

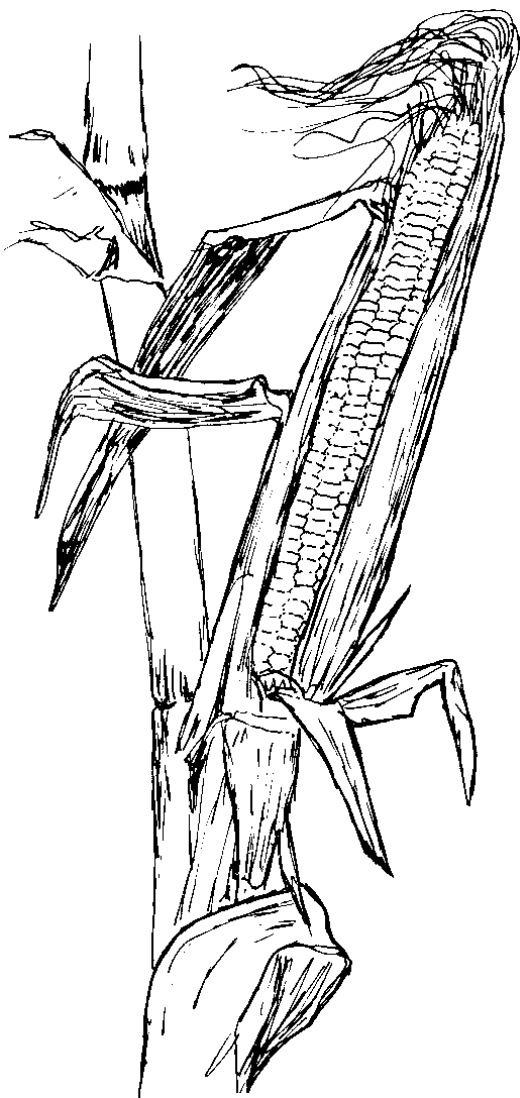


The Georgia Agricultural Experiment Stations
College of Agricultural and Environmental Sciences
The University of Georgia

Annual Publication 101-2
Reviewed October 2013

G e o r g i a

2010 Corn Performance Tests



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

Department of Crop and Soil Sciences
Griffin Campus

Conversion Table

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



J. Scott Angle
Dean and Director

Gerald F. Arkin
*Assistant Dean
Northern Region*

Robert N. Shulstad
*Associate Dean and
Senior Associate Director*

PREFACE

In this research report, the results of the 2010 corn performance trials are presented. Corn performance trials were conducted at six locations throughout Georgia (see map inside back cover) in 2010. 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. Preliminary experimental hybrids were tested at Tifton only.

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: 2009-2010 Small Grains Performance Tests (Annual Publication #100-2), the 2009 Soybean, Sorghum Grain and Silage, Summer Annual Forages and Sunflower Performance Tests (Annual Publication #103), and the 2009 Peanut, Cotton and Tobacco Performance Tests (Annual Publication #104).

This report, along with performance test information on other crops, is also available at our web site, 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

Dr. D. Buntin, Entomology Department, Georgia Station, Griffin, Georgia.
Dr. Kedong Da, USDA-ARS, Coastal Plain Station, Tifton, Georgia.
Mr. H. D. Garrett, Mountain Research & Education Center, Blairsville, Georgia.
Mr. J. Garner, Mountain Research & Education Center, Blairsville, Georgia.
Dr. B. Z. Guo, USDA-ARS, Coastal Plain Station, Tifton, Georgia.
Dr. G. Hoogenboom, Biological and Agricultural Engineering Department,
Georgia Station, Griffin, Georgia.
Mr. S. R. Jones, Southwest Research & Education Center, Plains, Georgia.
Dr. X. Ni, USDA-ARS Crop Genetics & Breeding Research Unit,
Coastal Plain Station, Tifton, Georgia.
Mr. R. R. Pines, Southwest Research & Education Center, Plains, Georgia.
Mr. E. T. Ross, Coastal Plain Station, Tifton, Georgia.
Mr. J. Stubbs, Northwest Research & Education Center, Calhoun, Georgia.
Mr. P. C. Worley, Northwest Research & Education Center, Calhoun, Georgia.
Dr. J. P. Wilson, USDA-ARS Crop Genetics & Breeding Research Unit,
Coastal Plain Station, Tifton, Georgia.

Contributors

The following individuals contributed to the gathering of data and preparation of this report: L. Adcock, B. Arrington, R. Beasley, R. Brooke, J. Chavers, J. Cook, B. Coursey, J. Cox, A. Dale, D. Dunn, B. Endore, M. Flynn, R. Giddens, M. Gilmer, K. Goodman, D. Gordan, N. Hill, C. Pearl, J. Penn, W. Pope, H. Roberts, J. Roberts, J. Skinner, D. Stephens, P. Tapp, G. Ware, and K. Wright.

