2	9.7	10.9
Average		2993	32294	47	10.4	10.0	9.8	11.2	10.8
Overall test averages and statistics:									
Average		2991 ³	32561 ⁴	48	10.3 ⁵	9.9	9.5	11	10.9
LSD at 10% Level		N.S. ⁶	5971	3	0.7	1.6	1.6	1.3	1.3
Std. Err. of Entry Mean		155	2526	1	0.1	0.7	0.7	0.5	0.6

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2013 (Continued)

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 = 7.1%, and df for EMS = 49.
4. CV = 10.9%, and df for EMS = 49.
5. CV = 11.7%, and df for EMS = 384.
6. 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 Short-Season Corn Hybrids for Silage Tifton, Georgia, 2013

		Quality Factors ¹								Dry Matter Yield	
Company or Brand Name	Hybrid Name	Milk Production ²		Protein %	NDF %	ADF %	TDN %	NDF48 ³ %	Ash %	Grain	
		lbs/ton DM	lbs/acre							Portion %	Tifton tons/acre
Short-Season											
Augusta Seed	5262	3118	29816	8.7	32.4	18.2	74.9	3.6	72.5	52	9.6
Augusta Seed	5565	2878	29760	9.2	26.9	14.0	77.6	3.7	72.5	52	10.3
Augusta Seed	6665	2798	28398	8.4	24.5	13.4	78.0	3.5	76.9	58	10.1
DeKalb	DKC63-87(GENV2P)	2891	34459	9.3	26.8	13.8	77.7	3.3	73.3	52	11.9
DeKalb	DKC64-69(GENV3P)	2875	31457	8.8	27.6	15.6	76.6	3.5	72.0	55	10.9
Dyna-Gro	D53VC13	2853	29875	8.9	28.3	14.4	77.3	3.5	69.6	53	10.4
Dyna-Gro	D55GT73	3043	38911	9.1	26.6	15.0	76.9	3.2	75.5	50	12.8
MC	MCT-6583	2970	30655	9.2	30.5	15.1	76.9	3.7	69.3	46	10.3
Pioneer	P1319HR	3234	37113	9.3	35.8	18.4	74.8	3.3	68.8	51	11.4
Pioneer	P1498YHR	2879	34555	9.2	26.6	13.1	78.2	3.5	73.1	50	12.0
Syngenta NK	N77P 3111	2956	34307	9.1	28.3	15.8	76.4	3.3	72.8	48	11.7
T. A. Seeds	TA765-00	3096	39966	9.2	32.1	17.7	75.2	3.6	70.5	49	12.7
T. A. Seeds	X18691D	3236	33912	8.8	24.1	12.7	78.4	3.7	70.1	53	10.5
<i>Average</i>		2987 ⁴	33322 ⁵	9.0	28.5	15.2	76.8	3.5	72.1	51	11.1
<i>LSD at 10% Level</i>		N.S. ⁶	N.S.	0.5	5.8	3.3	2.1	N.S.	N.S.	3	1.0
<i>Std. Err. of Entry Mean</i>		160	2160	0.2	2.0	1.1	0.5	0.2	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 = 9.2%, and df for EMS = 12.

5. CV = 11.2%, and df for EMS = 12.

6. 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 Mid-Season Corn Hybrids for Silage Tifton, Georgia, 2013

