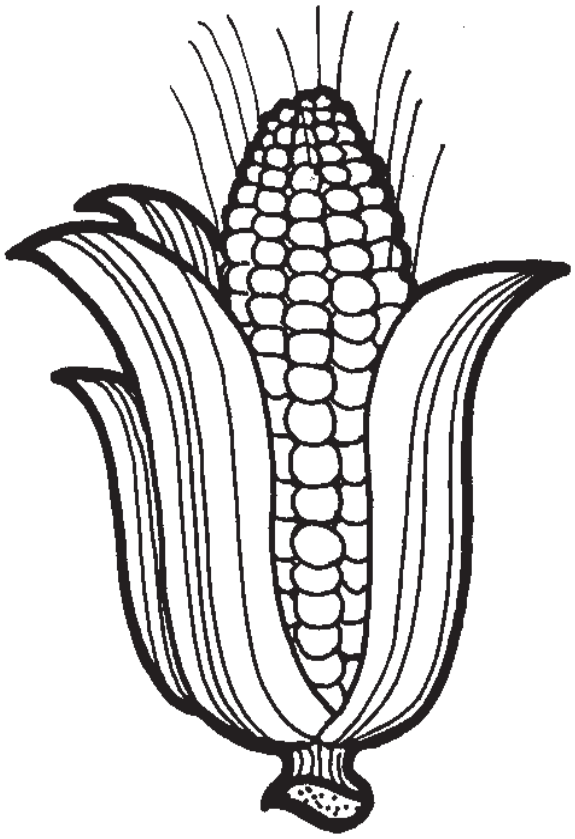
The Georgia Agricultural Experiment Stations
College of Agricultural and Environmental Sciences
The University of Georgia

Annual Publication 101-4
October 2012

Georgia
2012 Corn Performance Tests

Anton E. Coy, J. LaDon Day, and John D. Gassett
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	3.5×10^{-5} ounce

ISSN 0072-128X

PREFACE

In this research report, the results of the 2012 corn performance trials are presented. Corn performance trials were conducted at six locations throughout Georgia (see map inside back cover) in 2012. 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. A plot combine was used for grain harvesting, 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: 2011-2012 Small Grains Performance Tests (Annual Publication #100-4), the 2011 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication #103-3), the 2011 Peanut, Cotton and Tobacco Performance Tests (Annual Publication #104-3), and the 2012 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, Crop and Soil Sciences Department, University of Georgia, Griffin campus, 1109 Experiment Street, Griffin, GA 30223-1797.

Cooperators

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Contributors

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2012 Corn Performance Tests

Edited by
Anton E. Coy, J. LaDon Day, and John D. Gassett

The Season

Georgia experienced another year of lower than normal rainfall. The state was dry as of March 1, although there was adequate planting moisture in most areas. Planting progressed well ahead of 5-year averages with 96% planted by mid-April. By early May, only a quarter of the state had adequate moisture. Except for southeastern Georgia, drought conditions continued through June. Irrigation began during early vegetative corn growth and continued through black layer maturity in much of the state. Irrigation allowed 2/3 to 3/4 of the crop to remain in good condition throughout the season. Summer thunderstorms caused root-lodging problems with some hybrids. Insect and disease pressure was light in general. Excessive August rains caused some harvest and quality problems in southeastern Georgia. Harvest overall was ahead of average.

Seasonal rainfall totals, as shown in the table below, were 6 to 10 inches less than normal in north Georgia, with the most critical area in the Limestone Valley region. In the Coastal Plain area rainfall was 2 to 10 inches above long term average in the east and 14 inches below normal in the west. The area around Plains continued to be the driest for the third straight year.

Growing Season Rainfall[1], 2012

Month	Blairsville	Calhoun[2]	Griffin	Midville	Plains	Tifton
	---------- inches ----------					
February	2.27	3.00	3.91	2.27	2.76	3.61
March	5.58	5.23	4.37	3.63	2.02	4.71
April	3.61	1.48	0.44	1.07	1.49	1.21
May	4.86	2.53	5.02	6.09	1.13	3.48
June	1.02	1.53	1.51	5.52	2.69	5.24
July	6.18	6.47	5.55	3.37	4.01	6.66
August	4.47	3.72	3.90	8.39	1.87	13.41
September	4.56	4.37	3.78	2.02	3.89	3.76
Total (8 mo)	32.55	28.33	28.48	32.36	19.86	42.08
Normal (8 mo)	38.62	38.37	34.43	30.74	33.77	32.24

1. Data submitted by Dr. I. Flitcroft, Georgia Station, Griffin, GA.
2. Floyd County location.

Corn planted totaled 365,000 acres, up 3% from the 345,000 acres in 2011. Corn planted for grain was up 6% from 2011. Only 295,000 acres were harvested for grain. USDA October crop estimates had Georgia corn production at 190 bu/ac (a new state record) for a total crop of 56.1 million bushels. The increase from 2011's 158 bu/ac was due to more irrigation on irrigated acres and non-harvest for grain of many nonirrigated acres.

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Grain Tests Results

Coastal Plain Region

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Variety	Yield			
		Coastal Plain Irrigated Average	Tifton Irrigated	Midville Irrigated	Plains Irrigated
		bu/acre			
Short-Season					
Croplan Genetics	6640 VT3 Pro	**297.3**	**312.2**	**314.2**	**265.6**
Pioneer	P1303HR	274.8	292.0	**302.9**	229.5
T. A. Seeds	TA765-00	276.4	291.5	293.7	243.9
Dyna-Gro	D55VP77	277.6	281.8	284.1	**267.0**
Dyna-Gro	57N73	267.4	279.6	284.9	237.8
Dyna-Gro	D55Q80	265.6	269.7	273.7	**253.5**
DeKalb	DKC62-09(GENVT3P)	278.7	**297.6**	280.4	**258.2**
T. A. Seeds	TA720-20	261.8	272.6	286.5	226.5
T. A. Seeds	TA780-00	262.9	264.6	287.8	236.5
Pioneer	P1456HR	272.4	281.9	293.9	241.4
Syngenta NK	N77P 3111	264.1	282.6	275.3	234.3
T. A. Seeds	TA717-20	253.6	268.6	271.5	220.6
Dyna-Gro	D54VP81	258.0	286.1	261.7	226.1
AgraTech	654 VT3P	248.2	265.3	264.9	214.3
Pioneer	P1498HR	254.2	265.1	268.9	228.7
Average		267.5	280.7	282.9	238.9
LSD at 10% Level		9.4	16.1	14.6	18.4
Std. Err. of Entry Mean		4.0	6.8	6.2	7.8

Coastal Plain Region of Georgia:
Summary of Corn Hybrid Performance, 2012, Irrigated
(Continued)

Company or Brand Name	Variety	Yield			
		Coastal Plain Average	Tifton Irrigated	Midville Irrigated	Plains Irrigated
		bu/acre			
Mid and Full-Season					
Terral-REV™	28HR20™	**279.5**	276.6	**301.0**	**260.9**
Syngenta NK	N82V3000GT	**276.4**	**282.2**	**299.8**	**247.4**
Dyna-Gro	D57VP51	**272.0**	276.8	**289.1**	**250.1**
Terral-REV™	28R10™	**274.7**	269.9	**295.6**	**258.8**
Pioneer	P2088YHR	**272.0**	273.9	**302.6**	239.7
AgraTech	843 VT3P	269.9	270.9	**291.3**	**247.4**
Terral-REV™	29HR13™	265.9	257.2	286.5	**254.1**
Dyna-Gro	CX12 117	268.0	271.3	**291.6**	241.0
AgraTech	828 BL	265.2	273.0	**290.6**	231.9
Terral-REV™	27HR83™	269.3	**288.7**	280.2	239.1
Syngenta NK	N78S 3111	262.7	271.8	284.1	232.1
Croplan Genetics	8621 VT3 Pro	264.2	265.3	**288.5**	238.7
Terral-REV™	26HR50™	270.1	**279.7**	**288.7**	242.0
Syngenta NK	N82V-3111	262.8	276.8	278.6	232.9
DeKalb	DKC66-86(GENVT3P)	261.8	274.0	276.5	234.9
Syngenta NK	N68B-3111	254.4	252.9	271.2	239.3
Pioneer	P1636YHR	262.1	**278.7**	273.3	234.4
Dyna-Gro	D56VP24	256.9	**278.3**	263.4	229.0
Terral-REV™	28HR29™	256.4	258.3	271.9	238.9
Pioneer	P2023HR	259.7	273.1	273.6	232.3
Dyna-Gro	D58VP30	258.3	251.4	279.4	**244.0**
AgraTech	777 GT	255.2	257.0	276.6	231.8
AgraTech	817 VT3P	243.3	256.9	261.4	211.6
Syngenta NK	N78N-3111	260.3	275.9	270.5	234.5
T. A. Seeds	TA790-00	242.7	247.1	269.1	211.8
Croplan Genetics	8410 VT3 PRO	246.1	250.9	263.4	224.0
T. A. Seeds	TA790-20	247.7	246.7	276.4	220.1
Dyna-Gro	D56VP69	249.5	254.8	263.7	230.1
T. A. Seeds	TA780-13V	.	.	264.4	216.0
Pioneer	P1690HR	.	.	**295.0**	**259.7**
AgraTech	808 GTCBLL	.	.	252.5	211.7
Average		261.7	267.5	279.7	236.1
LSD at 10% Level		8.5	11.2	15.2	18.0
Std. Err. of Entry Mean		3.7	4.8	6.4	7.6

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, 2012, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
T. A. Seeds	TA720-20	**140.5**	.	.	100	0.31	2.0	13.8	25374	100
Dyna-Gro	D55Q80	**139.8**	**111.6**	**116.0**	100	0.30	1.0	14.0	25483	98
Dyna-Gro	57N73	**139.6**	**116.5**	**125.1**	100	0.31	1.0	15.5	25374	100
Pioneer	P1303HR	**130.7**	.	.	98	0.29	1.0	14.1	25483	100
AgraTech	654 VT3P	**129.4**	.	.	99	0.29	1.0	14.0	25374	100
T. A. Seeds	TA780-00	**126.1**	.	.	98	0.28	1.0	15.0	25374	100
T. A. Seeds	TA765-00	**124.1**	**118.3**	.	97	0.28	1.0	15.0	25374	100
T. A. Seeds	TA717-20	**123.9**	**110.3**	.	98	0.27	1.0	13.4	25483	99
Croplan Genetics	6640 VT3 Pro	**121.7**	.	.	100	0.26	1.0	14.3	25483	100
Dyna-Gro	D55VP77	**109.8**	.	.	95	0.25	1.0	13.0	25483	100
Dyna-Gro	D54VP81	**105.7**	.	.	98	0.24	1.0	15.0	25374	100
Syngenta NK	N77P 3111	**100.6**	**98.3**	.	100	0.22	1.0	13.0	25483	100
Pioneer	P1498HR	**98.3**	.	.	97	0.22	1.0	13.4	25591	100
DeKalb	DKC62-09(GENVT3P)	**97.3**	.	.	98	0.21	1.0	12.9	25374	100
Pioneer	P1456HR	**79.3**	**79.1**	**96.5**	82	0.21	1.0	13.8	25374	100
Average		117.8[4]	105.7	112.5	97	0.26	1.1	14.0	25432	100
LSD at 10% Level		N.S.[5]	N.S.	N.S,	5	N.S.	.	0.6	N.S.	.
Std. Err. of Entry Mean		15.6	9.7	6.1	2	0.04	.	0.3	117	.

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 26.5%, 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: March 27, 2012.
Harvested: August 13, 2012.
Seeding Rate: 26,000 seeds/acre in 30" rows.
Soil Type: Dothan loamy sand.
Soil Test: P = Medium, K = Medium, and pH = 6.1.
Fertilization: 52 lb N, 64 lb P_2O_5, and 96 lb K_2O/acre as preplant; 134 lb N/acre as sidedress.
Previous Crop: Peanuts.
Management: Disked, subsoiled, bedded, and rototilled; Razencane, Atrazine 4L, Prowl, and Accent Q used for weed control; Lorsban used for insect control.