CONTENTS

The Season	1
Growing Season Rainfall, 2010.....	1

Grain Tests Results

Corn Hybrid Performance in the Coastal Plain

Coastal Plain Region, Georgia: Summary of Corn Hybrid Performance, 2010.....	2
Tifton, Georgia: Short-Season Corn Hybrid Performance, 2010, Nonirrigated.....	4
Tifton, Georgia: Mid-Season Corn Hybrid Performance, 2010, Nonirrigated.....	5
Tifton, Georgia: Short-Season Corn Hybrid Performance, 2010, Irrigated.....	7
Tifton, Georgia: Mid-Season Corn Hybrid Performance, 2010, Irrigated.....	8
Tifton, Georgia: Preliminary Corn Hybrid Performance, 2010, Irrigated.....	9
Plains, Georgia: Short-Season Corn Hybrid Performance, 2010, Irrigated.....	10
Plains, Georgia: Mid-Season Corn Hybrid Performance, 2010, Irrigated.....	11
Midville, Georgia: Short-Season Corn Hybrid Performance, 2010, Irrigated.....	13
Midville, Georgia: Mid-Season Corn Hybrid Performance, 2010, Irrigated.....	14

Corn Hybrid Performance in the Piedmont Region

Griffin, Georgia: Short-Season Corn Hybrid Performance, 2010, Irrigated.....	16
Griffin, Georgia: Mid-Season Corn Hybrid Performance, 2010, Irrigated.....	17

Corn Hybrid Performance in North Georgia

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2010, Nonirrigated.....	18
Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2010, Nonirrigated.....	19
Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2010, Irrigated.....	20
Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2010, Irrigated.....	21
Blairsville, Georgia: Short-Season Corn Hybrid Performance, 2010, Nonirrigated.....	22
Blairsville, Georgia: Mid-Season Corn Hybrid Performance, 2010, Nonirrigated.....	23

Silage Tests Results

Corn Hybrid Performance for Use as Silage

Summary of Evaluations of Corn Hybrids for Silage: Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2010.....	24
Summary of Quality Factors of Corn Hybrids for Silage, Tifton, Georgia, 2010.....	25
Tifton, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Irrigated.....	26
Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Irrigated.....	28
Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2010 Irrigated.....	29
Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Nonirrigated.....	30

Insect Screening Results

Resistance to Multiple Ear-Feeding Insects in 59 Commercial Corn Hybrids, 2010	31
Tifton, Georgia: Evaluation of Ear-Feeding Insect Resistance in 59 Commercial Corn Hybrids, 2010.....	33
Sources of Seed for the 2010 Corn Hybrid Tests	35

2010 Corn Performance Tests

Edited by

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

The Season

Corn planting got off to a slower than average start due to wet fields in mid- and late March but quickly caught up with sunny and warm weather in early April. Late April rains and early May cooler temperatures were beneficial. Corn silked ahead of average and a rainy period in early June helped. Strong winds caused some hybrids to root lodge. Hot and dry summer conditions, except for July 4th week, resulted in one of the hottest summers on record, severely damaging non-irrigated corn and increasing water usage for the irrigated crop. High temperatures and humidity in irrigated corn fields allowed southern rust and southern corn leaf blight to hurt yields in some areas. Northern corn leaf blight symptoms and sun scald were noted on some hybrids. Stink bugs were again a problem in some areas. Good harvest conditions brought the crop out slightly ahead of long-term averages. Grain quality was generally very good.

Seasonal rainfall totals, as shown in the table below, were below normal at all statewide variety testing program locations. Growing conditions this corn season in counties near Plains were extremely dry. The average corn season rainfall deficit of 25% in the area around Plains was the largest in the state, while the other areas of Georgia received about 87% of normal.

Growing Season Rainfall¹, 2010

Month	Blairsville	Calhoun ²	Griffin	Midville	Plains	Tifton
----- inches -----						
February	3.98	4.06	4.12	2.82	3.36	3.36
March	3.49	4.50	5.67	2.71	3.61	2.82
April	2.82	4.73	2.33	1.82	1.95	4.36
May	3.76	4.39	4.99	3.21	5.99	5.96
June	3.24	2.07	1.52	4.83	4.72	5.09
July	1.91	4.82	4.25	4.58	1.33	1.53
August	9.28	4.80	7.45	3.87	2.91	3.32
September	7.60	1.76	3.04	2.89	1.85	2.44
<i>Total (8 mo)</i>	36.08	31.13	33.37	26.73	25.72	28.88
<i>Normal (8 mo)*</i>	38.62	38.47	34.43	30.74	33.77	32.24

1. Data submitted by Dr. G. Hoogenboom, Georgia Station, Griffin, GA.

2. Floyd County location.

* Based on average February to September (8 mo), 1971 to 2000.

Georgia corn producers planted 350,000 acres this season, 17% less than last year. Corn harvested for grain was 14% less than during 2009 and produced only 35 million bushels, 68% as much as the previous year.