Company or Brand Name	Hybrid Name	Quality Factors ¹								Dry Matter Yield	
		Milk Production ²		Protein %	NDF %	ADF %	TDN %	NDF48 ³ %	Ash %	Grain	
		lbs/ton DM	lbs/acre							Portion %	Tifton tons/acre
Mid-Season											
AgraTech	1022HXLL	3321	39763	10.4	39.5	20.5	73.3	64.1	4.2	34	11.9
AgraTech	84G6 3000GT	2773	30247	8.9	22.7	13.0	78.2	78.3	3.5	53	10.9
AgraTech	883VT3PRO	2795	28425	9.2	24.8	14.6	77.2	73.3	3.7	51	10.2
AgraTech	903 Viptera	2962	35746	9.3	27.9	15.8	76.5	73.4	3.7	48	12.0
AgraTech	906RR	2901	29884	9.4	27.1	15.0	76.9	72.3	3.8	49	10.2
AgraTech	999 HXLL	3294	37708	9.6	35.2	18.7	74.5	70.9	3.8	37	11.5
Augusta Seed	7768	2806	31210	8.8	26.9	14.2	77.5	70.7	3.1	51	11.1
Croplan Genetics	8221 VT3	3068	30680	9.2	31.8	17.5	75.3	70.0	3.8	49	10.0
Croplan Genetics	8621 VT3 Pro	2879	32799	8.8	26.2	14.4	77.3	75.1	3.8	53	11.4
Croplan Genetics	9009 RH	3448	41033	10.3	38.5	20.6	73.3	69.3	4.2	40	11.9
DeKalb	DKC67-88(GENVT3P)	2903	35535	8.7	30.9	16.4	76.1	67.2	3.4	46	12.3
Dyna-Gro	D57VP75	3012	27897	8.8	31.0	16.6	75.9	70.7	3.6	48	9.3
Dyna-Gro	D59HR50	3057	33238	9.0	31.7	17.8	75.1	70.4	3.8	45	10.9
Greenwood	GW 3515 RR	3512	34871	8.9	25.5	14.1	77.6	78.0	3.4	53	10.0
Greenwood	GW 3560 RR	3044	24016	9.2	29.5	15.0	77.0	73.7	3.7	50	7.9
MC	MCT-6753	2966	30724	9.0	30.4	15.7	76.5	69.3	3.1	45	10.3
MC	MCT-6894	2891	32811	9.5	26.7	14.3	77.4	72.6	3.4	52	11.4
Mycogen	TMF2H918RR	3088	31673	10.0	31.6	17.4	75.4	69.3	4.0	37	10.3
Mycogen	TMF2L825	3122	32809	8.7	31.6	18.2	74.9	73.3	3.8	35	10.5
Mycogen	TMF2L874	3166	36550	9.3	34.5	18.5	74.7	68.5	3.9	39	11.6
Pioneer	P1636YHR	3060	28547	9.8	29.5	15.6	76.5	72.9	3.5	50	9.3
Pioneer	P1690YHR	2957	37807	8.9	28.9	15.7	76.5	72.3	3.3	52	12.8
Pioneer	P2088YHR	3040	32528	8.9	30.2	16.1	76.2	72.8	3.3	47	10.7
Sun Prairie	SPX2979 VT2P	2927	29340	9.2	28.9	14.5	77.3	70.4	3.5	53	10.0
Sun Prairie	SPX3521 VT3P	2790	29720	8.8	25.9	14.5	77.3	71.9	3.6	52	10.7
Sun Prairie	SPX3675 VT3P	2952	33053	9.1	29.0	16.2	76.1	71.4	3.8	49	11.2
Syngenta NK	N79A-3111	3092	35291	8.7	33.2	17.8	75.1	69.7	3.5	48	11.4
Syngenta NK	N79T-3111	2765	28177	9.3	24.0	13.3	78.1	73.7	3.7	53	10.2
Syngenta NK	N82V-3111	2817	33744	9.3	24.0	13.1	78.2	75.9	3.5	46	11.9
T. A. Seeds	TA780-22DP	2772	30097	9.1	22.5	13.2	78.1	78.1	3.7	50	10.8
T. A. Seeds	TA783-13VP	3019	30778	9.3	30.0	15.5	76.6	71.4	3.5	50	10.2
T. A. Seeds	TA784-13VP	2773	33899	9.3	25.1	14.3	77.4	71.8	3.7	51	12.2
T. A. Seeds	TA790-20	2682	28186	8.9	23.5	13.1	78.2	72.3	3.7	50	10.5
T. A. Seeds	X18699D	2949	29542	9.1	28.7	15.8	76.5	71.6	3.5	47	10.0
T. A. Seeds	X18700D	3072	31215	9.2	31.5	17.3	75.4	70.8	3.7	45	10.1
T. A. Seeds	X19460	3095	33043	9.2	31.2	17.8	75.1	72.4	4.0	49	10.7
T. A. Seeds	X19461	2958	32275	9.0	26.8	15.5	76.6	76.5	3.6	43	10.9
<i>Average</i>		2993 ⁴	32294 ⁵	9.2	29.1	15.9	76.4	72.1	3.6	47	10.8
<i>LSD at 10% Level</i>		338	5980	0.5	5.8	3.3	2.1	N.S. ⁶	N.S.	4	1.3
<i>Std. Err. of Entry Mean</i>		116	1771	0.2	2.0	1.1	0.8	0.2	0.2	1	0.6

Summary of Quality Factors of Mid-Season Corn Hybrids for Silage Tifton, Georgia, 2013 (Continued)

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 = 6.7%, and df for EMS = 36.
5. CV = 10.9%, and df for EMS = 36.
6. 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 ($P = 0.10$).

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2013, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage
		tons/acre					%
Short-Season							
Dyna-Gro	D55GT73	12.8	23.3	55.0	50	32426	.
T. A. Seeds	TA765-00	12.8	23.1	55.4	49	33106	13.7
Pioneer	P1498YHR	12.0	20.3	58.9	50	34630	.
DeKalb	DKC63-87(GENVT2P)	11.9	20.6	57.9	52	34630	13.5
Syngenta NK	N77P 3111	11.6	21.4	54.4	48	34413	.
Pioneer	P1319HR	11.5	19.1	60.0	51	34195	.
DeKalb	DKC64-69(GENVT3P)	10.9	17.2	63.3	55	34848	.
T. A. Seeds	X18691D	10.6	18.4	57.2	53	33106	12.2
Dyna-Gro	D53VC13	10.4	18.7	55.6	53	32452	.
Augusta Seed	5565	10.4	16.1	64.3	52	33759	.
MC	MCT-6583	10.3	19.0	54.3	46	34195	.
Augusta Seed	6665	10.2	17.2	58.8	58	33878	.
Augusta Seed	5262	9.6	17.0	56.6	52	33323	.
Average		11.1 ¹	19.3 ²	57.8	52	33766	13.1
LSD at 10% Level		1.0	1.4	3.6	3	N.S. ³	N.S.
Std. Err. of Entry Mean		0.4	0.6	1.5	1	760	0.3

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2013, Irrigated (Continued)