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

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
AgraTech	817 VT3P	**149.8**	.	.	98	0.37	1.0	15.9	23413	100
Terral-REV™	28HR20™	**148.4**	**115.9**	**122.9**	100	0.37	1.0	17.9	23413	100
Syngenta NK	N68B-3111	**148.0**	.	.	101	0.35	2.0	15.2	23196	100
Syngenta NK	N82V3000GT	**147.5**	**115.0**	**128.7**	97	0.38	2.0	18.1	23196	100
Syngenta NK	N78S 3111	**144.8**	**124.9**	.	101	0.36	1.0	17.1	23087	100
Terral-REV™	29HR13™	**143.3**	.	.	105	0.34	1.0	18.0	23196	100
AgraTech	828 BL	**141.3**	.	.	100	0.35	1.0	17.3	23087	100
Dyna-Gro	D57VP51	**140.4**	.	.	101	0.33	1.0	14.3	23196	100
Terral-REV™	28HR29™	**138.2**	**104.4**	.	99	0.35	1.0	19.4	23196	100
AgraTech	843 VT3P	**137.1**	.	.	100	0.33	1.0	16.0	23087	100
Dyna-Gro	D56VP24	**136.7**	**117.6**	**126.9**	99	0.33	2.0	13.5	23087	100
Dyna-Gro	CX12 117	**135.1**	.	.	98	0.33	1.0	15.2	23196	100
Pioneer	P2088YHR	**134.3**	.	.	98	0.33	1.0	15.4	23196	100
Syngenta NK	N82V-3111	**133.5**	.	.	100	0.32	1.0	15.5	23305	100
Croplan Genetics	8621 VT3 Pro	**131.7**	.	.	103	0.31	2.0	16.1	23087	100
T. A. Seeds	TA790-00	**131.4**	.	.	102	0.31	2.0	15.1	23196	100
DeKalb	DKC66-86(GENVT3P)	**130.9**	.	.	99	0.32	1.0	13.8	23087	100
T. A. Seeds	TA780-13V	**130.6**	.	.	100	0.32	1.0	18.0	23413	100
Terral-REV™	28R10™	**130.0**	**97.2**	**121.8**	98	0.33	1.0	16.9	23196	100
AgraTech	808 GTCBLL	**128.2**	.	.	122	0.26	1.0	17.8	23087	100
Pioneer	P2023HR	**128.0**	**107.0**	**121.7**	102	0.30	1.0	16.6	23305	100
Terral-REV™	27HR83™	**125.7**	.	.	99	0.31	1.0	17.4	23196	100
Pioneer	P1636YHR	**124.2**	.	.	104	0.29	1.0	15.6	23087	100
Dyna-Gro	D58VP30	**120.1**	**92.7**	.	100	0.29	1.0	16.2	23305	100
Croplan Genetics	8410 VT3 PRO	118.4	**110.9**	.	88	0.33	1.0	16.4	23196	100
AgraTech	777 GT	115.4	.	.	100	0.28	1.0	16.0	23087	100
Terral-REV™	26HR50™	113.5	**88.6**	**113.1**	100	0.28	2.0	17.9	23196	100
T. A. Seeds	TA790-20	112.7	.	.	99	0.28	1.0	15.3	23087	100
Dyna-Gro	D56VP69	103.9	**89.2**	.	99	0.26	1.0	16.9	23087	100
Syngenta NK	N78N-3111	83.5	.	.	98	0.20	1.0	16.1	23522	100
Average		130.2[4]	105.8	122.5	100	0.32	1.2	16.4	23199	100
LSD at 10% Level		31.2	N.S.[5]	N.S.	6	0.07	.	1.8	205	.
Std. Err. of Entry Mean		13.3	8.5	7.9	3	0.03	.	0.8	88	.

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2012, 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 = 20.4%, 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:	March 27, 2012.
Harvested:	August 13, 2012.
Seeding Rate:	24,000 seeds/acre in 30" rows.
Soil Type:	Dothan loamy sand.
Soil Test:	P = Medium, K = Medium, and pH = 6.1.
Fertilization:	52 lb N, 64 lb P_2O_5, and 96 lb K_2O/acre as preplant; 134 lb N/acre as sidedress.
Previous Crop:	Peanuts.
Management:	Disked, subsoiled, bedded, and rototilled; Razencane, Atrazine 4L, Prowl, and Accent Q used for weed control; Lorsban used for insect control.

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

Tifton, Georgia:
Short-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Croplan Genetics	6640 VT3 Pro	**312.2**	.	.	100	0.56	1.0	15.4	31146	97
DeKalb	DKC62-09(GENVT3P)	**297.6**	.	.	100	0.52	2.0	14.2	31255	99
Pioneer	P1303HR	292.0	.	.	100	0.51	1.0	15.3	31581	99
T. A. Seeds	TA765-00	291.5	**265.9**	.	100	0.52	3.0	15.0	31146	100
Dyna-Gro	D54VP81	286.1	.	.	100	0.51	1.0	16.2	31472	100
Syngenta NK	N77P 3111	282.6	**268.5**	.	100	0.51	2.0	16.1	31472	98
Pioneer	P1456HR	281.9	**268.3**	**274.0**	101	0.49	1.0	15.7	31799	99
Dyna-Gro	D55VP77	281.8	.	.	97	0.52	1.0	16.3	31472	100
Dyna-Gro	57N73	279.6	**257.8**	261.9	99	0.51	1.0	16.2	31146	95
T. A. Seeds	TA720-20	272.6	.	.	103	0.48	1.0	16.4	31146	100
Dyna-Gro	D55Q80	269.7	250.1	246.9	100	0.49	2.0	16.9	31472	99
T. A. Seeds	TA717-20	268.6	248.2	.	100	0.49	1.0	16.4	30928	100
AgraTech	654 VT3P	265.3	.	.	99	0.48	1.0	15.9	31472	99
Pioneer	P1498HR	265.1	.	.	102	0.46	1.0	15.4	31581	100
T. A. Seeds	TA780-00	264.6	.	.	101	0.47	1.0	15.6	30928	97
Average		280.7[4]	259.8	260.9	100	0.50	1.3	15.8	31334	99
LSD at 10% Level		16.1	15.4	9.8	N.S.[5]	0.03	.	1.0	N.S.	N.S.
Std. Err. of Entry Mean		6.8	6.4	6.9	1	0.01	.	0.4	230	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 4.8%, 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: March 29, 2012.
Harvested: August 27, 2012.
Seeding Rate: 32,000 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.0.
Fertilization: 64 lb N, 152 lb P_2O_5, and 248 lb K_2O/acre as preplant; 268 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled, bedded, and rototilled; Razencane, Atrazine 4L, Prowl, Accent Q used for weed control; Telone II used for nematode control; irrigated 8 inches.

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

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral-REV™	27HR83™	**288.7**	.	.	100	0.61	1.0	15.8	26790	99
Syngenta NK	N82V3000GT	**282.2**	**272.0**	**260.6**	100	0.59	2.0	15.8	26789	99
Terral-REV™	26HR50™	**279.7**	**275.1**	**263.8**	99	0.61	1.0	17.0	26463	96
Pioneer	P1636YHR	**278.7**	.	.	99	0.58	2.0	14.6	27007	100
Dyna-Gro	D56VP24	**278.3**	**263.3**	**249.6**	101	0.58	1.0	15.2	26680	98
Dyna-Gro	D57VP51	276.8	.	.	101	0.59	1.0	16.3	26463	100
Syngenta NK	N82V-3111	276.8	.	.	101	0.57	2.0	15.8	27007	95
Terral-REV™	28HR20™	276.6	**271.7**	**265.8**	101	0.57	1.0	16.0	27007	100
Syngenta NK	N78N-3111	275.9	.	.	101	0.57	1.0	15.7	27007	100
DeKalb	DKC66-86(GENVT3P)	274.0	.	.	100	0.57	1.0	15.6	26898	100
Pioneer	P2088YHR	273.9	.	.	101	0.58	2.0	15.7	26245	99
Pioneer	P2023HR	273.1	**280.8**	**268.7**	101	0.57	2.0	16.3	27007	100
AgraTech	828 BL	273.0	.	.	100	0.58	1.0	15.8	26572	100
Syngenta NK	N78S 3111	271.8	**270.3**	.	100	0.57	2.0	15.7	26898	99
Dyna-Gro	CX12 117	271.3	.	.	98	0.57	1.0	15.5	26898	98
AgraTech	843 VT3P	270.9	.	.	101	0.56	2.0	15.1	26789	96
Terral-REV™	28R10™	269.9	**269.2**	**264.4**	100	0.58	2.0	16.0	26245	100
Croplan Genetics	8621 VT3 Pro	265.3	.	.	100	0.56	2.0	15.0	26572	100
Terral-REV™	28HR29™	258.3	**270.1**	.	101	0.54	2.0	16.4	27007	100
Terral-REV™	29HR13™	257.2	.	.	100	0.55	2.0	16.7	26789	99
AgraTech	777 GT	257.0	.	.	98	0.54	2.0	14.8	27007	99
AgraTech	817 VT3P	256.9	.	.	100	0.53	2.0	15.4	27007	100
Dyna-Gro	D56VP69	254.8	**254.5**	.	99	0.54	2.0	16.1	27007	99
Syngenta NK	N68B-3111	252.9	.	.	102	0.53	2.0	15.3	26245	100
Dyna-Gro	D58VP30	251.4	**264.2**	.	101	0.52	2.0	15.7	27007	100
Croplan Genetics	8410 VT3 PRO	250.9	**248.2**	.	101	0.52	1.0	15.9	27007	98
T. A. Seeds	TA790-00	247.1	.	.	101	0.52	3.0	16.1	26680	98
T. A. Seeds	TA790-20	246.7	.	.	101	0.53	1.0	15.6	25918	100
Average		267.5[4]	267.2	262.1	100	0.56	1.6	15.7	26750	99
LSD at 10% Level		11.2	N.S.[5]	N.S.	2	0.02	.	0.2	490	N.S.
Std. Err. of Entry Mean		4.8	6.1	3.9	1	0.01	.	0.1	209	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 3.9%, and df for EMS = 81.
5. The F-test indicated no statistical differences at the alpha =0 .10 probability level; therefore an LSD value was not calculated.

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

Planted: March 29, 2012.
Harvested: August 27, 2012.
Seeding Rate: 28,000 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.0.
Fertilization: 64 lb N, 152 lb P_2O_5, and 248 lb K_2O/acre as preplant; 268 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled, bedded and rototilled; Razencane, Atrazine 4L, Prowl, Accent Q used for weed control; Telone II used for nematode control; irrigated 8 inches.

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

Tifton, Georgia:
Preliminary Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1]	Ears/100 Plants	Ear Grain Weight	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
666		bu/acre	no.	lb	rating	%	no.	%
T. A. Seeds	X18692	**296.0**	99	0.55	1.0	15.7	30492	100
T. A. Seeds	X18693	**293.5**	100	0.54	1.0	15.6	30710	99
T. A. Seeds	X18698	**291.0**	99	0.54	1.0	16.7	30819	100
T. A. Seeds	X18696	**283.6**	99	0.53	1.0	16.7	31037	100
T. A. Seeds	X18443	278.7	99	0.52	1.0	15.7	30492	100
AgraTech	925 VT3P	274.7	99	0.51	1.0	16.5	30710	100
Southern States	SS 63-32 GENVT3P	269.1	100	0.48	2.0	14.5	31037	100
T. A. Seeds	X18471	267.9	101	0.49	1.0	16.5	30601	98
T. A. Seeds	X18496	267.9	99	0.50	1.0	16.4	31037	100
Southern States	SS 67-32 GENVT3P	267.1	100	0.49	1.0	16.2	30928	100
T. A. Seeds	X18695	267.1	100	0.48	2.0	14.6	30928	100
Greenwood	GW 3500 RR	265.6	101	0.48	2.0	15.3	30492	100
T. A. Seeds	X18691	265.5	101	0.47	1.0	14.8	31145	100
AgraTech	X726 VT3P	264.2	101	0.46	1.0	14.5	31363	99
T. A. Seeds	X18697	258.2	99	0.48	2.0	16.2	30710	100
T. A. Seeds	X17868	252.6	100	0.47	1.0	17.9	30819	100
T. A. Seeds	X18694	252.2	98	0.47	3.0	16.8	31037	100
Southern States	SS 788 GENVT3PRO	246.9	99	0.47	2.0	17.0	30492	100
T. A. Seeds	X17871	245.9	100	0.44	3.0	14.9	31363	100
T. A. Seeds	X18447	245.8	100	0.45	1.0	15.8	30710	100
Average		267.7 [4]	100	0.49	1.5	15.9	30846	100
LSD at 10% Level		14.7	N.S.[5]	0.03	.	1.0	417	N.S.
Std. Err. of Entry Mean		6.2	1	0.01	.	0.4	176	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 4.6%, and df for EMS = 57.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

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

Planted: March 29, 2012.
Harvested: August 27, 2012.
Seeding Rate: 32,000 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = High, K = Medium, and pH = 6.0.
Fertilization: 64 lb N, 152 lb P_2O_5, and 248 lb K_2O/acre as preplant; 268 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Disked, subsoiled, bedded, and rototilled; Razencane, Atrazine 4L, Prowl, and Accent Q used for weed control; Telone II used for nematode control; irrigated 8 inches.