Grain Tests Results

Coastal Plain Region

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2010

Company or Brand Name	Variety	Yield					
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	Irrigated Average
-----bu/acre-----							
<u>Short-Season</u>							
Pioneer	P1456HR	233.9	131.3	285.6	285.1	233.8	268.1
Terral-REV™	25HR39™	228.0	149.8	270.8	270.4	220.9	254.0
Dyna-Gro	57N73	227.7	142.4	270.0	268.5	230.1	256.2
Terral-REV™	25R19™	225.3	123.4	264.7	277.5	235.4	259.2
DeKalb	DKC64-69(GENVT3P)	222.1	153.3	260.8	245.8	228.6	245.1
DeKalb	DKC63-84(VT3)	214.7	137.2	262.3	244.2	215.4	240.6
Croplan Genetics	7131 VT3	209.9	136.2	258.4	226.3	218.6	234.4
Dyna-Gro	D55Q80	209.6	124.8	240.5	243.0	230.0	237.8
DeKalb	DKC62-97(GENVT3P)	209.0	134.6	255.3	222.9	223.3	233.8
AgraTech	1777	207.8	115.3	246.5	250.5	219.0	238.7
Dyna-Gro	58K02	205.0	143.1	238.3	218.4	220.1	225.6
Dyna-Gro	57V59	204.4	155.8	251.4	218.8	191.9	220.7
NK	N78N3000GT	202.6	115.9	248.0	233.5	213.1	231.5
NK	N77P3000GT	200.9	125.5	252.4	222.0	203.7	226.0
DeKalb	DKC62-54(VT3)	199.9	129.3	250.6	225.7	194.1	223.5
Croplan Genetics	6725 VT3 PRO	197.9	138.8	246.4	235.8	170.7	217.6
Dyna-Gro	V5373VT3	197.9	116.5	243.1	231.9	199.9	225.0
NK	N78B GT	195.9	118.1	235.9	223.6	205.9	221.8
<i>Average</i>		210.7 ¹	132.8	254.5	241.3	214.1	236.6 ²
<i>LSD at 10% Level</i>		30.5	23.7	13.7	18.1	19.2	9.8
<i>Std. Err. of Entry Mean</i>		13.0	10.0	5.8	7.6	8.2	4.2

Coastal Plain Region of Georgia: Summary of Corn Hybrid Performance, 2010 (Continued)

Company or Brand Name	Variety	Yield					Irrigated Average
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	
----- bu/acre -----							
Mid and Full-Season							
Terral-REV™	28R10™	227.3	171.0	254.7	253.4	230.0	246.0
Pioneer	P2023HR	224.7	151.2	244.6	267.8	235.4	249.3
Terral-REV™	28HR20™	218.5	136.8	254.0	252.7	230.7	245.8
Terral-REV™	26HR50™	216.4	162.1	241.1	246.2	216.3	234.5
NK	N82V3000GT	214.7	156.1	237.8	247.4	217.6	234.3
Pioneer	31D58	214.3	148.8	241.5	250.8	216.1	236.1
MC	MC-630	211.1	139.2	234.3	254.7	216.2	235.0
Terral-REV™	28R30™	209.1	149.9	206.8	256.1	223.7	228.9
Pioneer	P1615HR	208.0	123.9	248.7	251.4	207.9	236.0
DeKalb	DKC67-21(GENVT3P)	204.1	137.4	221.8	247.8	209.3	226.3
Croplan Genetics	8505 VT3 PRO	204.1	147.3	211.9	245.0	212.1	223.0
NK	N78S CB/LL	203.2	147.7	225.4	227.9	211.7	221.6
Terral-REV™	28HR30™	202.2	123.7	232.7	254.0	198.4	228.4
Pioneer	31P42(HX1,LL,RR2)	199.8	139.2	227.0	222.6	210.3	220.0
Dyna-Gro	D56VP24	198.0	145.5	222.3	239.4	184.8	215.5
DeKalb	DKC68-05(GENVT3P)	196.8	146.1	217.9	224.4	198.8	213.7
DeKalb	DKC66-96(GENVT3P)	195.1	130.7	230.5	221.6	197.9	216.6
Golden Acres	27V01	194.5	147.3	209.9	230.9	190.0	210.2
Golden Acres	28V81	194.2	149.9	213.8	229.7	183.4	209.0
Croplan Genetics	851 VT3 PRO	194.0	148.0	225.1	234.9	168.0	209.3
Dyna-Gro	57GT60	193.6	115.8	221.6	235.0	202.1	219.6
AgraTech	825RR	193.4	151.9	218.3	216.3	187.3	207.3
DeKalb	DKC69-71(RR2/YGCB)	190.6	156.2	207.2	214.4	184.7	202.1
Croplan Genetics	8756 VT3	190.6	136.3	218.6	231.1	176.5	208.7
Dyna-Gro	V5683VT3	184.9	133.5	209.7	218.3	178.3	202.1
AgraTech	815CBLL	183.0	125.6	200.7	222.7	183.0	202.1
Dyna-Gro	58VP99	181.2	153.4	190.1	201.7	179.5	190.4
Dyna-Gro	58V69	178.9	121.1	184.1	207.3	202.9	198.1
MC	MC-590	177.9	127.2	228.0	212.1	144.5	194.9
Croplan Genetics	9009 RH	163.9	123.3	198.3	172.4	161.7	177.5
Dyna-Gro	58K02	.	132.3	.	229.7	205.9	.
Average		198.9 ³	141.2	222.6	232.9	198.9	218.1 ⁴
<i>LSD at 10% Level</i>		22.0	24.6	17.8	14.0	18.9	9.8
<i>Std. Err. of Entry Mean</i>		9.4	10.4	7.6	6.0	8.0	4.2

1. CV = 24.8%, and df for EMS = 225.
2. CV = 6.1%, and df for EMS = 153.
3. CV = 18.8%, and df for EMS = 390.
4. CV = 6.6%, and df for EMS = 267.