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage
		tons/acre					Yield
tons/acre							
Mid-Season							
Pioneer	P1690YHR	12.8	22.0	59.0	52	33541	.
DeKalb	DKC67-88(GENVT3P)	12.3	19.7	63.1	46	34630	.
T. A. Seeds	TA784-13VP	12.2	22.6	54.0	51	31799	14.1
AgraTech	903 Viptera	12.0	19.3	62.4	48	32888	.
AgraTech	1022HXLL	12.0	22.2	54.7	34	32670	14.3
Syngenta NK	N82V-3111	12.0	19.9	60.2	46	33541	.
Croplan Genetics	9009 RH	11.9	22.0	54.3	40	33106	.
Mycogen	TMF2L874	11.6	20.7	56.1	39	34848	.
AgraTech	999 HXLL	11.5	19.3	59.9	37	32017	13.5
Croplan Genetics	8621 VT3 Pro	11.4	18.9	60.4	53	34413	13.4
Syngenta NK	N79A-3111	11.4	19.9	57.4	48	34630	.
MC	MCT-6894	11.4	17.4	66.0	52	31581	.
Sun Prairie	SPX3675 VT3P	11.2	19.6	57.5	49	32235	.
Augusta Seed	7768	11.1	20.1	56.6	51	33541	.
AgraTech	84G6 3000GT	10.9	16.8	64.9	53	29839	12.8
T. A. Seeds	X19461	10.9	20.2	54.2	43	34630	.
Dyna-Gro	D59HR50	10.9	18.4	59.2	45	33977	.
T. A. Seeds	TA780-22DP	10.9	18.0	60.9	50	33759	.
Pioneer	P2088YHR	10.7	19.6	55.1	47	32670	13.4
T. A. Seeds	X19460	10.7	19.0	56.5	49	33759	.
Sun Prairie	SPX3521 VT3P	10.7	17.2	63.0	52	34195	.
T. A. Seeds	TA790-20	10.5	17.5	60.3	50	34376	12.1
Mycogen	TMF2L825	10.5	18.0	59.0	35	33323	.
MC	MCT-6753	10.3	18.3	57.3	45	31363	.
Mycogen	TMF2H918RR	10.3	18.1	57.0	37	32017	11.8
AgraTech	906RR	10.3	16.3	64.5	49	34630	.
T. A. Seeds	TA783-13VP	10.2	18.3	56.1	50	33977	11.4
Syngenta NK	N79T-3111	10.2	17.8	57.3	53	32670	.
T. A. Seeds	X18700D	10.2	17.6	57.6	45	33977	13.0
AgraTech	883VT3PRO	10.2	16.2	63.6	51	33106	.
Sun Prairie	SPX2979 VT2P	10.0	17.7	57.3	53	32888	.
Croplan Genetics	8221 VT3	10.0	17.5	57.3	49	31363	12.1
T. A. Seeds	X18699D	10.0	16.5	60.8	47	31363	12.1
Greenwood	GW 3515 RR	10.0	15.9	63.7	53	31363	11.9
Pioneer	P1636YHR	9.3	15.7	60.4	50	29185	.
Dyna-Gro	D57VP75	9.3	15.9	58.9	48	32888	.
Greenwood	GW 3560 RR	7.9	13.0	62.1	50	25919	.
<i>Average</i>		10.8 ⁴	18.4 ⁵	59.1	47	32775	12.7
<i>LSD at 10% Level</i>		1.3	2.8	5.6	4	2059	1.5
<i>Std. Err. of Entry Mean</i>		0.6	1.2	2.4	1	892	0.6

Tifton, Georgia:

Evaluation of Corn Hybrids for Silage, 2013, Irrigated (Continued)

1. CV = 7.4%, and df for EMS = 36.
2. CV = 6.2%, and df for EMS = 36.
3. The F-test indicated no statistical differences at the $\alpha = 0.10$ probability level; therefore an LSD value was not calculated.
4. CV = 10.5%, and df for EMS = 108.
5. CV = 12.9%, and df for EMS = 108.

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

Planted: April 3, 2013.
Harvested: August 2, 2013.
Seeding Rate: 35,000 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.5.
Fertilization: 94 lb N, 176 lb P_2O_5 , and 280 lb K_2O /acre as preplant; 260 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled and bedded, rototilled; Atrazine, Prowl, and Accent used for weed control; Telone II used for nematode control; irrigated 3 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, and B. McCranie.

Griffin, Georgia:

Evaluation of Corn Hybrids for Silage, 2013, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Short-Season							
DeKalb	DKC63-87(GENVT2P)	11.5	22.9	50.3	56	32670	10.7
DeKalb	DKC64-69(GENVT3P)	11.5	22.0	52.2	60	32428	.
Augusta Seed	5565	11.4	20.7	54.9	59	32912	.
Dyna-Gro	D55GT73	11.4	22.0	51.6	54	32670	.
T. A. Seeds	X18691D	10.8	21.0	51.4	55	32186	.
Pioneer	P1319HR	10.4	19.5	53.0	58	32670	.
T. A. Seeds	TA765-00	10.3	20.6	49.9	54	31218	9.7
Pioneer	P1498YHR	10.1	21.6	46.9	57	32670	.
Augusta Seed	5262	10.0	21.2	47.7	60	32428	.
Syngenta NK	N77P 3111	10.0	22.0	45.2	60	32428	.
Augusta Seed	6665	9.6	19.1	50.2	58	32186	.
Dyna-Gro	D53VC13	8.4	17.2	49.0	62	30492	.
Average		10.5 ¹	20.8 ²	50.2	58	32247	10.2
LSD at 10% Level		1.3	1.9	3.7	4	N.S. ³	-
Std. Err. of Entry Mean		0.6	0.8	1.5	2	542	-
Mid-Season							
Dyna-Gro	D57VP75	13.1	26.8	49.0	53	32186	.
AgraTech	903 Viptera	12.9	25.7	50.3	55	31702	.
Mycogen	TMF2H918RR	12.7	29.6	42.8	45	31460	11.5
T. A. Seeds	X18700D	12.2	25.7	47.8	54	32670	.
AgraTech	906RR	12.2	26.0	46.8	52	31944	.
DeKalb	DKC67-88(GENVT3P)	12.1	24.3	50.2	54	30976	.
Mycogen	TMF2L874	11.8	25.7	46.4	48	32670	.
AgraTech	1022HXLL	11.8	27.2	43.3	44	30492	11.4
Syngenta NK	N79A-3111	11.6	24.2	48.1	55	32912	.
Mycogen	TMF2L825	11.5	26.9	42.9	47	32186	.
Croplan Genetics	9009 RH	11.4	28.0	40.7	48	32912	.
T. A. Seeds	TA784-13VP	11.4	26.5	43.2	51	31702	.
Croplan Genetics	8621 VT3 Pro	11.2	22.7	49.7	54	32912	10.2
Greenwood	GW 3540 RR	11.1	23.8	47.1	49	32186	.
T. A. Seeds	X18699D	11.0	21.3	51.7	52	31702	.
Croplan Genetics	8221 VT3	10.9	23.4	46.4	53	31460	.
Augusta Seed	7768	10.9	25.5	42.8	54	31460	.
Syngenta NK	N79T-3111	10.8	23.0	47.1	54	31460	.
Sun Prairie	SPX2979 VT2P	10.7	22.2	48.8	56	32428	.
Dyna-Gro	D59HR50	10.6	23.8	45.0	54	31218	.
T. A. Seeds	X19460	10.5	22.7	46.2	58	32912	.
T. A. Seeds	TA783-13VP	10.2	22.2	45.8	52	31702	.
Syngenta NK	N82V-3111	10.0	21.8	45.7	54	27104	.
T. A. Seeds	X19461	9.7	19.7	48.9	52	32912	.
T. A. Seeds	TA790-20	9.5	19.8	47.8	55	32428	10.1
T. A. Seeds	TA780-22DP	9.5	20.6	46.3	59	32670	.
Average		11.2 ⁴	24.2 ⁵	46.6	52	31860	10.8
LSD at 10% Level		1.3	2.6	3.9	4	1994	-
Std. Err. of Entry Mean		0.5	1.1	1.6	2	846	-

Griffin, Georgia:

Evaluation of Corn Hybrids for Silage, 2013, Irrigated (Continued)

1. CV = 10.8%, and df for EMS = 33.
2. CV = 7.6%, and df for EMS = 33.
3. The F-test indicated no statistical differences at the $\alpha = 0.10$ probability level; therefore an LSD value was not calculated.
4. CV = 9.7%, and df for EMS = 75.
5. CV = 9.0%, and df for EMS = 75.

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

Planted: April 10, 2013.
Harvested: August 27, 2013.
Seeding Rate: 33,000 seeds/acre in 30" rows.
Soil Type: Cecil sandy loam.
Soil Test: P = Medium, K = High, and pH = 6.2.
Fertilization: 75 lb N, 150 lb P_2O_5 , and 225 lb K_2O /acre as preplant; 200 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Subsoiled, disked, rototilled; Lasso, Atrazine, and one cultivation used for weed control; irrigated 1 inch.

Test conducted by J. Gassett and G. Ware.

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2013, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Short-Season							
DeKalb	DKC63-87(GENV2P)	11.0	17.8	62.0	55	32234	11.5
DeKalb	DKC64-69(GENV3P)	9.6	16.6	58.3	61	30274	.
Augusta Seed	5565	9.6	17.1	56.3	61	29838	.
Augusta Seed	5262	9.6	17.0	56.7	54	32234	.
Pioneer	P1319HR	9.5	13.5	69.8	60	28750	.
Pioneer	P1498YHR	9.2	14.4	63.5	56	24829	.
T. A. Seeds	X18691D	9.2	15.2	60.7	59	30928	.
Syngenta NK	N77P 3111	9.0	19.1	47.7	57	31581	.
Augusta Seed	6665	8.1	15.6	52.7	53	28860	.
Dyna-Gro	D53VC13	7.9	13.0	61.1	60	26192	.
T. A. Seeds	TA765-00	7.8	13.1	59.2	56	29621	8.5
Dyna-Gro	D55GT73	6.5	14.1	47.7	55	30928	.
<i>Average</i>		8.9 ¹	15.5 ²	58.0	57	29689	10.0
<i>LSD at 10% Level</i>		1.5	3.2	5.9	4	2760	1.3
<i>Std. Err. of Entry Mean</i>		0.6	1.3	2.5	2	1153	0.5
Mid-Season							
AgraTech	906RR	13.5	23.8	57.2	55	32234	.
T. A. Seeds	TA784-13VP	12.8	20.8	61.4	56	31587	.
DeKalb	DKC67-88(GENV3P)	11.3	20.2	56.0	60	31581	.
Croplan Genetics	8221 VT3	11.1	19.4	58.4	52	28967	12.0
Dyna-Gro	D59HR50	11.1	20.3	55.1	52	31972	.
Croplan Genetics	8621 VT3 Pro	11.0	19.3	58.6	61	30928	11.1
Mycogen	TMF2H918RR	10.7	22.1	50.2	47	30710	10.2
T. A. Seeds	TA790-20	10.7	18.5	57.7	59	31006	10.5
Mycogen	TMF2L825	10.4	17.5	60.9	50	31145	.
T. A. Seeds	TA783-13VP	10.2	18.0	56.3	62	32234	.
Syngenta NK	N79A-3111	10.1	15.8	63.7	58	31581	.
Croplan Genetics	9009 RH	10.0	20.2	49.2	49	30056	.
Mycogen	TMF2L874	9.6	17.6	55.0	50	31799	.
T. A. Seeds	X18699D	9.4	16.6	56.8	51	31297	.
T. A. Seeds	X19461	9.2	16.7	55.7	55	30492	.
AgraTech	1022HXLL	9.0	15.8	57.0	45	29474	9.7
T. A. Seeds	X19460	8.9	16.1	56.5	59	31363	.
Syngenta NK	N79T-3111	8.7	13.8	63.0	58	31392	.
Augusta Seed	7768	8.6	15.8	54.0	54	29621	.
Greenwood	GW 3540 RR	8.5	16.9	50.2	55	24772	.
Dyna-Gro	D57VP75	8.5	16.6	51.1	54	30274	.
T. A. Seeds	X18700D	8.2	14.1	57.7	54	29621	.
Sun Prairie	SPX2979 VT2P	8.0	14.4	57.5	64	30274	.
T. A. Seeds	TA780-22DP	7.7	13.3	58.8	55	32234	.
Syngenta NK	N82V-3111	7.5	12.6	58.9	58	25701	.
<i>Average</i>		9.8 ³	17.4 ⁴	56.7	55	30492	10.7
<i>LSD at 10% Level</i>		1.6	3.2	N.S. ⁵	5	2082	N.S.
<i>Std. Err. of Entry Mean</i>		0.7	1.3	3.2	3	884	0.6