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

Plains, Georgia:
Short-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Dyna-Gro	D55VP77	**267.0**	.	.	105	0.47	1.0	15.0	30492	99
Croplan Genetics	6640 VT3 Pro	**265.6**	.	.	105	0.46	1.0	14.3	30383	100
DeKalb	DKC62-09(GENVT3P)	**258.2**	.	.	104	0.43	2.0	13.5	31363	99
Dyna-Gro	D55Q80	**253.5**	**229.9**	**229.9**	107	0.44	2.0	15.9	30057	100
T. A. Seeds	TA765-00	243.9	**230.7**	.	101	0.43	2.0	14.3	30710	96
Pioneer	P1456HR	241.4	**231.8**	**232.4**	106	0.42	2.0	14.3	29948	93
Dyna-Gro	57N73	237.8	**223.3**	**225.6**	100	0.43	2.0	14.3	30165	98
T. A. Seeds	TA780-00	236.5	.	.	99	0.45	2.0	14.6	29621	96
Syngenta NK	N77P 3111	234.3	**226.4**	.	106	0.40	2.0	14.8	30819	95
Pioneer	P1303HR	229.5	.	.	104	0.41	3.0	13.9	29621	98
Pioneer	P1498HR	228.7	.	.	100	0.42	2.0	14.8	30492	94
T. A. Seeds	TA720-20	226.5	.	.	111	0.38	3.0	14.7	30057	96
Dyna-Gro	D54VP81	226.1	.	.	102	0.41	3.0	15.0	30057	87
T. A. Seeds	TA717-20	220.6	**214.2**	.	106	0.37	2.0	14.8	30819	99
AgraTech	654 VT3P	214.3	.	.	107	0.37	4.0	13.9	29621	93
Average		238.9[4]	226.0	229.3	104	0.42	2.2	14.5	30282	96
LSD at 10% Level		18.4	N.S.[5]	N.S.	4	0.04	0.4	0.4	836	N.S.
Std. Err. of Entry Mean		7.8	5.9	5.5	2	0.02	0.2	0.2	352	3

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 6.4%, and df for EMS = 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 2, 2012.
Harvested: August 25, 2012.
Seeding Rate: 32,000 seeds/acre in 30" rows.
Soil Type: Greenville sandy loam.
Soil Test: P = Medium, K = High, and pH = 6.5.
Fertilization: 35 lb N, 100 lb P_2O_5, and 100 lb K_2O/acre as preplant; 160 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Harrowed, subsoiled, bedded, and rototilled; Atrazine and Prowl used for weed control; irrigated 18 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, R. Pines, and D. Pearce.

Plains, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral-REV™	28HR20™	**260.9**	**243.0**	**238.9**	103	0.53	1.0	15.9	26898	100
Pioneer	P1690HR	**259.7**	.	.	106	0.52	1.0	14.8	26354	100
Terral-REV™	28R10™	**258.8**	**237.3**	**234.8**	104	0.55	2.0	15.9	25700	100
Terral-REV™	29HR13™	**254.1**	.	.	108	0.50	2.0	16.0	26354	99
Dyna-Gro	D57VP51	**250.1**	.	.	103	0.52	2.0	15.3	26136	100
Syngenta NK	N82V3000GT	**247.4**	229.7	225.6	100	0.54	2.0	16.0	25918	95
AgraTech	843 VT3P	**247.4**	.	.	105	0.50	1.0	15.0	26354	100
Dyna-Gro	D58VP30	**244.0**	218.1	.	105	0.51	1.0	15.4	25918	100
Terral-REV™	26HR50™	242.0	212.2	213.6	100	0.53	2.0	16.2	25700	95
Dyna-Gro	CX12 117	241.0	.	.	105	0.48	3.0	14.4	26572	98
Pioneer	P2088YHR	239.7	.	.	103	0.49	3.0	14.6	26245	100
Syngenta NK	N68B-3111	239.3	.	.	101	0.50	1.0	14.4	26354	100
Terral-REV™	27HR83™	239.1	.	.	101	0.50	1.0	15.0	26027	95
Terral-REV™	28HR29™	238.9	229.3	.	101	0.51	2.0	16.5	26680	99
Croplan Genetics	8621 VT3 Pro	238.7	.	.	113	0.45	2.0	14.4	26354	98
DeKalb	DKC66-86(GENVT3P)	234.9	.	.	103	0.48	3.0	14.2	26354	99
Syngenta NK	N78N-3111	234.5	.	.	102	0.48	2.0	15.2	26680	97
Pioneer	P1636YHR	234.4	.	.	109	0.46	3.0	13.2	25700	100
Syngenta NK	N82V-3111	232.9	.	.	101	0.49	2.0	15.0	26027	100
Pioneer	P2023HR	232.3	**232.9**	**233.7**	105	0.49	2.0	15.8	25700	99
Syngenta NK	N78S 3111	232.1	210.7	.	102	0.49	2.0	15.0	26027	97
AgraTech	828 BL	231.9	.	.	103	0.48	1.0	15.4	26245	95
AgraTech	777 GT	231.8	.	.	101	0.48	1.0	14.1	26354	100
Dyna-Gro	D56VP69	230.1	208.3	.	108	0.45	1.0	15.1	26463	100
Dyna-Gro	D56VP24	229.0	208.0	200.2	105	0.47	2.0	14.1	25700	96
Croplan Genetics	8410 VT3 PRO	224.0	191.7	.	102	0.47	2.0	14.9	26027	100
T. A. Seeds	TA790-20	220.1	.	.	105	0.46	4.0	15.8	25700	99
T. A. Seeds	TA780-13V	216.0	.	.	101	0.46	3.0	15.2	26027	98
T. A. Seeds	TA790-00	211.8	.	.	110	0.42	2.0	16.0	26027	100
AgraTech	808 GTCBLL	211.7	.	.	108	0.42	1.0	16.4	26136	97
AgraTech	817 VT3P	211.6	.	.	106	0.42	3.0	14.9	26354	99
Average		236.1[4]	220.1	224.5	104	0.49	1.9	15.2	26164	98
LSD at 10% Level		18.0	12.7	11.4	4	0.04	.	0.4	N.S.[5]	N.S.
Std. Err. of Entry Mean		7.6	5.4	4.8	2	0.02	.	0.2	284	2

Plains, Georgia:
Mid-Season Corn Hybrid Performance, 2012, 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 = 6.5%, 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 2, 2012.
Harvested:	August 26, 2012.
Seeding Rate:	28,000 seeds/acre in 30" rows.
Soil Type:	Greenville sandy loam.
Soil Test:	P = Medium, K = High, and pH = 6.5.
Fertilization:	35 lb N, 100 lb P_2O_5, and 100 lb K_2O/acre as preplant; 160 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Harrowed, subsoiled, bedded, and rototilled; Atrazine and Prowl used for weed control; irrigated 18 inches.

Test conducted by A. Coy, R. Brooke, D. Dunn, R. Pines, and D. Pearce.

Midville, Georgia:
Short-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Croplan Genetics	6640 VT3 Pro	**314.2**	.	.	107	0.52	1.0	16.3	31672	100
Pioneer	P1303HR	**302.9**	.	.	109	0.49	1.5	16.2	32035	99
Pioneer	P1456HR	293.9	**302.4**	**296.6**	107	0.48	1.5	16.3	32216	100
T. A. Seeds	TA765-00	293.7	**290.1**	.	103	0.50	2.5	15.7	31944	100
T. A. Seeds	TA780-00	287.8	.	.	103	0.50	1.0	16.1	31581	92
T. A. Seeds	TA720-20	286.5	.	.	120	0.43	1.0	16.2	31581	100
Dyna-Gro	57N73	284.9	**289.2**	282.3	104	0.48	2.5	15.8	31944	100
Dyna-Gro	D55VP77	284.1	.	.	104	0.48	1.0	16.1	31944	100
DeKalb	DKC62-09(GENVT3P)	280.4	.	.	101	0.47	1.0	15.2	32761	99
Syngenta NK	N77P 3111	275.3	259.1	.	101	0.47	1.0	16.5	32579	76
Dyna-Gro	D55Q80	273.7	272.8	262.9	106	0.46	1.0	17.4	32307	100
T. A. Seeds	TA717-20	271.5	270.7	.	114	0.42	1.5	16.5	32489	99
Pioneer	P1498HR	268.9	.	.	101	0.47	1.0	16.4	32216	99
AgraTech	654 VT3P	264.9	.	.	110	0.43	2.0	15.8	31672	94
Dyna-Gro	D54VP81	261.7	.	.	101	0.46	3.0	15.9	31581	97
Average		282.9[4]	280.7	280.6	106	0.47	1.5	16.2	32035	97
LSD at 10% Level		14.6	14.9	7.3	6	0.02	.	0.3	646	10
Std. Err. of Entry Mean		6.2	6.2	3.0	3	0.01	.	0.1	272	4

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.

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

Planted: April 3, 2012.
Harvested: September 6, 2012.
Seeding Rate: 33,000 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Low, K = Very High, and pH = 6.8.
Fertilization: 120 lb N, 190 lb P_2O_5, and 50 lb K_2O/acre as preplant; 220 lb N/acre as sidedress.
Previous Crop: Peanuts.
Management: Field cultivated, subsoiled, bedded, and rototilled; Atrazine and Prowl used for weed control; Telone II used for nematode control; irrigated 12 inches.

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

Midville, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Pioneer	P2088YHR	**302.6**	.	.	107	0.57	2.0	16.5	28314	99
Terral-REV™	28HR20™	**301.0**	**277.5**	**269.2**	104	0.57	1.0	17.4	28949	100
Syngenta NK	N82V3000GT	**299.8**	**279.7**	**269.0**	100	0.61	1.0	18.1	28314	99
Terral-REV™	28R10™	**295.6**	**282.0**	**272.5**	102	0.58	1.5	17.3	28586	100
Pioneer	P1690HR	**295.0**	.	.	105	0.57	1.0	16.9	28405	100
Dyna-Gro	CX12 117	**291.6**	.	.	103	0.56	1.0	16.1	28314	100
AgraTech	843 VT3P	**291.3**	.	.	112	0.53	1.0	17.9	28496	100
AgraTech	828 BL	**290.6**	.	.	103	0.57	1.0	17.6	28314	99
Dyna-Gro	D57VP51	**289.1**	.	.	105	0.55	1.0	16.7	28586	97
Terral-REV™	26HR50™	**288.7**	**274.6**	**265.1**	99	0.60	1.5	17.7	28314	87
Croplan Genetics	8621 VT3 Pro	**288.5**	.	.	116	0.51	1.5	16.7	28314	99
Terral-REV™	29HR13™	286.5	.	.	103	0.56	1.5	17.3	28314	100
Syngenta NK	N78S 3111	284.1	265.5	.	102	0.56	1.0	16.9	28586	98
Terral-REV™	27HR83™	280.2	.	.	103	0.54	1.5	16.7	28859	100
Dyna-Gro	D58VP30	279.4	261.2	.	109	0.50	1.0	16.6	29131	100
Syngenta NK	N82V-3111	278.6	.	.	101	0.55	1.0	17.3	28496	99
AgraTech	777 GT	276.6	.	.	102	0.54	1.0	16.0	28314	99
DeKalb	DKC66-86(GENVT3P)	276.5	.	.	107	0.51	1.0	15.9	28314	100
T. A. Seeds	TA790-20	276.4	.	.	111	0.50	1.0	17.7	28314	88
Pioneer	P2023HR	273.6	267.5	**267.6**	103	0.54	1.5	17.5	28586	100
Pioneer	P1636YHR	273.3	.	.	102	0.53	1.0	16.1	28768	99
Terral-REV™	28HR29™	271.9	268.4	.	100	0.53	1.0	18.1	29403	100
Syngenta NK	N68B-3111	271.2	.	.	102	0.53	2.0	16.8	28677	99
Syngenta NK	N78N-3111	270.5	.	.	102	0.54	1.0	17.8	28314	90
T. A. Seeds	TA790-00	269.1	.	.	113	0.49	2.0	18.0	28677	95
T. A. Seeds	TA780-13V	264.4	.	.	101	0.52	1.5	17.1	28768	100
Dyna-Gro	D56VP69	263.7	247.6	.	104	0.49	1.0	16.6	29040	100
Croplan Genetics	8410 VT3 PRO	263.4	248.1	.	106	0.51	1.0	17.3	28314	100
Dyna-Gro	D56VP24	263.4	252.0	247.8	100	0.51	1.0	15.3	28586	100
AgraTech	817 VT3P	261.4	.	.	105	0.50	2.0	16.7	28405	95
AgraTech	808 GTCBLL	252.5	.	.	114	0.46	1.0	17.9	28314	98
Average		279.7[4]	265.8	265.2	105	0.54	1.2	17.0	28551	98
LSD at 10% Level		15.2	10.3	7.7	8	0.04	.	0.9	396	N.S.[5]
Std. Err. of Entry Mean		6.4	4.4	3.3	4	0.19	.	0.4	168	3

Midville, Georgia:
Mid-Season Corn Hybrid Performance, 2012, 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 = 4.6%, 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 3, 2012.
Harvested:	September 6, 2012.
Seeding Rate:	29,000 seeds/acre in 30" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = Low, K = Very High, and pH = 6.8.
Fertilization:	120 lb N, 190 lb P_2O_5, and 50 lb K_2O/acre as preplant; 220 lb N/acre as sidedress.
Previous Crop:	Peanuts.
Management:	Field cultivated, subsoiled, bedded, and rototilled; Atrazine and Prowl used for weed control; Telone II used for nematode control; irrigated 12 inches.