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, 2010, 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 %
		2010	2-Yr Avg bu/acre	3-Yr Avg						
Dyna-Gro	57V59	155.8	.	.	.	.	15.2	.	55
DeKalb	DKC64-69(GENV3P)	153.3	.	.	.	.	15.7	.	49
Terral-REV™	25HR39™	149.8	178.5	.	.	.	15.4	.	50	
Dyna-Gro	58K02	143.1	.	.	.	.	16.5	.	51
Dyna-Gro	57N73	142.4	164.1	.	.	.	15.8	.	60	
Croplan Genetics	6725 VT3 PRO	138.8	.	.	.	.	15.8	.	68
DeKalb	DKC63-84(VT3)	137.2	155.6	.	.	.	15.3	.	34	
Croplan Genetics	7131 VT3	136.2	152.1	.	.	.	15.2	.	25	
DeKalb	DKC62-97(GENV3P)	134.6	.	.	.	.	15.1	.	85
Pioneer	P1456HR	131.3	.	.	.	.	15.8	.	38
DeKalb	DKC62-54(VT3)	129.3	127.2	.	.	.	14.2	.	23	
NK	N77P3000GT	125.5	141.2	.	.	.	15.6	.	23	
Dyna-Gro	D55Q80	124.8	.	.	.	.	16.6	.	37
Terral-REV™	25R19™	123.4	.	.	.	.	15.8	.	81
NK	N78B GT	118.1	.	.	.	.	16.0	.	73
Dyna-Gro	V5373VT3	116.5	148.3	129.3	.	.	16.0	.	11	
NK	N78N3000GT	115.9	129.5	.	.	.	17.4	.	48	
AgraTech	1777	115.3	130.2	.	.	.	15.9	.	53	
<i>Average</i>		132.8 ⁴	147.4	129.3	.	.	15.7	.	48	
<i>LSD at 10% Level</i>		23.7	28.5	-			1.1		33	
<i>Std. Err. of Entry Mean</i>		10.0	12.0	-			0.4		14	

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 15.1%, and df for EMS = 51.

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

Planted: March 30, 2010.
Harvested: August 12, 2010.
Seeding Rate: 28,500 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Medium, K = Medium, and pH = 6.3.
Fertilization: 48 lb N, 65 lb P₂O₅, and 98 lb K₂O/acre as preplant; 143 lb N/acre as sidedress.
Previous Crop: Peanuts
Management: Subsoiled, bedded and rototilled; Atrazine, Prowl, Accent and Basagran used for weed control; Telone II used for nematode control; Lorsban used for insect control.

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

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg bu/acre	3-Yr Avg						
Terral-REV™	28R10™	171.0	.	.	.	.	16.9	.	58
Terral-REV™	26HR50™	162.1	151.6	.	.	.	16.3	.	40	
DeKalb	DKC69-71(RR2/YGCB)	156.2	150.1	135.5	.	.	16.1	.	26	
NK	N82V3000GT	156.1	164.8	.	.	.	15.4	.	26	
Dyna-Gro	58VP99	153.4	.	.	.	.	14.5	.	72
AgraTech	825RR	151.9	151.0	.	.	.	15.2	.	45	
Pioneer	P2023HR	151.2	.	.	.	.	15.2	.	60
Golden Acres	28V81	149.9	.	.	.	.	15.7	.	70
Terral-REV™	28R30™	149.9	134.4	.	.	.	17.3	.	48	
Pioneer	31D58	148.8	146.9	133.4	.	.	16.0	.	65	
Croplan Genetics	851 VT3 PRO	148.0	134.5	127.2	.	.	15.1	.	0	
NK	N78S CB/LL	147.7	.	.	.	.	14.9	.	20
Golden Acres	27V01	147.3	.	.	.	.	15.4	.	13
Croplan Genetics	8505 VT3 PRO	147.3	.	.	.	.	14.9	.	46
DeKalb	DKC68-05(GENVT3P)	146.1	.	.	.	.	15.4	.	41
Dyna-Gro	D56VP24	145.5	.	.	.	.	15.6	.	8
MC	MC-630	139.2	.	.	.	.	15.1	.	39
Pioneer	31P42 (HX1,LL,RR2)	139.2	.	.	.	.	15.7	.	58
DeKalb	DKC67-21(GENVT3P)	137.4	.	.	.	.	16.4	.	26
Terral-REV™	28HR20™	136.8	152.6	.	.	.	16.1	.	55	
Croplan Genetics	8756 VT3	136.3	142.6	127.0	.	.	16.1	.	26	
Dyna-Gro	V5683VT3	133.5	.	.	.	.	14.6	.	36
Dyna-Gro	58K02	132.3	146.0	.	.	.	15.8	.	34	
DeKalb	DKC66-96(GENVT3P)	130.7	.	.	.	.	14.3	.	52
MC	MC-590	127.2	129.9	.	.	.	16.2	.	11	
AgraTech	815CBLL	125.6	.	.	.	.	14.3	.	8
Pioneer	P1615HR	123.9	.	.	.	.	16.8	.	38
Terral-REV™	28HR30™	123.7	.	.	.	.	17.7	.	28
Croplan Genetics	9009 RH	123.3	.	.	.	.	19.6	.	23
Dyna-Gro	58V69	121.1	130.4	.	.	.	16.5	.	57	
Dyna-Gro	57GT60	115.8	.	.	.	.	14.3	.	23
<i>Average</i>		141.2 ⁴	144.6	130.8	.	.	15.8	.	37	
<i>LSD at 10% Level</i>		24.6	N.S. ⁵	N.S.			0.8		22	
<i>Std. Err. of Entry Mean</i>		10.4	11.5	9.9			0.6		9	

Tifton, Georgia:
Mid-Season Corn Hybrid Performance, 2010, 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 = 14.8%, and df for EMS = 90.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a LSD value was not calculated.