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2013, Irrigated (Continued)

1. CV = 14.4%, and df for EMS = 33.
2. CV = 17.1%, and df for EMS = 33.
3. CV = 13.5%, and df for EMS = 72.
4. CV = 15.5%, and df for EMS = 72.
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 23, 2013.
Harvested: September 10, 2013.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = High, K = High, and pH = 6.2.
Fertilization: 125 lb N, 65 lb P_2O_5 , and 170 lb K_2O /acre as preplant; 200 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Chiseled, disked, rototilled; Dual, Callisto, Atrazine, and one cultivation used for weed control; no irrigation.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Blairsville, Georgia:

Evaluation of Corn Hybrids for Silage, 2013, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter	Grain Portion	Plant Population	2-Yr Avg
		Dry	Green				Dry Forage
		tons/acre					Yield
Short-Season							
T. A. Seeds	X18691D	11.7	20.8	56.6	60	31460	.
Pioneer	P1319HR	11.3	20.4	55.8	60	31944	.
Syngenta NK	N77P 3111	10.2	19.8	51.7	59	31218	.
Dyna-Gro	D55GT73	9.9	24.4	40.5	59	31702	.
Pioneer	P1498YHR	9.8	20.9	46.9	57	29524	.
DeKalb	DKC63-87(GENV2P)	9.6	17.4	55.7	59	31460	10.8
Augusta Seed	5262	9.5	18.6	50.9	60	31702	.
DeKalb	DKC64-69(GENV3P)	9.0	16.2	56.1	60	31702	.
Dyna-Gro	D53VC13	8.7	15.6	55.6	60	29282	.
T. A. Seeds	TA765-00	6.4	13.5	47.0	60	27346	9.1
Average		9.6 ¹	18.8 ²	51.7	59	30734	10.0
LSD at 10% Level		1.6	2.7	6.3	4	1677	1.8
Std. Err. of Entry Mean		0.7	1.2	2.7	1	714	0.8
Mid-Season							
T. A. Seeds	X18700D	12.4	27.4	45.6	56	31884	.
Croplan Genetics	8621 VT3 Pro	11.1	24.3	45.1	57	31702	11.9
Croplan Genetics	9009 RH	10.9	26.4	41.1	48	31702	.
Syngenta NK	N79A-3111	10.9	23.0	47.5	57	31944	.
Mycogen	TMF2L825	10.6	18.2	57.9	51	31460	.
T. A. Seeds	TA784-13VP	10.5	22.0	47.9	55	31944	.
DeKalb	DKC67-88(GENV3P)	10.2	18.9	54.3	56	31702	.
Syngenta NK	N79T-3111	10.2	22.5	45.3	59	30734	.
Mycogen	TMF2H918RR	10.2	28.6	35.6	48	31944	11.1
T. A. Seeds	X18699D	10.0	22.7	44.3	54	31944	.
Mycogen	TMF2L874	10.0	23.4	43.0	54	31944	.
Dyna-Gro	D59HR50	9.9	23.0	43.2	53	30976	.
Dyna-Gro	D57VP75	9.9	20.4	49.0	57	31218	.
T. A. Seeds	X19460	9.8	16.6	59.7	53	30008	.
Augusta Seed	7768	9.8	23.6	41.5	56	31944	.
T. A. Seeds	TA780-22DP	9.8	17.3	56.7	55	31944	.
Sun Prairie	SPX2979 VT2P	9.5	20.0	48.1	59	30734	.
Croplan Genetics	8221 VT3	9.3	18.1	51.4	55	30492	10.0
T. A. Seeds	TA790-20	9.1	16.9	54.3	59	31944	8.9
Syngenta NK	N82V-3111	8.9	21.9	41.1	56	31460	.
T. A. Seeds	X19461	8.9	18.7	47.8	56	31702	.
AgraTech	906RR	8.6	24.9	35.2	54	30250	.
T. A. Seeds	TA783-13VP	8.6	15.4	56.1	55	31944	.
Average		10.0 ¹	21.5 ²	47.5	55	31457	10.5
LSD at 10% Level		1.6	2.7	6.3	4	1677	1.8
Std. Err. of Entry Mean		0.7	1.2	2.7	1	714	0.8

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2013, Nonirrigated (Continued)

1. CV = 13.9%, and df for EMS = 72.

2. CV = 11.2%, and df for EMS = 72.

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

Planted: May 2, 2013

Harvested: September 24, 2013.