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

Piedmont Region

Griffin, Georgia:
Short-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Dyna-Gro	D55Q80	**288.3**	242.3	.	104	0.45	2.0	16.1	35211	99
Pioneer	P1498HR	**279.1**	.	.	101	0.45	1.4	15.1	34001	100
Pioneer	P1303HR	**278.9**	.	.	103	0.43	1.9	15.0	35211	99
T. A. Seeds	TA720-20	**278.0**	.	.	113	0.43	2.1	14.8	32186	96
Croplan Genetics	6640 VT3 Pro	**269.2**	.	.	101	0.44	2.0	14.7	33880	100
AgraTech	654 VT3P	**267.4**	.	.	105	0.41	2.3	14.3	33759	100
DeKalb	DKC62-09(GENVT3P)	**265.7**	.	.	101	0.42	1.6	14.2	34843	99
Dyna-Gro	D54VP81	239.0	.	.	103	0.42	2.1	15.2	30976	100
T. A. Seeds	TA765-00	238.3	.	.	102	0.45	2.0	14.7	29161	98
Average		267.1 [4]	242.3	.	103	0.43	1.9	14.9	33248	99
LSD at 10% Level		28.2	.	.	4	N.S.[5]	0.5	0.8	1766	N.S.
Std. Err. of Entry Mean		11.6	.	.	2	0.01	0.2	0.3	730	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.7%, and df for EMS = 24.
5. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

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

Planted: April 2, 2012.
Harvested: September 12, 2012.
Seeding Rate: 36,000 seeds/acre in 30" rows.
Soil Type: Pacolet coarse sandy loam.
Soil Test: P = High, K = High, and pH = 5.7.
Fertilization: 75 lb N, 150 lb P_2O_5, and 225 lb K_2O/acre as preplant; 225 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Lasso, Atrazine, and Option used for weed control; irrigated 12 inches.

Test conducted by J. Gassett and G. Ware.

Griffin, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
T. A. Seeds	TA790-20	**238.4**	.	.	101	0.40	1.5	15.8	33033	100
DeKalb	DKC66-86(GENVT3P)	**234.3**	.	.	100	0.39	2.1	15.4	33517	100
Dyna-Gro	D56VP24	**232.0**	**216.7**	**221.5**	101	0.40	1.8	14.8	31702	98
Pioneer	P2023HR	**231.3**	**208.3**	**225.7**	101	0.38	1.9	15.8	33638	100
Syngenta NK	N82V-3111	**228.7**	.	.	101	0.41	1.6	15.5	31218	100
Pioneer	P1690HR	**228.0**	.	.	103	0.37	1.9	15.0	33638	99
Terral-REV™	28HR29™	**225.6**	**210.4**	.	101	0.40	1.6	15.3	30976	97
Croplan Genetics	8410 VT3 PRO	**219.9**	.	.	103	0.37	1.8	15.9	33517	100
Pioneer	P2088YHR	**218.6**	.	.	100	0.37	1.6	15.7	33154	100
Terral-REV™	26HR50™	**218.6**	**179.1**	**217.9**	101	0.36	1.8	15.4	33130	97
Terral-REV™	28HR20™	**215.3**	**194.4**	**216.2**	101	0.37	1.5	15.0	32428	99
Syngenta NK	N78S 3111	**213.3**	**204.2**	.	103	0.41	2.0	15.9	28919	99
Syngenta NK	N78N-3111	205.3	.	.	101	0.36	2.0	15.5	31702	98
Terral-REV™	27HR83™	204.7	.	.	101	0.36	2.0	15.4	32065	98
AgraTech	817 VT3P	201.7	.	.	103	0.36	2.5	15.8	30875	97
Terral-REV™	28R10™	197.5	**185.9**	**216.4**	101	0.37	2.0	15.5	30250	90
AgraTech	777 GT	196.0	.	.	101	0.32	2.0	14.6	33033	100
Dyna-Gro	D58VP30	190.3	**187.8**	.	101	0.32	1.5	14.9	32912	92
Syngenta NK	N82V3000GT	189.5	**191.1**	**218.3**	101	0.32	2.4	15.2	33154	97
Terral-REV™	29HR13™	171.7	.	.	101	0.32	1.8	15.3	29766	94
Average		213.0[4]	197.5	219.3	101	0.37	1.9	15.4	32131	98
LSD at 10% Level		31.3	N.S.[5]	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
Std. Err. of Entry Mean		13.2	7.6	5.9	1	0.03	0.2	0.5	1185	3

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 12.4%, and df for EMS = 57.
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 2, 2012.
Harvested:	September 12, 2012.
Seeding Rate:	34,000 seeds/acre in 30" rows.
Soil Type:	Pacolet coarse sandy loam.
Soil Test:	P = High, K = High, and pH = 5.7.
Fertilization:	75 lb N, 150 lb P_2O_5, and 225 lb K_2O/acre as preplant; 225 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Moldboard plowed, disked, and rototilled; Lasso, Atrazine, and Option used for weed control; irrigated 12 inches.

Test conducted by J. Gassett and G. Ware.

North Georgia Region

Calhoun, Georgia:
Short-Season Corn Hybrid Performance, 2012, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Croplan Genetics	6640 VT3 Pro	**132.0**	.	.	101	0.30	2.0	17.4	25701	100
Croplan Genetics	6926 VT3 Pro	**128.1**	.	.	99	0.29	2.4	16.7	25374	100
Dyna-Gro	D54VP81	**117.4**	.	.	98	0.26	1.8	17.2	26463	100
Augusta Seed	A0720GTCBLLC	107.4	.	.	98	0.28	2.1	16.6	22216	96
AgraTech	654 VT3P	100.7	.	.	96	0.22	1.8	15.4	26245	100
Augusta Seed	A0606GTCBLLC	98.5	.	.	96	0.25	2.0	16.5	22978	100
T. A. Seeds	TA720-20	96.2	.	.	94	0.26	2.0	16.5	22325	92
Pioneer	P1498HR	95.3	.	.	96	0.21	2.0	15.0	26136	95
Dyna-Gro	D55Q80	89.2	114.1	.	96	0.21	1.6	17.3	25265	98
Terral-REV™	24BHR93™	89.1	.	.	97	0.21	2.1	16.8	24285	99
Terral-REV™	22BHR43™	85.9	.	.	97	0.22	2.1	15.5	22869	73
Pioneer	P1303HR	77.9	.	.	99	0.17	2.4	13.7	25374	91
DeKalb	DKC62-09(GENVT3P)	70.2	.	.	93	0.16	1.9	11.7	26245	98
Terral-REV™	21HR33™	65.2	.	.	99	0.15	2.1	19.0	25918	94
T. A. Seeds	TA765-00	59.9	.	.	88	0.17	1.9	11.6	21998	88
Average		94.2[4]	114.1	.	96	0.22	2.0	15.8	24626	95
LSD at 10% Level		18.5	.	.	N.S.[5]	0.04	0.3	N.S.	2054	5
Std. Err. of Entry Mean		7.8	.	.	3	0.02	0.1	2.1	864	2

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 16.5%, 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 11, 2012.
Harvested: September 13, 2012.
Seeding Rate: 27,000 seeds/acre in 30" rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = Very High, K = Very High, and pH = 5.8.
Fertilization: 100 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 150 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Dual, Atrazine, Callisto, and one cultivation used for weed control; 1.25 ton/acre limestone.

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

Calhoun, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Croplan Genetics	8621 VT3 Pro	**147.6**	.	.	107	0.36	2.1	16.1	22107	100
Syngenta NK	N82V3000GT	**127.5**	**127.3**	**116.2**	100	0.34	2.1	19.3	21780	100
Syngenta NK	N82V-3111	**126.3**	.	.	100	0.33	1.9	20.3	22651	100
Terral-REV™	25BHR63™	123.2	.	.	98	0.33	2.0	17.0	21780	100
Dyna-Gro	D58VP30	121.7	**129.9**	.	99	0.29	2.0	16.9	24394	99
Croplan Genetics	8505 VT3 PRO	120.8	**140.8**	.	100	0.32	2.0	17.5	21889	100
AgraTech	817 VT3P	117.6	.	.	100	0.30	2.0	17.3	22216	100
Syngenta NK	N78N-3111	117.5	.	.	100	0.29	2.3	17.6	23196	100
DeKalb	DKC66-86(GENVT3P)	116.4	.	.	99	0.32	2.3	16.1	20800	100
Syngenta NK	N78S 3111	114.5	.	.	102	0.28	1.8	17.2	23196	98
Croplan Genetics	7131 VT3	112.1	.	.	105	0.29	2.0	18.1	21695	99
Pioneer	P2088YHR	106.8	.	.	100	0.29	2.6	17.5	21562	94
AgraTech	777 GT	105.9	.	.	94	0.29	2.3	19.4	22651	82
Augusta Seed	A6867GTCBLLC	102.6	.	.	96	0.28	2.0	18.5	21998	89
Croplan Genetics	8410 VT3 PRO	96.3	.	.	96	0.25	1.9	17.3	23196	100
T. A. Seeds	TA790-20	95.5	.	.	101	0.28	2.1	18.6	19602	96
Terral-REV™	27HR83™	91.9	.	.	98	0.24	2.0	18.6	22978	82
Terral-REV™	23RE73™	91.4	.	.	99	0.25	2.3	15.7	20691	89
Terral-REV™	27HR52™	84.7	**115.9**	.	100	0.31	2.3	15.5	15093	92
Dyna-Gro	D56VP24	81.4	**107.3**	**105.5**	99	0.22	2.0	15.8	20800	100
Terral-REV™	26HR23™	75.1	.	.	95	0.20	2.4	16.8	22651	93
Terral-REV™	29HR13™	66.1	.	.	97	0.18	2.0	17.0	21889	70
Pioneer	P2023HR	59.8	**99.2**	**95.3**	89	0.19	2.0	20.0	21756	95
Terral-REV™	28R10™	59.2	.	.	95	0.19	2.4	19.2	19929	92
Terral-REV™	28HR20™	47.7	.	.	99	0.12	2.3	18.4	22652	95
Average		100.4[4]	120.1	105.6	98	0.27	2.1	17.7	21726	94
LSD at 10% Level		21.9	N.S.[5]	N.S.	4	0.06	0.3	1.8	1813	9
Std. Err. of Entry Mean		9.0	7.3	7.1	2	0.02	0.1	0.8	769	4

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 18.5%, 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 11, 2012.
Harvested: September 13, 2012.
Seeding Rate: 25,000 seeds/acre in 30" rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = Very High, K = Very High, and pH = 5.8.
Fertilization: 100 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 150 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Dual, Atrazine, Callisto, and one cultivation used for weed control; 1.25 ton/acre limestone.

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

Calhoun, Georgia:
Short-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Croplan Genetics	6926 VT3 Pro	**250.5**	.	.	105	0.48	1.6	15.7	27879	99
DeKalb	DKC62-09(GENVT3P)	**244.5**	.	.	102	0.50	1.6	14.9	27225	100
Dyna-Gro	D54VP81	**241.7**	.	.	101	0.50	1.3	16.4	27443	100
Pioneer	P1303HR	**241.4**	.	.	107	0.45	1.1	14.8	28096	97
Croplan Genetics	6640 VT3 Pro	**224.7**	.	.	102	0.43	1.5	15.6	28750	100
T. A. Seeds	TA720-20	215.6	.	.	101	0.46	1.8	16.6	26515	95
Terral-REV™	24BHR93™	214.2	.	.	102	0.42	1.3	16.2	28314	97
Terral-REV™	21HR33™	206.8	.	.	102	0.43	1.9	15.5	26898	92
Augusta Seed	A0606GTCBLLC	203.0	.	.	102	0.43	1.8	15.1	25899	98
Pioneer	P1498HR	202.6	.	.	104	0.40	1.4	15.6	27225	99
Terral-REV™	22BHR43™	200.4	.	.	101	0.42	1.5	15.1	26681	100
AgraTech	654 VT3P	199.8	.	.	101	0.37	1.6	14.7	29294	100
T. A. Seeds	TA765-00	191.7	.	.	102	0.39	1.1	15.1	26680	97
Dyna-Gro	D55Q80	186.9	185.1	.	102	0.39	1.4	18.3	27116	100
Augusta Seed	A0720GTCBLLC	185.8	.	.	102	0.46	2.0	16.2	22542	99
Average		214.0[4]	185.1	.	102	0.44	1.5	15.7	27104	98
LSD at 10% Level		27.0	.	.	N.S.[5]	0.06	0.4	1.1	N.S.	4
Std. Err. of Entry Mean		11.4	.	.	2	0.02	0.1	0.4	1220	2

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 10.6%, 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 11, 2012.
Harvested: September 13, 2012.
Seeding Rate: 30,000 seeds/acre in 30" rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = Very High, K = Very High, and pH = 6.3.
Fertilization: 100 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 200 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Dual, Atrazine, Callisto, and one cultivation used for weed control; irrigated 11 inches.