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

Planted: March 30, 2010.

Harvested: August 12, 2010.

Seeding Rate: 26,500 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: 48 lb N, 65 lb P₂O₅, and 98 lb K₂O/acre as preplant; 143 lb N/acre as sidedress.

Previous Crop: Peanuts

Management: Subsoiled, bedded and rototilled; Atrazine, Prowl, Accent and Basagran used for weed control; Telone II used for nematode control; Lorsban used for insect control.

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

Tifton, Georgia: Short-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg bu/acre	3-Yr Avg						
Pioneer	P1456HR	285.6	.	.	100	0.51	1.0	19.2	32779	99
Terral-REV™	25HR39™	270.8	259.6	.	99	0.52	1.0	18.4	30383	98
Dyna-Gro	57N73	270.0	263.0	.	100	0.51	1.0	19.0	31254	93
Terral-REV™	25R19™	264.7	.	.	99	0.52	1.0	18.3	30150	100
DeKalb	DKC63-84(VT3)	262.3	247.5	.	100	0.47	2.0	17.3	32126	99
DeKalb	DKC64-69(GENVT3P)	260.8	.	.	96	0.52	1.0	18.6	30165	99
Croplan Genetics	7131 VT3	258.4	247.6	.	100	0.50	1.0	19.1	30385	100
DeKalb	DKC62-97(GENVT3P)	255.3	.	.	100	0.46	1.0	17.4	31581	100
NK	N77P3000GT	252.4	241.8	.	100	0.48	1.0	19.3	30710	99
Dyna-Gro	57V59	251.4	.	.	99	0.48	1.0	17.0	30275	99
DeKalb	DKC62-54(VT3)	250.6	236.5	.	101	0.46	1.0	17.1	30492	100
NK	N78N3000GT	248.0	231.6	.	100	0.53	1.0	20.2	27987	98
AgraTech	1777	246.5	249.1	.	100	0.51	1.0	18.3	28314	98
Croplan Genetics	6725 VT3 PRO	246.4	.	.	102	0.46	1.0	17.9	30165	99
Dyna-Gro	V5373VT3	243.1	233.2	232.9	100	0.47	2.0	19.9	30274	98
Dyna-Gro	D55Q80	240.5	.	.	100	0.48	1.0	21.5	30492	100
Dyna-Gro	58K02	238.3	.	.	99	0.52	1.0	21.2	27987	100
NK	N78B GT	235.9	.	.	100	0.44	1.0	19.2	31690	100
<i>Average</i>		254.5 ⁴	245.5	232.9	100	0.49	1.1	18.8	30401	99
<i>LSD at 10% Level</i>		13.7	9.4	-	2	0.02	-	5.0	1340	N.S. ⁵
<i>Std. Err. of Entry Mean</i>		5.8	4.0	-	1	0.01	-	0.2	565	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 4.5%, and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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, 2010.
Harvested: August 6, 2010.
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: 87 lb N, 126 lb P₂O₅, and 213 lb K₂O/acre as preplant; 274 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Subsoiled, bedded and rototilled; Atrazine, Prowl, Accent, and Basagran used for weed control; Telone li used for nematode control; irrigated 7.0 inches.