Seeding Rate: 32,500 seeds/acre in 30" rows.

Soil Type: Suches loam.

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

Fertilization: 113 lb N, 153 lb P_2O_5 , and 233 lb K_2O /acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked; Atrazine and Lasso used for weed control.

Test conducted by J. Gassett, G. Ware, R. Covington, L. Lee, and D. Patterson.

Insect Screening Results

Multiple Insect Resistance in 70 Commercial Corn Hybrids - 2013

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

Commercial corn hybrids were screened for ear- and kernel-feeding insect resistance under the field conditions at Tifton, Georgia. Nineteen hybrids were rated as very good (VG), the highest rating for multiple insect resistance in 2013. Five hybrids were developed utilizing YHR or BHR traits (also known as Optimum® Intrasect™), and one hybrid was developed with Genuity VT Triple PRO (abbreviated as VT3P). The Optimum® Intrasect™ insect protection traits include a combination of two insect protection traits – Herculex® I and YieldGard® Corn Borer, while the VT3PRO traits contain a stack of three *Bt* genes.

The overall insect damage was relatively low in the 2013 trial, in comparison with the previous year; the six groups of ear- and/or kernel-feeding insects in the order of infestation severity were: corn earworm and fall armyworm, stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil. Multiple species of sap beetles were recorded in 2013.

Corn earworm and fall armyworm feeding penetration in corn ears was between 0 and 1.7 cm, which was less than in 2012 (0 - 2.7 cm). Corn earworm and fall armyworm damage was combined because the damage was difficult to separate. Stink bug damage in 2013 was relatively low, ranging from 0 to 1.5% of the kernels per ear. The highest percentage of stink bug-discolored kernels in the previous five years ranged between 0.8 and 5.6%. Sap beetle damage was 0 to 2%, which is significantly higher than 0 to 0.3% in 2012. Pink scavenger caterpillar damage was about 0 to 0.5% in 2013, which is the same as in 2012 (0 to 0.5% of the kernels).

Damage and losses by the sap beetles could have been caused by possibly multiple generations of these insects as the crop matures in the field. Maize weevil infestation at harvest with 19% kernel moisture was low at none to seven weevils per ear. The high level of sap beetle damage, as well as relatively low level of the stink bug damage, might be caused by the frequent rainfall after pollination in 2013. In addition, cool temperature in April and May led to late pollination in 2013 (ranging from 65-74 days), and the accumulated degree days (above 60°F in April and May) were only 69% of the previous three-year average.

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 also examined in 2013. Husk tightness was assigned using a scale of 1 to 5, in which 1 = very loose and 5 = very tight. Because average rating for husk tightness was between 2.6 and 4.8, only medium (M) (ratings = 2.6 - 3.9), and tight (T) (ratings > 4) are given in the table. Husk extension was between 0.3 and 7.6 cm. The ear-feeding insect damage was not correlated to either husk tightness or husk extension in the 2013 data.

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 lowest amount of insect damage, while P represents the greatest amount of insect damage in 2013.

The rankings of the 70 hybrids for multiple insect resistance in the table was based on the results of the principal component analysis using corn husk extension and tightness, and 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. Please refer to other reports for yield data.

Hybrids resistant to multiple insects are highly recommended for planting. They are the most economical control tactic, especially in late plantings, for reducing insect related 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 2, 2013, and harvested August 26-28, 2013. Kernel moisture was approximately 19% at harvest. The experimental plots were thinned to 20,000 plants per acre and maintained using local Extension recommended agronomic practices by Penny Tapp and Trevor Perla (USDA-ARS, Tifton, Georgia). The data were collected by Austin Overton, Jonathan Roberts, and Penny Tapp (USDA-ARS, Tifton, Georgia), and Xing Wei (University of Georgia).