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

Calhoun, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Irrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Syngenta NK	N78N-3111	**240.4**	.	.	102	0.45	1.6	17.8	.	99
Croplan Genetics	8621 VT3 Pro	**237.7**	.	.	109	0.45	1.8	15.4	.	100
Croplan Genetics	8505 VT3 PRO	**235.3**	**212.6**	.	104	0.42	1.3	17.2	.	100
Croplan Genetics	7131 VT3	**232.9**	.	.	106	0.43	2.0	17.0	.	100
Dyna-Gro	D56VP24	**232.8**	**212.7**	**209.8**	100	0.44	1.8	16.0	.	97
Syngenta NK	N82V-3111	**227.2**	.	.	101	0.47	1.5	18.6	.	99
Dyna-Gro	D58VP30	**226.4**	**210.1**	.	103	0.43	1.5	16.4	.	100
Terral-REV™	27HR52™	**226.1**	**205.3**	.	100	0.49	1.9	17.0	.	98
AgraTech	817 VT3P	**225.0**	.	.	106	0.44	1.9	16.7	.	100
Terral-REV™	25BHR63™	**221.5**	.	.	102	0.45	1.8	17.3	.	100
Pioneer	P2023HR	**214.1**	**217.6**	**204.8**	105	0.42	1.6	15.7	.	92
DeKalb	DKC66-86(GENVT3P)	**213.7**	.	.	104	0.44	2.0	15.4	.	100
Terral-REV™	26HR23™	**207.3**	.	.	104	0.39	1.8	15.0	.	98
Croplan Genetics	8410 VT3 PRO	203.2	.	.	99	0.43	1.3	16.5	.	100
Terral-REV™	27HR83™	202.3	.	.	104	0.39	1.3	16.3	.	97
Syngenta NK	N78S 3111	200.2	.	.	103	0.37	1.5	16.5	.	98
Terral-REV™	23RE73™	196.9	.	.	99	0.47	1.6	16.0	.	100
Augusta Seed	A6867GTCBLLC	192.0	.	.	104	0.40	1.6	17.5	.	99
Syngenta NK	N82V3000GT	191.0	**189.5**	**190.2**	101	0.41	1.6	17.8	.	100
Terral-REV™	28R10™	191.0	.	.	102	0.42	1.6	16.8	.	93
Pioneer	P2088YHR	190.4	.	.	104	0.38	2.0	15.6	.	96
T. A. Seeds	TA790-20	190.1	.	.	107	0.40	1.9	16.6	.	98
Terral-REV™	29HR13™	189.1	.	.	103	0.42	1.6	18	.	95
AgraTech	777 GT	172.4	.	.	102	0.35	1.4	16.1	.	90
Terral-REV™	28HR20™	140.5	.	.	101	0.30	1.6	16.8	.	94
Average		208.0 [4]	208.0	201.6	103	0.42	1.7	16.6	.	98
LSD at 10% Level		34.7	N.S.[5]	N.S.	4	0.07	0.4	1.2	.	N.S.
Std. Err. of Entry Mean		14.7	8.9	7.9	2	0.03	0.2	0.5	.	3

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 14.2%, and df for EMS = 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 11, 2012.
Harvested: September 13, 2012.
Seeding Rate: 30,000 seeds/acre in 30" rows.
Soil Type: Rome gravelly clay loam.
Soil Test: P = Very High, K = Very High, and pH = 6.3.
Fertilization: 100 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 200 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Dual, Atrazine, Callisto, and one cultivation used for weed control; irrigated 11 inches.

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

Blairsville, Georgia:
Short-Season Corn Hybrid Performance, 2012, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
DeKalb	DKC62-09(GENVT3P)	**292.2**	.	.	101	0.48	1.1	15.2	34001	100
T. A. Seeds	TA765-00	**284.9**	.	.	102	0.49	2.0	14.7	31911	100
Pioneer	P1498HR	**282.2**	.	.	102	0.46	1.4	15.3	33759	100
Dyna-Gro	D54VP81	**279.4**	.	.	101	0.45	1.8	14.9	34364	100
Pioneer	P1303HR	**273.9**	.	.	105	0.42	1.5	15.1	34364	100
Terral-REV™	24BHR93™	**269.5**	.	.	102	0.44	1.9	14.9	33517	100
T. A. Seeds	TA720-20	**267.9**	.	.	106	0.42	1.5	15.3	33396	100
Dyna-Gro	D55Q80	**257.2**	265.9	.	102	0.40	1.4	16.0	35211	100
Croplan Genetics	6640 VT3 Pro	**253.9**	.	.	101	0.40	1.8	15.0	34727	100
Croplan Genetics	6926 VT3 Pro	246.2	.	.	101	0.41	1.6	14.9	32428	100
Terral-REV™	22BHR43™	231.8	.	.	100	0.38	1.8	15.2	33396	100
Terral-REV™	21HR33™	208.7	.	.	99	0.35	2.0	14.6	33517	100
AgraTech	654 VT3P	203.8	.	.	101	0.33	1.9	14.7	34122	100
Average		257.8[4]	265.9	.	102	0.42	1.7	15.0	33747	100
LSD at 10% Level		40.6	.	.	2	0.07	0.4	0.5	N.S.[5]	.
Std. Err. of Entry Mean		17.0	.	.	1	0.03	0.2	0.2	763	.

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 13.2%, 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 1, 2012.
Harvested: October 26, 2012.
Seeding Rate: 35,500 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 and rototilled; Dual II Magnum, Atrazine, Simazine, Accent Q, Callisto, and two cultivations used for weed control.

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

Blairsville, Georgia:
Mid-Season Corn Hybrid Performance, 2012, Nonirrigated

Company or Brand Name	Hybrid Name	Yield[1] 2012	Yield[1] 2-Yr Avg	Yield[1] 3-Yr Avg	Ears/ 100 Plants	Ear Grain Wt.	Grain Quality[2]	Grain Moist.[3]	Plant Pop.	Erect Plants
		-------- bu/acre --------			no.	lb	rating	%	no.	%
Terral-REV™	26HR23™	**307.3**	.	.	103	0.48	1.5	15.4	34485	100
Pioneer	P2023HR	**298.0**	**324.3**	**293.8**	104	0.47	1.8	15.9	34485	100
Terral-REV™	27HR83™	**296.2**	.	.	103	0.48	1.9	15.5	34122	100
Syngenta NK	N78S 3111	**288.4**	.	.	103	0.45	1.5	15.7	34969	100
AgraTech	817 VT3P	**282.2**	.	.	101	0.46	1.6	15.0	34001	100
Terral-REV™	28HR20™	**280.4**	.	.	105	0.43	1.9	15.8	35090	100
Syngenta NK	N82V-3111	**280.2**	.	.	100	0.48	1.3	15.4	32912	100
Terral-REV™	28R10™	**279.1**	.	.	103	0.49	1.6	15.8	30976	100
Dyna-Gro	D58VP30	**277.8**	.	.	103	0.44	1.3	15.3	34243	100
Syngenta NK	N82V3000GT	275.3	299.8	274.4	101	0.49	1.5	15.5	31581	100
DeKalb	DKC66-86(GENVT3P)	272.3	.	.	103	0.45	1.6	15.4	33154	100
Syngenta NK	N78N-3111	270.6	.	.	101	0.45	1.5	15.0	33168	100
T. A. Seeds	TA790-20	255.7	.	.	105	0.46	1.5	16.3	30613	100
Terral-REV™	29HR13™	255.1	.	.	102	0.45	1.6	15.3	31339	100
Croplan Genetics	8410 VT3 PRO	252.9	.	.	101	0.41	1.3	15.9	34485	100
AgraTech	777 GT	246.7	.	.	104	0.40	1.9	14.6	33275	100
Dyna-Gro	D56VP24	246.0	266.5	243.7	103	0.43	1.5	15.1	31097	100
Terral-REV™	23RE73™	238.1	.	.	100	0.40	1.6	14.8	33033	100
Croplan Genetics	8621 VT3 Pro	235.0	.	.	107	0.40	1.6	15.1	30613	100
Pioneer	P2088YHR	234.6	.	.	102	0.38	2.3	15.3	33759	100
Terral-REV™	27HR52™	226.4	271.8	.	101	0.41	2.6	15.1	30613	100
Terral-REV™	25BHR63™	220.4	.	.	100	0.35	1.9	15.1	34589	100
Average		264.5[4]	290.6	270.6	102	0.44	1.7	15.4	33027	100
LSD at 10% Level		30.2	23.0	17.0	3	0.06	0.3	0.5	1824	.
Std. Err. of Entry Mean		12.8	9.4	7.0	1	0.03	0.1	0.2	772	.

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 9.7%, and df for EMS = 63.

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

Planted: May 1, 2012.
Harvested: October 26, 2012.
Seeding Rate: 35,500 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, and rototilled; Dual II Magnum, Atrazine, Simazine, Accent Q, Callisto, and two cultivations used for weed control.

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

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2012

		Quality Factors[1]			Dry Matter Yield				
		Milk Production[2]							
Company or Brand Name	Hybrid Name	lbs/ton DM	lbs/acre	Grain Portion	Statewide Average	Blairsville	Calhoun	Griffin	Tifton
				%	---------- tons/acre ----------				
Short-Season									
AgraTech	1777	**3537**	48453	47	10.8	11.3	9.5	8.8	13.7
Augusta Seed	A5462GT3000	.	.	29	.	.	10.2	.	.
DeKalb	DKC63-87(GENVT3P)	3259	48877	51	**12.2**	11.9	**12.0**	9.8	**15.0**
Dyna-Gro	57N73	3374	47235	51	11.6	**12.1**	**10.8**	9.7	14.0
Masters Choice	MCT-6583	**3418**	47596	50	11.7	**12.6**	10.2	10.2	13.9
Pioneer	P1404HR	**3562**	50428	47	**11.9**	**12.2**	**10.8**	10.3	14.2
Pioneer	P1498HR	**3573**	53765	49	11.8	**12.6**	10.3	9.3	**15.1**
Southern States	SS 67-32 GENVT3P	**3438**	44778	49	11.4	11.4	10.0	**11.2**	13.0
T. A. Seeds	TA720-20	3390	48640	50	11.1	11.1	9.4	9.7	14.3
T. A. Seeds	TA765-00	**3488**	50836	46	11.2	11.8	9.2	9.1	14.6
T. A. Seeds	X17871	3267	49819	52	.	.	.	.	**15.3**
T. A. Seeds	X18496	**3451**	41403	45	.	.	.	.	12.0
T. A. Seeds	X18691	3264	45129	49	.	.	.	.	13.8
Average		*3418*	*48080*	*49*	*11.5*	*11.9*	*10.2*	*9.8*	*14.1*

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2012 (Continued)