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

Tifton, Georgia: Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----								
Terral-REV™	28R10™	254.7	.	.	102	0.53	2.0	19.7	27661	100
Terral-REV™	28HR20™	254.0	259.1	.	103	0.55	1.0	19.9	26572	100
Pioneer	P1615HR	248.7	.	.	100	0.52	1.0	19.2	28205	100
Pioneer	P2023HR	244.6	.	.	99	0.54	1.0	19.4	26681	100
Pioneer	31D58	241.5	248.8	251.4	104	0.51	1.0	19.3	26899	100
Terral-REV™	26HR50™	241.1	236.8	.	97	0.57	1.0	19.4	25592	99
NK	N82V3000GT	237.8	248.7	.	98	0.54	2.0	18.6	25918	100
MC	MC-630	234.3	.	.	101	0.50	1.0	18.9	26790	97
Terral-REV™	28HR30™	232.7	.	.	101	0.51	1.0	22.4	27334	100
DeKalb	DKC66-96(GENV3P)	230.5	.	.	98	0.48	2.0	18.2	28641	100
MC	MC-590	228.0	217.3	.	95	0.54	1.0	19.6	26471	95
Pioneer	31P42 (HX1,LL,RR2)	227.0	.	.	100	0.52	2.0	18.9	25592	100
NK	N78S CB/LL	225.4	.	.	101	0.50	2.0	19.4	26245	100
Croplan Genetics	851 VT3 PRO	225.1	232.0	236.3	96	0.53	1.0	19.0	25918	100
Dyna-Gro	D56VP24	222.3	.	.	97	0.53	1.0	18.6	25156	97
DeKalb	DKC67-21(GENV3P)	221.8	.	.	98	0.48	1.0	20.1	27878	100
Dyna-Gro	57GT60	221.6	.	.	98	0.50	1.0	18.6	26354	100
Croplan Genetics	8756 VT3	218.6	225.7	231.8	97	0.48	2.0	20.7	28314	98
AgraTech	825RR	218.3	220.5	.	101	0.47	1.0	18.8	26898	100
DeKalb	DKC68-05(GENV3P)	217.9	.	.	103	0.48	1.0	19.5	25701	100
Golden Acres	28V81	213.8	.	.	102	0.48	2.0	18.7	25374	100
Croplan Genetics	8505 VT3 PRO	211.9	.	.	103	0.44	1.0	19.4	27443	99
Golden Acres	27V01	209.9	.	.	96	0.52	2.3	19.1	24612	98
Dyna-Gro	V5683VT3	209.7	.	.	96	0.48	1.0	17.6	26245	98
DeKalb	DKC69-71(RR2/YGCB)	207.2	215.7	227.2	101	0.45	1.0	21.0	27007	100
Terral-REV™	28R30™	206.8	230.4	.	100	0.48	1.0	21.4	26027	98
AgraTech	815CBLL	200.7	.	.	98	0.46	1.0	18.7	25701	98
Croplan Genetics	9009 RH	198.3	.	.	99	0.47	1.0	23.0	26187	99
Dyna-Gro	58VP99	190.1	.	.	99	0.46	1.0	18.7	24612	100
Dyna-Gro	58V69	184.1	203.4	.	96	0.43	1.0	20.3	26898	97
<i>Average</i>		222.6 ⁴	230.8	236.7	99	0.50	1.3	19.5	26497	99
<i>LSD at 10% Level</i>		17.8	13.2	14.1	4	0.04	-	0.6	1532	2
<i>Std. Err. of Entry Mean</i>		7.6	5.6	5.9	2	0.02	-	0.3	652	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 6.8%, and df for EMS = 87.

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

Planted: March 29, 2010.

Harvested: August 6, 2010.

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

Soil Type: Tifton loamy sand.

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

Fertilization: 87 lb N, 126 lb P₂O₅, and 213 lb K₂O/acre as preplant; 274 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, bedded and rototilled; Atrazine, Prowl, Accent, and Basagran used for weed control; Telone li used for nematode control; irrigated 7.0 inches.

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

Tifton, Georgia:
Preliminary Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg bu/acre	3-Yr Avg						
Terral-REV™	28HR20™	267.3	.	.	101	0.57	1.5	20.3	27770	100
Pioneer	P1456HR	257.1	.	.	104	0.55	1.0	19.5	26572	95
Pioneer	P2023HR	256.8	.	.	102	0.55	2.0	18.9	27007	100
Terral-REV™	28R10™	254.3	.	.	101	0.55	1.5	19.0	26572	100
Terral-REV™	26HR50™	253.2	.	.	100	0.58	1.5	20.3	26245	100
Terral-REV™	25HR39™	250.0	.	.	102	0.55	1.5	18.2	25918	100
DeKalb	DKC68-05(GENV3P)	243.9	.	.	103	0.51	1.5	19.2	27334	100
NK	N78S CB/LL	237.8	.	.	100	0.53	1.0	18.4	26245	98
DeKalb	DKC64-69(GENV3P)	235.3	.	.	95	0.56	2.0	18.0	25483	97
AgraTech	X853	227.5	.	.	100	0.45	1.5	18.4	29730	100
Greenwood	EX 3280 RR	224.5	223.6	221.1	101	0.5	1.0	20.3	26681	93
Dyna-Gro	V5373VT3	223.6	.	.	99	0.52	1.5	20.0	25781	97
Dyna-Gro	58VP99	214.3	.	.	99	0.47	1.5	17.9	26354	100
Greenwood	GW 3451 RR	213.4	.	.	98	0.51	2.0	18.7	24938	83
AgraTech	X925RR	213.3	.	.	99	0.49	1.5	19.4	25701	100
Greenwood	GW 3515 RR	198.8	.	.	101	0.51	1.5	18.6	22296	97
Average		235.7 ⁴	223.6	221.1	100	0.52	1.5	19.1	26289	97
LSD at 10% Level		18.0	-	-	4	0.04	N.S. ⁵	0.6	1336	N.S.
Std. Err. of Entry Mean		7.6	-	-	2	0.02	0.2	0.3	562	4

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 = 45.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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, 2010.

Harvested: August 6, 2010.

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

Soil Type: Tifton loamy sand.

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

Fertilization: 87 lb N, 126 lb P₂O₅, and 213 lb K₂O/acre as preplant; 274 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, bedded and rototilled; Atrazine, Prowl, Accent, and Basagran used for weed control; Telone li used for nematode control; irrigated 7.0 inches.