Ear-Feeding Insect Resistance in 70 Commercial Hybrids

Tifton, Georgia, 2013

Fulton, Georgia, 2010						Overall Resistance	
Company or Brand Name	Hybrid Name	Days to Anthesis ¹	Husk Extension (cm)	Husk Tightness ²	2013 FAW+CEW Damage ³ (cm)	to Insect Damage ⁴	
						2013	2 or more years
Greenwood	3515RR	68	3	M	0.9	VG	G-
T.A. Seeds	TA765-00	70	5	M	0.6	VG	G
Terral-REV®	22 BHR 43™	66	6	M	0.4	VG	VG
Dyna-Gro	D55VP77	68	3	M	0.1	VG	VG
Pioneer	P1319HR	66	4	M	0.6	VG	.
Pioneer	P2023YHR	73	2	T	0.5	VG	.
Terral-REV®	22 BHR 21™	73	8	T	0.1	VG	.
Terral-REV®	22 BHR 54™	68	4	M	0.4	VG	.
Terral-REV®	26 BHR 50™	74	6	M	0.6	VG	.
Dyna-Gro	D55GT73	70	5	T	0.3	VG	.
NK	N74G-3000GT	66	5	M	0.4	VG	.
Augusta	7768	69	6	T	0.3	VG	.
Augusta	7767	66	4	T	0.1	VG	.
Augusta	5565	66	3	T	0.3	VG	.
Agra Tech	842VT3PRO	73	5	T	0.5	VG	.
Agra Tech	1777GT	72	5	T	0.5	VG	.
Augusta	6866GT3000A	66	3	M	0.1	VG	.
Phoenix	8400	68	3	M	0.2	VG	.
Phoenix	6522	69	3	M	0.2	VG	.
Terral-REV®	28 HR 20™	74	3	T	1.0	G	G
Terral-REV®	28 R 10™	72	5	T	0.8	G	G
DeKalb	DKC 67-57 VT3P	66	5	T	0.2	G	VG-
DeKalb	DKC 66-19 VT3P	67	3	T	0.5	G	G
NK	N78S-3111	68	2	M	0.4	G	G
Croplan	8410 VT3/P	66	3	T	0.5	G	G+
Terral-REV®	27 HR 83™	70	1	T	0.8	G	G
Terral-REV®	24 BHR 93™	71	4	T	0.7	G	G
T.A. Seeds	TA784-13VP	70	4	M	0.2	G	VG-
T.A. Seeds	X18696D	66	2	T	0.7	G	VG-
NK	N82V-3111	66	2	T	0.3	G	G
Agra Tech	84G 3000GT	66	4	M	0.3	G	.
Croplan	6640 VT3/P	68	3	T	0.3	G	VG-
Terral-REV®	18 BHR 84™	66	5	M	0.1	G	.
Terral-REV®	25 BHR 44™	73	2	T	0.7	G	.
Dyna-Gro	CX12315	67	2	T	0.5	G	.
Dyna-Gro	D57VP75	70	5	M	0.3	G	.
Dyna-Gro	D52VC91	67	3	T	0.1	G	.
Armor	1555PRO3	65	3	T	0.0	G	.
T.A. Seeds	TA780-22DP	67	4	M	0.6	G	.
T.A. Seeds	X19455	69	5	M	0.1	G	.
T.A. Seeds	X19461	68	3	T	0.9	G	.
NK	N79T-3111	66	5	M	0.1	G	.
Augusta	6665	65	4	M	0.0	G	.
Agra Tech	744VT3PRO	66	2	M	0.1	G	.
Greenwood	3540RR	72	3	T	0.9	G	.

Ear-Feeding Insect Resistance in 70 Commercial Hybrids Tifton, Georgia, 2013 (Continued)

Company or Brand Name	Hybrid Name	Days to Anthesis ¹	Husk Extension (cm)	Husk Tightness ²	2013 FAW+CEW Damage ³ (cm)	Overall Resistance to Insect Damage ⁴	
						2013	2 or more years
Phoenix	8500	66	5	M	0.3	G	.
Phoenix	6542	71	3	M	0.2	G	.
Croplan	6960 VT3/P	65	2	M	0.4	F	.
Terral-REV®	17 HR 73™	65	4	M	0.6	F	.
Pioneer	P1636YHR	68	4	M	0.1	F	G-
T.A. Seeds	X18691D	68	5	M	0.1	F	G-
T.A. Seeds	TA785-13VP	70	2	T	0.9	F	G-
T.A. Seeds	X18698D	65	5	M	0.1	F	G
NK	N68B-3111	65	1	M	0.6	F	F-
Dyna-Gro	D57VP51	68	2	M	1.1	F	G-
Dyna-Gro	D54VP81	68	4	M	0.7	F	G-
Croplan	8621 VT3/P	67	2	M	0.3	F	G
Pioneer	P1690YHR	70	4	T	1.5	F	.
Pioneer	P1685YHR	72	1	M	0.6	F	.
T.A. Seeds	TA753-22DP	67	3	M	0.3	F	.
Armor	1880PRO2	70	2	T	1.3	F	.
DeKalb	DKC 64-99 VT2P	69	2	T	0.3	F	.
Augusta	5262	66	2	M	1.2	F	.
Agra Tech	883VT3PRO	70	2	T	0.8	F	.
Greenwood	3560RR	70	1	T	1.3	F	.
Augusta	5465GTCBLL	66	0	M	1.7	F	.
Armor	1133PRO2	69	5	M	0.3	P	.
Armor	1262PO2	67	4	M	0.2	P	.
Armor	1550PRO2	69	4	M	0.3	P	.
T.A. Seeds	X19460	70	2	T	0.6	P	.

1. Days to anthesis is the number of days to flowering at Tifton, Georgia in 2013 after the hybrids were planted on April 2, 2013.