Company or Brand Name	Hybrid Name	Quality Factors[1] Milk Production[2] lbs/ton DM	lbs/acre	Grain Portion	Dry Matter Yield Statewide Average	Blairsville	Calhoun	Griffin	Tifton
				%	---------- tons/acre ----------				
Mid-Season									
AgraTech	1022 HX	3311	55049	43	**12.8**	**13.1**	10.4	10.9	**16.6**
AgraTech	40380	3346	48012	39	.	.	.	.	14.3
AgraTech	84G6 3000GT	**3453**	50503	52	11.5	11.6	10.2	9.4	14.6
AgraTech	873 GT	**3482**	50402	49	.	.	.	.	14.4
AgraTech	999 HXLL	**3465**	54464	45	.	.	.	.	**15.5**
Augusta Seed	A6867GTCBLLC	.	.	38	.	.	9.5	.	.
Croplan Genetics	8221 VT3	3254	46452	48	.	10.7	**12.9**	.	14.3
Croplan Genetics	8621 VT3 Pro	**3445**	52959	54	**12.2**	**12.8**	**11.3**	9.3	**15.4**
DeKalb	DKC66-86(GENVT3P)	3386	45032	54	11.6	11.9	10.7	10.5	13.3
Dyna-Gro	CX12 117	3378	55987	46	**13.0**	**13.8**	**11.0**	10.6	**16.6**
Dyna-Gro	D56VP24	3267	51298	50	.	.	.	.	**15.7**
Dyna-Gro	D57VP51	3173	49337	56	.	.	.	.	**15.5**
Dyna-Gro	D58VP30	3360	47375	51	**12.5**	12.0	**12.8**	**11.2**	14.1
Greenwood	GW 3280 RR	3371	50228	48	12.0	11.5	10.1	**11.4**	**14.9**
Greenwood	GW 3515 RR	**3534**	48590	45	11.5	10.4	**11.5**	10.4	13.7
Masters Choice	MCT-6753	**3506**	**58369**	49	**12.5**	**12.2**	10.0	11.3	**16.7**
Mycogen	TMF2H918RR	3376	44809	45	11.3	12.0	9.7	10.3	13.3
Mycogen	TMF2L844RR	**3567**	**56363**	45	11.9	11.5	10.7	9.8	**15.8**
Pioneer	P2023HR	3412	51774	51	11.8	11.2	10.6	10.0	**15.2**
Pioneer	P2088YHR	3393	54458	53	**12.8**	12.0	**12.5**	10.6	**16.0**
Southern States	SS 824 GENVT3P	3312	51087	53	**13.0**	**12.9**	**11.2**	**12.5**	**15.4**
T. A. Seeds	TA780-13V	**3451**	48662	42	.	.	.	10.2	14.1
T. A. Seeds	TA790-20	3327	45493	50	10.9	8.8	10.4	10.6	13.7
T. A. Seeds	X17868	**3424**	48101	49	.	.	.	.	14.1
T. A. Seeds	X18446	3410	42877	52	.	.	.	.	12.6
T. A. Seeds	X18447	3284	45720	53	.	.	.	.	13.9
T. A. Seeds	X18471	3253	47651	51	.	.	.	.	14.6
T. A. Seeds	X18692	3400	54053	44	.	.	.	.	**15.9**
T. A. Seeds	X18693	3306	48340	55	.	.	.	.	14.6
T. A. Seeds	X18699	**3441**	48520	49	.	.	.	.	14.1
T. A. Seeds	X18700	**3477**	55196	52	.	.	.	.	**15.9**
Average		*3385*	*50239*	*49*	*12.1*	*11.8*	*10.9*	*10.6*	*14.3*
Overall test averages and statistics:									
Average		3395 [3]	49622 [4]	49	11.9 [5]	11.8	10.7	10.3	14.6
LSD at 10% Level		156	2334	4	0.9	1.7	2.1	1.5	1.9
Std. Err. of Entry Mean		66	984	2	0.4	0.7	0.9	1.3	0.8

1. Quality factors taken from the replicated silage trial at Tifton.
2. This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
3. CV = 2.7%, and df for EMS = 41.
4. CV = 2.8%, and df for EMS = 41.
5. CV = 12.7%, and df for EMS = 276.

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

Summary of Quality Factors of Corn Hybrids for Silage
Tifton, Georgia, 2012

Company or Brand Name	Hybrid Name	Quality Factors[1]								Dry Matter Yield	
		Milk Production[2]									
		lbs/ton DM	lbs/acre	Protein	NDF	ADF	TDN	NDF48[3]	Ash	Grain Portion	Tifton
				%	%	%	%	%	%	%	tons/acre
Short-Season											
AgraTech	1777	**3537**	48453	9.3	40.9	20.6	73.3	70.8	3.3	47	13.7
DeKalb	DKC63-87(GENVT3P)	3259	48877	9.3	36.9	18.5	74.7	68.0	3.4	51	15.0
Dyna-Gro	57N73	3374	47235	9.6	36.3	17.6	75.3	71.7	3.0	51	14.0
Masters Choice	MCT-6583	**3418**	47596	9.3	38.4	18.9	74.4	70.4	3.4	50	13.9
Pioneer	P1404HR	**3562**	50428	10.2	40.8	21.2	72.9	70.3	4.0	47	14.2
Pioneer	P1498HR	**3573**	53765	9.2	40.6	22.2	72.3	71.9	4.3	49	15.1
Southern States	SS 67-32 GENVT3P	**3438**	44778	9.2	40.6	21.1	72.9	68.8	3.6	49	13.0
T. A. Seeds	TA720-20	3390	48640	9.2	37.8	19.8	73.8	70.6	3.8	50	14.3
T. A. Seeds	TA765-00	**3488**	50836	9.3	39.7	21.8	72.5	70.6	3.8	46	14.6
T. A. Seeds	X17871	3267	49819	9.7	35.6	17.9	75.0	69.3	3.7	52	15.3
T. A. Seeds	X18496	**3451**	41403	9.8	41.2	21.1	73.0	69.3	3.8	45	12.0
T. A. Seeds	X18691	3264	45129	9.3	35.9	18.5	74.7	69.5	3.6	49	13.8
Average		*3418*	*48080*	*9.4*	*38.7*	*19.9*	*73.7*	*70.1*	*3.6*	*49*	*14.1*

Summary of Quality Factors of Corn Hybrids for Silage
Tifton, Georgia, 2012 (Continued)

Company or Brand Name	Hybrid Name	Quality Factors[1] Milk Production[2] lbs/ton DM	lbs/acre	Protein	NDF	ADF	TDN	NDF48[3]	Ash	Dry Matter Yield Grain Portion	Tifton
				%	%	%	%	%	%	%	tons/acre
Mid-Season											
AgraTech	1022 HX	3311	55049	8.7	47.1	25.7	69.9	66.2	4.0	43	16.6
AgraTech	40380	3346	48012	9.2	40.8	23.2	73.0	71.3	3.6	39	14.3
AgraTech	84G6 3000GT	**3453**	50503	9.8	36.8	18.6	74.6	72.9	3.7	52	14.6
AgraTech	873 GT	**3482**	50402	9.1	41.5	22.7	71.9	69.5	3.9	49	14.4
AgraTech	999 HXLL	**3465**	54464	8.6	42.5	22.9	71.7	69.1	3.6	45	15.5
Croplan Genetics	8221 VT3	3254	46452	9.1	46.6	25.6	69.8	66.7	4.5	48	14.3
Croplan Genetics	8621 VT3 Pro	**3445**	52959	9.0	39.8	21.0	73.0	70.3	3.9	54	15.4
DeKalb	DKC66-86(GENVT3P)	3386	45032	9.7	36.7	18.9	74.4	71.2	3.8	54	13.3
Dyna-Gro	CX12 117	3378	55987	9.5	38.7	20.7	73.2	68.9	4.1	46	16.6
Dyna-Gro	D56VP24	3267	51298	9.2	33.1	18.0	75.0	74.6	3.7	50	15.7
Dyna-Gro	D57VP51	3173	49337	9.0	35.6	19.7	74.6	67.8	3.6	56	15.5
Dyna-Gro	D58VP30	3360	47375	9.1	38.6	20.8	73.1	68.9	3.6	51	14.1
Greenwood	GW 3280 RR	3371	50228	8.7	44.3	24.9	70.5	68.8	3.8	48	14.9
Greenwood	GW 3515 RR	**3534**	48590	9.1	39.8	21.9	72.4	71.8	3.8	45	13.7
Masters Choice	MCT-6753	**3506**	**58369**	9.7	39.9	20.0	73.7	71.3	3.5	49	16.7
Mycogen	TMF2H918RR	3376	44809	9.0	46.8	25.5	70.0	68.6	4.3	45	13.3
Mycogen	TMF2L844RR	**3567**	**56363**	8.5	42.5	23.1	71.6	68.7	3.4	45	15.8
Pioneer	P2023HR	3412	51774	9.2	40.1	22.0	72.4	68.1	3.9	51	15.2
Pioneer	P2088YHR	3393	54458	9.0	37.6	20.2	73.5	71.4	4.1	53	16.0
Southern States	SS 824 GENVT3P	3312	51087	9.3	38.3	22.3	74.1	68.2	3.6	53	15.4
T. A. Seeds	TA780-13V	**3451**	48662	9.2	40.7	22.4	72.1	70.9	4.0	42	14.1
T. A. Seeds	TA790-20	3327	45493	9.4	38.6	22.6	73.7	69.3	3.8	50	13.7
T. A. Seeds	X17868	3424	48101	9.6	38.5	19.1	74.3	69.9	3.3	49	14.1
T. A. Seeds	X18446	3410	42877	9.6	38.1	21.5	72.7	70.0	4.5	52	12.6
T. A. Seeds	X18447	3284	45720	9.4	35.8	18.4	74.7	70.1	3.4	53	13.9
T. A. Seeds	X18471	3253	47651	9.7	36.4	21.1	74.7	67.8	3.5	51	14.6
T. A. Seeds	X18692	3400	54053	9.1	38.7	21.4	72.8	69.8	4.1	44	15.9
T. A. Seeds	X18693	3306	48340	9.2	36.5	21.3	75.0	70.2	3.3	55	14.6
T. A. Seeds	X18699	**3441**	48520	9.6	40.4	21.5	72.7	67.7	3.8	49	14.1
T. A. Seeds	X18700	**3477**	55196	9.0	40.6	22.0	72.3	69.5	4.0	52	15.9
Average		*3385*	*50239*	*9.2*	*39.7*	*21.6*	*72.9*	*69.6*	*3.8*	*49*	*14.8*
Overall test averages and statistics:											
Average		3395 [4]	49622 [5]	9.3	39.4	21.1	73.1	69.8	3.8	49	14.6
LSD at 10% Level		156	2334	0.6	5.0	2.7	2.4	2.6	N.S.[6]	4	1.9
Std. Err. of Entry Mean		66	984	0.2	2.1	1.1	1.0	1.1	0.3	2	0.8

1. Quality factors taken from the replicated silage trial at Tifton.
2. This variable is calculated using University of Wisconsin Corn Silage Evaluation System - Milk 2000 and reported at lbs milk/ton of dry matter (DM) and lbs milk/acre.
3. NDF48: Percent dry matter disappearance/48 hours.
4. CV = 2.7%, and df for EMS = 41.
5. CV = 2.8%, and df for EMS = 41.
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, 2012, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Short-Season							
T. A. Seeds	X17871	**15.3**	30.1	51.1	52	34630	.
Pioneer	P1498HR	**15.1**	28.9	52.3	49	34413	.
DeKalb	DKC63-87(GENVT3P)	**15.0**	29.3	51.3	51	33542	.
T. A. Seeds	TA765-00	14.6	30.9	47.7	46	33542	**13.7**
T. A. Seeds	TA720-20	14.4	28.3	50.5	50	33759	.
Pioneer	P1404HR	14.2	29.5	47.6	47	33759	.
Dyna-Gro	57N73	14.0	29.3	47.9	51	34413	**12.9**
Masters Choice	MCT-6583	13.9	28.8	49.2	50	34195	.
T. A. Seeds	X18691	13.8	28.4	49.0	49	33542	.
AgraTech	1777	13.7	28.5	49.2	47	33977	**12.8**
Southern States	SS 67-32 GENVT3P	13.0	27.1	48.1	49	33759	.
T. A. Seeds	X18496	12.0	23.7	50.5	45	34630	.
Average		*14.1*	*28.6*	*49.5*	*49*	*34013*	*13.1*
Mid-Season							
Masters Choice	MCT-6753	**16.7**	33.7	49.7	49	33324	.
AgraTech	1022 HX	**16.6**	**38.1**	43.6	43	33106	**14.6**
Dyna-Gro	CX12 117	**16.6**	**34.7**	48.3	46	34413	.
Pioneer	P2088YHR	**16.1**	31.8	50.6	53	33759	.
T. A. Seeds	X18692	**15.9**	33.7	47.2	44	33542	.
T. A. Seeds	X18700	**15.9**	31.7	50.1	52	34195	.
Mycogen	TMF2L844RR	**15.8**	**37.6**	42.2	45	33106	.
Dyna-Gro	D56VP24	**15.7**	31.1	50.6	50	34195	**13.2**
AgraTech	999 HXLL	**15.6**	32.4	48.0	45	34848	**13.9**
Dyna-Gro	D57VP51	**15.6**	28.6	54.5	56	33324	.
Southern States	SS 824 GENVT3P	**15.4**	29.3	52.9	53	33759	.
Croplan Genetics	8621 VT3 Pro	**15.4**	29.8	51.6	54	34195	.
Pioneer	P2023HR	**15.2**	33.3	45.6	51	34413	**15.0**
Greenwood	GW 3280 RR	**14.9**	27.6	54.3	48	34848	**13.3**
T. A. Seeds	X18471	14.7	29.6	49.5	51	33542	.
T. A. Seeds	X18693	14.6	28.4	51.5	55	34413	.
AgraTech	84G6 3000GT	14.6	28.7	51.0	52	33324	.
AgraTech	873 GT	14.5	31.8	45.5	49	34630	.
AgraTech	40380	14.4	31.3	46.2	39	33324	.
Croplan Genetics	8221 VT3	14.3	29.3	48.9	48	33977	**13.0**
Dyna-Gro	D58VP30	14.1	27.6	51.0	51	34413	**13.6**
T. A. Seeds	TA780-13V	14.1	29.5	47.8	42	34848	**13.2**
T. A. Seeds	X18699	14.1	26.2	53.7	49	33542	.
T. A. Seeds	X17868	14.1	29.7	47.2	49	34195	.
T. A. Seeds	X18447	13.9	28.4	49.2	53	33324	.
Greenwood	GW 3515 RR	13.8	31.0	44.4	45	33106	**13.0**
T. A. Seeds	TA790-20	13.7	28.6	47.8	50	33106	.
DeKalb	DKC66-86(GENVT3P)	13.3	25.2	52.7	54	33977	.
Mycogen	TMF2H918RR	13.3	30.3	43.9	45	34848	**11.7**
T. A. Seeds	X18446	12.6	25.9	49.1	52	33324	.
Average		*14.8*	*30.5*	*49*	*49*	*33897*	***13.4***
Overall test averages and statistics:							
Average		14.6 [1]	29.9 [2]	49.1	49	33930	13.4
LSD at 10% Level		1.9	3.8	4.1	4	794	N.S.[3]
Std. Err. of Entry Mean		0.8	1.6	1.8	2	339	0.6

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2012, Irrigated
(Continued)

1. CV = 10.9%, and df for EMS = 123.
2. CV = 10.9%, and df for EMS = 123.
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

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

Planted:	March 28, 2012.
Harvested:	July 26, 2012.
Seeding Rate:	35,000 seeds/acre in 30" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = High, K = High, and pH = 6.7.
Fertilization:	64 lb N, 152 lb P_2O_5, and 248 lb K_2O/acre as preplant; 268 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Disked, subsoiled, bedded and rototilled; Razencane, Atrazine 4L, Prowl, and Accent Q used for weed control; Telone II used for nematode control; irrigated 8 inches.