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

Plains, Georgia: Short-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg bu/acre	3-Yr Avg						
Terral-REV™	25R19™	235.4	.	.	.	.	15.8	.	76
Pioneer	P1456HR	233.8	.	.	.	.	15.9	.	99
Dyna-Gro	57N73	230.1	180.5	.	.	.	16.4	.	98	
Dyna-Gro	D55Q80	230.0	.	.	.	.	18.0	.	90
DeKalb	DKC64-69(GENV3P)	228.6	.	.	.	.	16.8	.	51
DeKalb	DKC62-97(GENV3P)	223.3	.	.	.	.	15.0	.	98
Terral-REV™	25HR39™	220.9	184.3	.	.	.	16.7	.	81	
Dyna-Gro	58K02	220.1	.	.	.	.	17.8	.	65
AgraTech	1777	219.0	177.4	.	.	.	15.8	.	91	
Croplan Genetics	7131 VT3	218.6	174.9	.	.	.	15.5	.	52	
DeKalb	DKC63-84(VT3)	215.4	154.4	.	.	.	14.7	.	93	
NK	N78N3000GT	213.1	167.5	.	.	.	18.9	.	73	
NK	N78B GT	205.9	.	.	.	.	17.3	.	90
NK	N77P3000GT	203.7	156.6	.	.	.	16.5	.	29	
Dyna-Gro	V5373VT3	199.9	153.1	166.4	.	.	17.2	.	39	
DeKalb	DKC62-54(VT3)	194.1	163.6	.	.	.	15.9	.	95	
Dyna-Gro	57V59	191.9	.	.	.	.	15.0	.	98
Croplan Genetics	6725 VT3 PRO	170.7	.	.	.	.	15.2	.	70
<i>Average</i>		214.1 ⁴	168.0	166.4	.	.	16.4	.	77	
<i>LSD at 10% Level</i>		19.2	N.S. ⁵	-			0.8		26	
<i>Std. Err. of Entry Mean</i>		8.2	9.7	-			0.4		11	

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 7.6%, and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 1, 2010.
Harvested: August 17, 2010.
Seeding Rate: 33,500 seeds/acre in 30" rows.
Soil Type: Greenville sandy loam.
Soil Test: P = High, K = Very High, and pH = 6.4.
Fertilization: 25 lb N, 100 lb P₂O₅, and 100 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Subsoiled, bedded and rototilled; Prowl and Atrazine used for weed control; Lorsban used for insect control; irrigated 13.0 inches.

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

**Plains, Georgia:
Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Pioneer	P2023HR	235.4	.	.	.	.	.	16.2	.	85
Terral-REV™	28HR20™	230.7	196.7	.	.	.	.	16.5	.	95
Terral-REV™	28R10™	230.0	.	.	.	.	.	15.4	.	95
Terral-REV™	28R30™	223.7	187.9	.	.	.	.	18.3	.	76
NK	N82V3000GT	217.6	189.4	.	.	.	.	17.0	.	89
Terral-REV™	26HR50™	216.3	185.4	.	.	.	.	16.9	.	58
MC	MC-630	216.2	.	.	.	.	.	16.0	.	80
Pioneer	31D58	216.1	180.6	188.1	.	.	.	16.3	.	95
Croplan Genetics	8505 VT3 PRO	212.1	.	.	.	.	.	14.8	.	95
NK	N78S CB/LL	211.7	.	.	.	.	.	16.0	.	87
Pioneer	31P42 (HX1,LL,RR2)	210.3	.	.	.	.	.	16.2	.	83
DeKalb	DKC67-21(GENV3P)	209.3	.	.	.	.	.	16.4	.	65
Pioneer	P1615HR	207.9	.	.	.	.	.	16.2	.	49
Dyna-Gro	58K02	205.9	169.8	.	.	.	.	17.3	.	88
Dyna-Gro	58V69	202.9	165.6	.	.	.	.	17.8	.	100
Dyna-Gro	57GT60	202.1	.	.	.	.	.	16.5	.	76
DeKalb	DKC68-05(GENV3P)	198.8	.	.	.	.	.	15.4	.	95
Terral-REV™	28HR30™	198.4	.	.	.	.	.	17.6	.	58
DeKalb	DKC66-96(GENV3P)	197.9	.	.	.	.	.	15.7	.	65
Golden Acres	27V01	190.0	.	.	.	.	.	14.9	.	90
AgraTech	825RR	187.3	174.3	.	.	.	.	14.8	.	83
Dyna-Gro	D56VP24	184.8	.	.	.	.	.	15.1	.	28
DeKalb	DKC69-71(RR2/YGCB)	184.7	161.4	180.5	.	.	.	16.0	.	55
Golden Acres	28V81	183.4	.	.	.	.	.	15.2	.	78
AgraTech	815CBLL	183.0	.	.	.	.	.	17.0	.	80
Dyna-Gro	58VP99	179.5	.	.	.	.	.	16.4	.	95
Dyna-Gro	V5683VT3	178.3	.	.	.	.	.	14.0	.	58
Croplan Genetics	8756 VT3	176.5	142.0	158.8	.	.	.	16.1	.	69
Croplan Genetics	851 VT3 PRO	168.0	136.6	157.1	.	.	.	15.3	.	23
Croplan Genetics	9009 RH	161.7	.	.	.	.	.	20.5	.	63
MC	MC-590	144.5	129.3	.	.	.	.	16.6	.	15
<i>Average</i>		198.9 ⁴	168.3	171.1	.	.	.	16.3	.	73
<i>LSD at 10% Level</i>		18.9	15.1	14.6	.	.	.	1.0	.	23
<i>Std. Err. of Entry Mean</i>		8.0	6.4	6.0	.	.	.	0.4	.	10

**Plains, Georgia:
Mid-Season Corn Hybrid Performance, 2010, 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 = 8.1%, and df for EMS = 90.