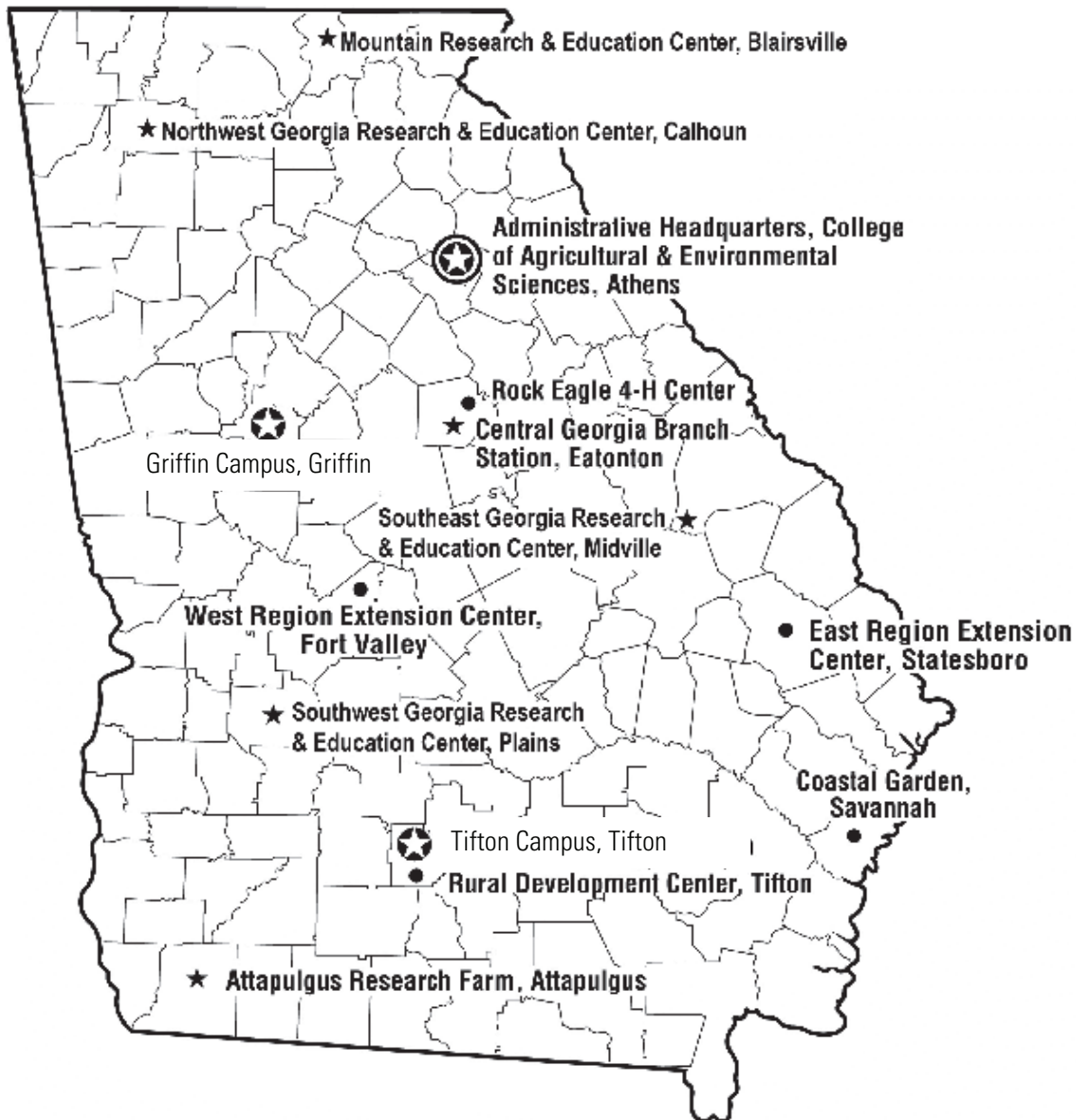
2. L = loose husk, M = medium-tight husk, T = tight husk.

3. FAW+CEW damage denotes the ear penetration (cm) by corn earworm (CEW) and fall armyworm (FAW) feeding.

4. Categorization of insect resistance to key ear-feeding insects (i.e., the corn earworm, the fall armyworm, the stink bugs, the sap beetles, the pink savenger caterpillar, and the maize weevil) was based on principal component analysis. 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 for the average rating represent the inconsistency in the last five years (2009-2013).

Sources of Seed for the 2013 Corn Hybrid Tests

Company or Brand Name	Seed Source
AgraTech	Grabow Seed Services, Inc., 6830 Lisa Lane, Dunwoody, GA 30338.
Armor	Armor Seed, LLC, HWY 49, P.O. Box 9, Waldenburg, AR 72475.
Augusta	Augusta Seed, P.O. Box 899, Verona, VA 24482.
Croplan Genetics	Winfield Solutions, P.O. Box 614, Midland City, AL 36350.
DeKalb	Monsanto Company, 800 N. Lindberg Blvd., St. Louis, MO 63167.
Dyna-Gro	Crop Production Services, 201 N. Bartow Street, Nashville, GA 31639.
Greenwood	Greenwood Hybrids, 8431 Davis Road, Laurel Hill, FL 32567.
MC	Masters Choice, 3010 State Route 146 E., Anna, IL 62906.
Mycogen	Mycogen Seed, P.O. Box 327, Sharptown, MD 21861.
Pfister	Pfister Seeds, LLC, 344 Saddle Club Rd., Clay City, IL 62824.
Phoenix	Triangle Chemical Company, 335 Bussey, Rd., Sycamore, GA 31790.
Pioneer	DuPont Pioneer, 59 Greif Parkway, Suite 200, Delaware, OH 43015.
Sun Prairie	Sun Prairie Seeds, 1676 OR 2200 East, St. Joseph, IL 61873.
Syngenta NK	Syngenta NK Brand Seeds, 13760 Appomattox Circle, Laurinburg, NC 28352.
T.A. Seeds	T.A. Seeds, P.O. Box 300, Avis, PA 17721.
Terral-REV™	Terral Seed, Inc., P.O. Box 826, Lake Providence, LA 71254.



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