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

Griffin, Georgia:
Evaluation of Corn Hybrids for Silage, 2012, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Short-Season							
Southern States	SS 67-32 GENVT3P	**11.2**	21.2	52.5	54	35332	.
Pioneer	P1404HR	10.3	19.2	53.3	43	33337	.
Masters Choice	MCT-6583	10.2	20.6	49.6	53	34122	.
DeKalb	DKC63-87(GENVT3P)	9.8	18.7	52.6	53	34364	.
T. A. Seeds	TA720-20	9.7	17.8	54.6	53	31944	.
Dyna-Gro	57N73	9.7	19.8	49.3	49	34848	**9.5**
Pioneer	P1498HR	9.3	17.3	53.5	54	34848	.
T. A. Seeds	TA765-00	9.1	18.5	49.5	51	30250	.
AgraTech	1777	8.8	16.9	52.2	49	33396	.
Average		*9.8*	*18.9*	*51.9*	*51*	*33604*	*9.5*
Mid-Season							
Southern States	SS 824 GENVT3P	**12.5**	**25.4**	49.5	48	34122	.
Greenwood	GW 3280 RR	**11.4**	**24.9**	46.2	45	33396	**10.8**
Masters Choice	MCT-6753	**11.4**	22.1	51.7	48	34122	.
Dyna-Gro	D58VP30	**11.3**	**22.9**	49.0	51	32186	**10.6**
AgraTech	1022 HX	10.9	**22.4**	48.7	51	33396	.
Pioneer	P2088YHR	10.6	21.5	49.8	46	32428	.
T. A. Seeds	TA790-20	10.6	20.9	51.0	51	32912	.
Dyna-Gro	CX12 117	10.6	20.9	50.6	47	32428	.
DeKalb	DKC66-86(GENVT3P)	10.5	21.3	49.9	52	30250	.
Greenwood	GW 3515 RR	10.4	19.6	53.1	48	30492	**9.8**
Mycogen	TMF2H918RR	10.3	21.2	48.8	49	33638	**10.1**
T. A. Seeds	TA780-13V	10.2	21.4	47.7	49	34046	.
Pioneer	P2023HR	10.0	21.2	47.3	54	32912	**10.3**
Mycogen	TMF2L844RR	9.8	20.0	49.3	54	33396	.
AgraTech	84G6 3000GT	9.4	17.6	53.4	52	30734	.
Croplan Genetics	8621 VT3 Pro	9.3	18.6	50.4	54	29766	.
Average		*10.6*	*21.4*	*49.8*	*50*	*32514*	*10.3*
Overall test averages and statistics:							
Average		10.3 [1]	20.5 [2]	50.5	50	32907	10.2
LSD at 10% Level		1.5	3.1	4.3	N.S.[3]	2737	N.S.
Std. Err. of Entry Mean		1.3	1.9	1.9	3	1162	0.3

1. CV = 12.2%, and df for EMS = 72.
2. CV = 12.9%, and df for EMS = 72.
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

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

Planted: April 2, 2012.
Harvested: August 17, 2012.
Seeding Rate: 36,000 seeds/acre in 30" rows.
Soil Type: Pacolet coarse sandy loam.
Soil Test: P = High, K = High, and pH = 5.7.
Fertilization: 75 lb N, 150 lb P_2O_5, and 225 lb K_2O/acre as preplant; 225 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked, and rototilled; Lasso, Atrazine, and Option used for weed control; irrigated 12 inches.

Test conducted by J. Gassett and G. Ware.

Calhoun, Georgia:
Evaluation of Corn Hybrids for Silage, 2012, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Short-Season							
DeKalb	DKC63-87(GENVT3P)	**11.9**	**25.3**	47.4	33	29995	.
Pioneer	P1404HR	**10.8**	20.5	53.7	30	28314	.
Dyna-Gro	57N73	**10.8**	**24.6**	44.3	32	26510	**10.2**
Pioneer	P1498HR	10.4	19.8	52.5	33	29621	.
Augusta Seed	A5462GT3000	10.2	22.5	44.9	29	32796	.
Masters Choice	MCT-6583	10.2	**23.5**	44.1	27	31156	.
Southern States	SS 67-32 GENVT3P	10.0	22.8	43.8	34	30004	.
AgraTech	1777	9.6	19.9	47.9	33	28314	.
T. A. Seeds	TA720-20	9.5	20.9	46.2	25	27443	.
T. A. Seeds	TA765-00	9.3	21.9	42.5	31	25918	.
Average		*10.3*	*22.2*	*46.7*	*31*	*29007*	*10.2*
Mid-Season							
Croplan Genetics	8221 VT3	**12.9**	**26.6**	49.4	32	30928	**11.4**
Dyna-Gro	D58VP30	**12.7**	**25.3**	50.6	37	30275	**12.0**
Pioneer	P2088YHR	**12.6**	**23.5**	54.0	33	28750	.
Greenwood	GW 3515 RR	**11.5**	21.4	54.1	39	31799	**9.9**
Croplan Genetics	8621 VT3 Pro	**11.3**	22.1	51.0	41	28252	.
Southern States	SS 824 GENVT3P	**11.2**	21.9	50.9	42	30274	.
Dyna-Gro	CX12 117	**11.0**	**23.4**	47.1	32	28968	.
Mycogen	TMF2L844RR	10.7	**25.8**	41.4	32	26789	.
DeKalb	DKC66-86(GENVT3P)	10.7	21.8	49.2	40	29839	.
Pioneer	P2023HR	10.6	22.5	47.4	41	28532	**10.8**
AgraTech	1022 HX	10.4	21.8	48.3	28	23503	.
T. A. Seeds	TA790-20	10.4	21.0	49.8	35	21282	.
AgraTech	84G6 3000GT	10.2	**24.6**	41.3	38	30473	.
Greenwood	GW 3280 RR	10.1	19.5	51.7	31	28532	**10.0**
Masters Choice	MCT-6753	10.0	20.7	49.3	38	29755	.
Mycogen	TMF2H918RR	9.7	21.0	46.3	31	28967	**9.6**
Augusta Seed	A6867GTCBLLC	9.4	18.4	52.1	38	26789	.
Average		*10.9*	*22.4*	*49*	*35.8*	*28453*	*10.6*
Overall test averages and statistics:							
Average		10.7 [1]	22.3 [2]	48.2	34	28658	10.5
LSD at 10% Level		2.1	3.5	7.1	8	3638	N.S.[3]
Std. Err. of Entry Mean		0.9	1.5	0.1	3	1546	0.6

Calhoun, Georgia:
Evaluation of Corn Hybrids for Silage, 2012, Irrigated
(Continued)

1. CV = 17.0%, and df for EMS = 78.
2. CV = 13.5%, and df for EMS = 78.
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

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

Planted:	April 11, 2012.
Harvested:	August 23, 2012.
Seeding Rate:	33,000 seeds/acre in 30" rows.
Soil Type:	Rome gravelly clay loam.
Soil Test:	P = Very High, K = Very High, and pH = 6.3.
Fertilization:	100 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre as preplant; 200 lb N/acre as sidedress.
Previous Crop:	Soybeans.
Management:	Moldboard plowed, disked and rototilled; Dual, Atrazine, Callisto, and one cultivations used for weed control; irrigated 11 inches.

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

Blairsville, Georgia:
Evaluation of Corn Hybrids for Silage, 2012, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield Dry	Forage Yield Green	Dry Matter	Grain Portion	Plant Population	2-Yr Avg Dry Forage Yield
		tons/acre		%	%	no.	tons/acre
Short-Season							
Masters Choice	MCT-6583	**12.6**	**33.5**	37.7	51	34963	.
Pioneer	P1498HR	**12.6**	28.7	44.0	54	34848	.
Pioneer	P1404HR	**12.3**	31.9	38.4	46	34848	.
Dyna-Gro	57N73	**12.1**	31.0	38.9	52	30734	**11.7**
DeKalb	DKC63-87(GENVT3P)	11.9	31.4	37.9	49	34963	.
T. A. Seeds	TA765-00	11.8	30.8	38.5	48	30734	.
Southern States	SS 67-32 GENVT3P	11.4	29.8	38.5	51	32428	.
AgraTech	1777	11.3	31.9	35.5	48	31460	.
T. A. Seeds	TA720-20	11.1	27.6	40.2	51	34364	.
Average		*11.9*	*30.7*	*38.8*	*50*	*33491*	*11.7*
Mid-Season							
Dyna-Gro	CX12 117	**13.8**	**36.5**	37.7	44	33880	.
AgraTech	1022 HX	**13.1**	**35.8**	36.7	37	29766	.
Southern States	SS 824 GENVT3P	**12.9**	31.5	41.1	52	34848	.
Croplan Genetics	8621 VT3 Pro	**12.8**	**34.3**	37.2	45	33154	.
Masters Choice	MCT-6753	**12.2**	**34.0**	36.2	50	34606	.
Mycogen	TMF2H918RR	12.0	**34.2**	35.2	42	33880	**12.0**
Pioneer	P2088YHR	12.0	31.5	38.0	51	33154	.
Dyna-Gro	D58VP30	12.0	29.1	41.2	51	34488	.
DeKalb	DKC66-86(GENVT3P)	11.9	30.4	39.1	49	33198	.
AgraTech	84G6 3000GT	11.6	31.9	36.4	51	32670	.
Mycogen	TMF2L844RR	11.5	30.5	37.9	42	31218	.
Greenwood	GW 3280 RR	11.5	30.7	37.4	47	34122	**12.2**
Pioneer	P2023HR	11.2	32.6	35.2	45	34122	**12.7**
Croplan Genetics	8221 VT3	10.7	31.7	33.6	47	33154	**10.7**
Greenwood	GW 3515 RR	10.4	26.9	38.4	52	30492	**10.6**
T. A. Seeds	TA790-20	8.8	24.0	36.7	48	21538	.
Average		*11.8*	*31.6*	*37.4*	*47*	*32440*	*11.6*
Overall test averages and statistics:							
Average		11.8 [1]	31.3 [2]	37.9	48	32818	11.6
LSD at 10% Level		1.7	3.7	N.S.[3]	4	2389	N.S.
Std. Err. of Entry Mean		0.7	1.6	1.9	2	1013	0.6

Blairsville, Georgia:
Evaluation of Corn Hybrids for Silage, 2012, Nonirrigated (Continued)

1. CV = 12.3%, and df for EMS = 72.
2. CV = 10.1%, and df for EMS = 72.
3. The F-test indicated no statistical differences at the alpha = 0.10 probability level; therefore an LSD value was not calculated.

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

Planted:	May 1, 2012.
Harvested:	September 7, 2012.
Seeding Rate:	35,000 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, and rototilled; Dual II Magnum, Atrazine, Simazine, Accent Q, Callisto, and two cultivations used for weed control.

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

Insect Screening Results

Multiple Insect Resistance in 79 Commercial Corn Hybrids - 2012

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

Commercial corn hybrids were screened for ear- and kernel-feeding resistance to insect damage in the field at Tifton, GA. Nine of the top performing 23 hybrids (rated as VG in 2012) were developed utilizing YieldGard VecTran Triple technology (abbreviated as VT3 or VT3P). The hybrids with VT3 contain two *Bt* genes, while the hybrids with VT3PRO contain a stack of three *Bt* genes.

Insect damage was moderate in the 2012 trial; the six groups of ear- and/or kernel-feeding insects in the order of infestation severity are: corn earworm, fall armyworm, stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil. Multiple species of sap beetles were recorded in 2012. Corn earworm and fall armyworm feeding penetration in corn ears was between 0 and 2.7 cm, which was higher than in 2011 (0 - 1.7 cm), and lower than in 2010 (0.1 - 3.2 cm). Corn earworm and fall armyworm damage was combined because the damage was difficult to separate. Stink bug damage in 2012 was relatively high, ranging from 0 to 5.4% 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 - 0.3%, and pink scavenger caterpillar damage was 0 - 0.5% of the kernels in 2012. Losses to pink scavenger caterpillar and sap beetles were based on damage by possibly multiple generations of these insects as the crop matured in the field. Maize weevil infestation at harvest with 18% kernel moisture was low at 0 - 3 weevils per ear. The moderate insect damage might be related to relatively normal weather conditions in 2012 in comparison with the previous years.

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 2012. 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 2.9 and 4.2, only medium (M = 2.9 - 3.9), and tight (T > 4) ratings are given in the table. Husk extension was between 0.5 and 5.7 cm. Corn earworm damage was negatively correlated to both husk tightness and husk extension in the 2012 data. The combined insect resistance ratings shown in the following table reflected cob damage by both corn earworm and fall armyworm. 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 2012. The rankings of the 79 hybrids for multiple insect resistance in the table were based on the results of the principal components 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 and are the most economical means, especially in late plantings, for reducing insect related yield loss, as well as quality loss related to aflatoxin contamination. Consult with your county agent and/or Extension entomologists for additional control recommendations for a specific pest in your area.

The trial was planted on the University of Georgia Gibbs Research Farm near Tifton, GA on April 6, 2012, and harvested between August 27 and 30, 2012. Kernel moisture was approximately 18% 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, GA). The data were collected by Penny Tapp, Jonathan Roberts, and Joshua Gamblin (USDA-ARS, Tifton, GA).

Tifton, Georgia:
Ear-Feeding Insect Resistance in 79 Commercial Hybrids, 2012

Company or Brand Name	Hybrid Name	Days to Anthesis[1]	Husk Extension	Husk tightness[2]	Overall Resistance to Insect Damage[3]	
					2012	2 or more years
			cm			
Terral-REV™	28HR20™	60	1	M	VG	VG-
Croplan Genetics	7131 VT3	58	5	M	VG	VG
Southern States	SS 788 GENVT3PRO	56	3	T	VG	VG
Terral-REV™	28R10™	60	1	M	VG	VG-
Dyna-Gro	D55Q80	58	2	T	VG	VG-
Syngenta NK	N77P 3111	59	4	M	VG	VG
Croplan Genetics	8410 VT3 PRO	57	2	M	VG	VG
T. A. Seeds	TA717-20	57	3	M	VG	VG
T. A. Seeds	TA780-13V	58	3	M	VG	VG
Terral-REV™	22BHR43™	57	5	M	VG	
T. A. Seeds	X18692	57	2	M	VG	.
Augusta Seed	A6867GTCBLLC	58	1	M	VG	.
T. A. Seeds	X18471	58	6	T	VG	.
T. A. Seeds	X18496	57	1	T	VG	.
T. A. Seeds	X18696	56	2	T	VG	.
T. A. Seeds	X18698	57	3	M	VG	.
Dyna-Gro	D55VP77	56	2	M	VG	.
AgraTech	654 VT3P	57	2	M	VG	.
AgraTech	843 VT3P	59	2	M	VG	.
AgraTech	925 VT3P	57	3	T	VG	.
Croplan Genetics	8621 VT3 Pro	57	1	M	VG	.
Croplan Genetics	6640 VT3 Pro	56	1	T	VG	.
Southern States	SS 67-32 GENVT3P	58	6	M	VG	.
Syngenta NK	N82V3000GT	57	1	M	G	G
Terral-REV™	26HR50™	59	1	M	G	F
Dyna-Gro	57N73	60	3	M	G	G
Pioneer	P2023HR	60	2	M	G	G+
Pioneer	P1456HR	58	2	M	G	G
Terral-REV™	28HR29™	60	1	M	G	G
Croplan Genetics	8505 VT3 PRO	58	7	M	G	G
Dyna-Gro	D56VP69	57	1	M	G	VG-
Dyna-Gro	D58VP30	58	4	M	G	VG-
Pioneer	P2088YHR	59	2	M	G	G+
Syngenta NK	N78S 3111	58	2	M	G	VG-
T. A. Seeds	TA765-00	59	2	M	G	G

Tifton, Georgia:
Ear-Feeding Insect Resistance in 79 Commercial Hybrids, 2012 (Continued)

Company or Brand Name	Hybrid Name	Days to Anthesis[1]	Husk Extension	Husk tightness[2]	Overall Resistance to Insect Damage[3]	
					2012	2 or more years
			cm			
Pioneer	P1303HR	59	1	M	G	.
Pioneer	P1498HR	57	3	M	G	.
Pioneer	P1636YHR	58	2	M	G	.
Pioneer	P1690HR	58	0	M	G	.
Terral-REV™	21HR33™	59	2	M	G	.
Terral-REV™	25BHR63™	58	1	M	G	.
Terral-REV™	26HR23™	61	3	M	G	.
Terral-REV™	27HR83™	59	1	M	G	.
Terral-REV™	24BHR93™	59	1	M	G	.
DeKalb	DKC66-86(GENVT3P)	58	1	M	G	.
DeKalb	DKC62-09(GENVT3P)	55	1	M	G	.
T. A. Seeds	TA790-20	59	2	M	G	.
T. A. Seeds	TA720-20	56	2	M	G	.
T. A. Seeds	TA780-00	59	2	M	G	.
T. A. Seeds	X17871	57	2	M	G	.
T. A. Seeds	X18691	56	1	M	G	.
T. A. Seeds	X18693	58	1	T	G	.
T. A. Seeds	X18443	57	2	T	G	.
T. A. Seeds	X18447	57	1	M	G	.
T. A. Seeds	X18694	57	1	M	G	.
T. A. Seeds	X18695	58	2	M	G	.
Syngenta NK	N82V-3111	58	0	M	G	.
Dyna-Gro	D57VP51	56	0	M	G	.
Dyna-Gro	CX12 117	57	1	M	G	.
Dyna-Gro	D54VP81	56	0	M	G	.
AgraTech	777 GT	59	2	M	G	.
AgraTech	808 GTCBLL	62	3	M	G	.
AgraTech	828 BL	57	1	M	G	.
AgraTech	X726 VT3P	56	1	M	G	.
Croplan Genetics	6926 VT3 Pro	56	1	T	G	.
Augusta Seed	A0720GTCBLLC	56	1	M	G	.
Augusta Seed	A0606GTCBLLC	59	4	M	G	.
Syngenta NK	N78N-3111	57	1	M	G	.
Terral-REV™	27HR52™	59	0	M	F	G
Terral-REV™	29HR13™	61	1	M	F	.

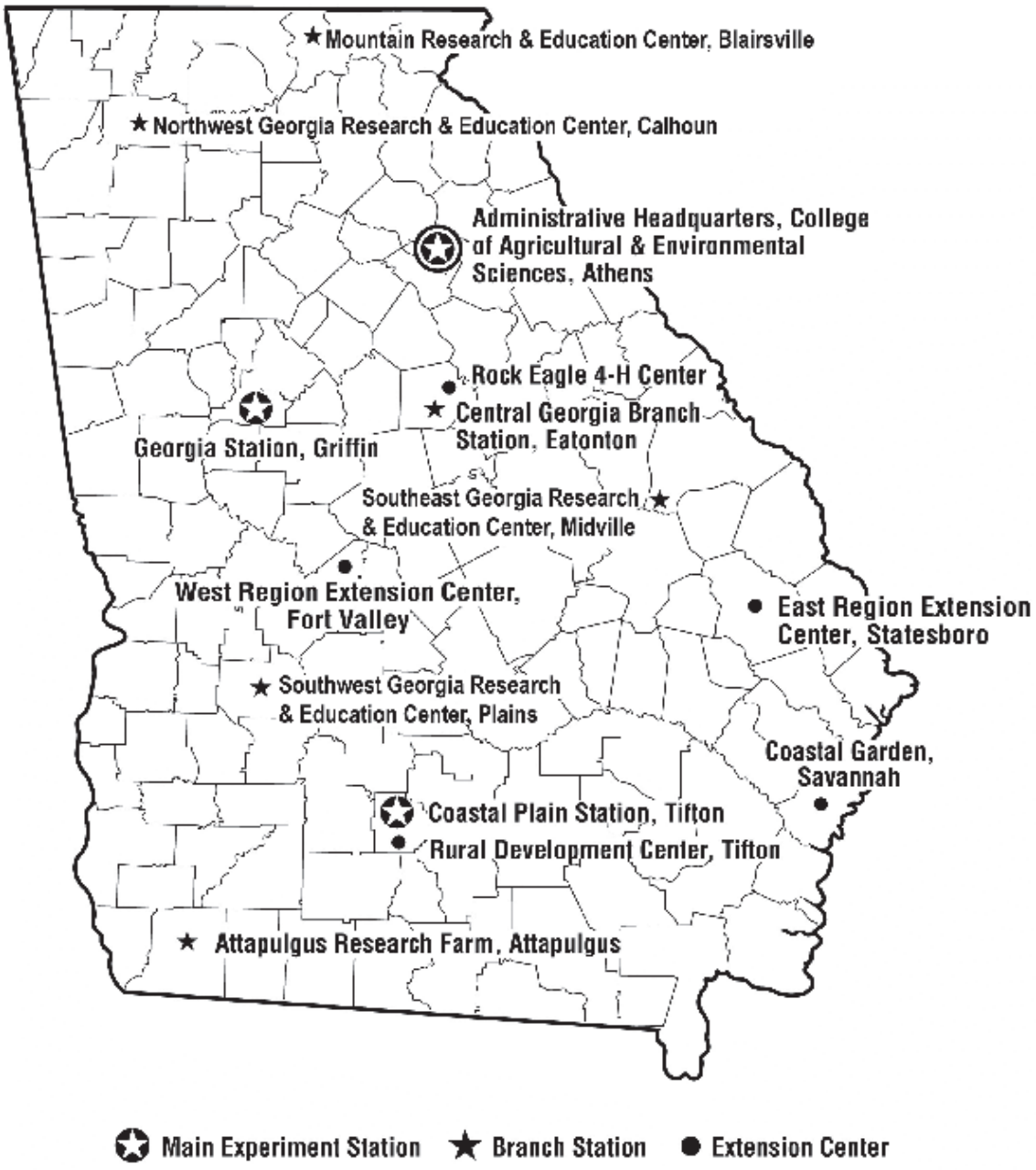
Tifton, Georgia:
Ear-Feeding Insect Resistance in 79 Commercial Hybrids, 2012 (Continued)

Company or Brand Name	Hybrid Name	Days to Anthesis[1]	Husk Extension	Husk tightness[2]	Overall Resistance to Insect Damage[3] 2012	Overall Resistance to Insect Damage[3] 2 or more years
			cm			
T. A. Seeds	TA790-00	58	1	M	F	.
T. A. Seeds	X17868	59	3	M	F	.
T. A. Seeds	X18697	59	0	M	F	.
AgraTech	817 VT3P	57	1	M	F	.
Southern States	SS 63-32 GENVT3P	56	1	M	F	.
Dyna-Gro	D56VP24	59	1	M	P	F-
Terral-REV™	23RE73™	59	0	M	P	.
Syngenta NK	N68B-3111	58	1	M	P	.
Greenwood	GW 3500 RR	60	0	M	P	.

1. Days to anthesis is the number of days to flowering at Tifton, GA in 2012 after the hybrids were planted on April 6, 2012.
2. L = loose husk, M = medium-tight husk, T = tight husk.
3. 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 scavenger caterpillar, and the maize weevil) was based on principal components 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 four years (2009-2012).

Sources of Seed for the 2012 Corn Hybrid Tests

Company or Brand Name	Seed Source
AgraTech	Grabow Seed Services, Inc., 6830 Lisa Lane, Dunwoody, GA 30338
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
Masters Choice	Masters Choice, 3010 State Route 146 E., Anna, IL 62906
Mycogen	Mycogen Seed, P.O. Box 327, Sharptown, MD 21861
Pioneer	Pioneer Hi-Bred International, Inc., 700 Boulevard South, Suite 302, Huntsville, AL 35802
Southern States	Southern States Cooperative, Inc., 6606 West Broad Street, Richmond, VA 23230
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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Northwest Georgia Research & Education Center, Calhoun
Administrative Headquarters, College of Agricultural & Environmental Sciences, Athens
Rock Eagle 4-H Center
Central Georgia Branch Station, Eatonton
Georgia Station, Griffin
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West Region Extension Center, Fort Valley
East Region Extension Center, Statesboro
Southwest Georgia Research & Education Center, Plains
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