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

Planted: April 1, 2010.

Harvested: August 17, 2010.

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

Soil Type: Greenville sandy loam.

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

Fertilization: 25 lb N, 100 lb P₂O₅, and 100 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, bedded and rototilled; Prowl and Atrazine used for weed control; Lorsban used for insect control; irrigated 13.0 inches.

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

Midville, Georgia:
Short-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Pioneer	P1456HR	285.1	.	.	.	.	.	17.9	.	97
Terral-REV™	25R19™	277.5	.	.	.	.	.	16.4	.	97
Terral-REV™	25HR39™	270.4	265.8	.	.	.	.	16.9	.	94
Dyna-Gro	57N73	268.5	247.8	.	.	.	.	17.1	.	84
AgraTech	1777	250.5	264.3	.	.	.	.	17.2	.	88
DeKalb	DKC64-69(GENV3P)	245.8	.	.	.	.	.	17.6	.	94
DeKalb	DKC63-84(VT3)	244.2	230.1	.	.	.	.	16.0	.	94
Dyna-Gro	D55Q80	243.0	.	.	.	.	.	18.4	.	80
Croplan Genetics	6725 VT3 PRO	235.8	.	.	.	.	.	17.1	.	76
NK	N78N3000GT	233.5	229.3	.	.	.	.	19.4	.	70
Dyna-Gro	V5373VT3	231.9	236.5	225.8	.	.	.	18.5	.	62
Croplan Genetics	7131 VT3	226.3	227.0	.	.	.	.	17.0	.	80
DeKalb	DKC62-54(VT3)	225.7	216.0	.	.	.	.	16.9	.	76
NK	N78B GT	223.6	.	.	.	.	.	18.2	.	100
DeKalb	DKC62-97(GENV3P)	222.9	.	.	.	.	.	15.9	.	100
NK	N77P3000GT	222.0	231.9	.	.	.	.	19.2	.	24
Dyna-Gro	57V59	218.8	.	.	.	.	.	16.9	.	97
Dyna-Gro	58K02	218.4	.	.	.	.	.	17.7	.	81
<i>Average</i>		241.3 ⁴	238.7	225.8	.	.	.	17.5	.	83
<i>LSD at 10% Level</i>		18.1	N.S. ⁵	-	.	.	.	1.5	.	21
<i>Std. Err. of Entry Mean</i>		7.6	6.4	-	.	.	.	0.6	.	9

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 6.3%, and df for EMS = 51.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 6-7, 2010.
Harvested: August 25, 2010.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Medium, K = High, and pH = 6.5.
Fertilization: 100 lb N, 160 lb P₂O₅, and 200 lb K₂O/acre as preplant; 166 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Subsoiled, bedded and field conditioned; Atrazine, Accumen and Accent used for weed control; Telone II used for nematode control; irrigated 8.0 inches.

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

**Midville, Georgia:
Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg bu/acre	3-Yr Avg						
Pioneer	P2023HR	267.8	.	.	.	.	17.1	.	100
Terral-REV™	28R30™	256.1	257.6	.	.	.	18.4	.	94	
MC	MC-630	254.7	.	.	.	.	16.3	.	97
Terral-REV™	28HR30™	254.0	.	.	.	.	18.9	.	87
Terral-REV™	28R10™	253.4	.	.	.	.	17.0	.	100
Terral-REV™	28HR20™	252.7	242.3	.	.	.	17.0	.	100	
Pioneer	P1615HR	251.4	.	.	.	.	17.3	.	97
Pioneer	31D58	250.8	256.3	242.8	.	.	16.9	.	100	
DeKalb	DKC67-21(GENV3P)	247.8	.	.	.	.	17.7	.	97
NK	N82V3000GT	247.4	243.8	.	.	.	17.1	.	90	
Terral-REV™	26HR50™	246.2	243.3	.	.	.	17.4	.	97	
Croplan Genetics	8505 VT3 PRO	245.0	.	.	.	.	15.8	.	94
Dyna-Gro	D56VP24	239.4	.	.	.	.	15.7	.	74
Dyna-Gro	57GT60	235.0	.	.	.	.	17.0	.	94
Croplan Genetics	851 VT3 PRO	234.9	234.4	223.6	.	.	15.9	.	74	
Croplan Genetics	8756 VT3	231.1	234.6	226.6	.	.	17.5	.	90	
Golden Acres	27V01	230.9	.	.	.	.	15.9	.	100
Dyna-Gro	58K02	229.7	221.5	.	.	.	17.3	.	100	
Golden Acres	28V81	229.7	.	.	.	.	15.9	.	97
NK	N78S CB/LL	227.9	.	.	.	.	16.8	.	80
DeKalb	DKC68-05(GENV3P)	224.4	.	.	.	.	16.6	.	100
AgraTech	815CBLL	222.7	.	.	.	.	17.3	.	100
Pioneer	31P42 (HX1,LL,RR2)	222.6	.	.	.	.	16.4	.	97
DeKalb	DKC66-96(GENV3P)	221.6	.	.	.	.	16.6	.	90
Dyna-Gro	V5683VT3	218.3	.	.	.	.	15.7	.	94
AgraTech	825RR	216.3	223.2	.	.	.	15.8	.	97	
DeKalb	DKC69-71(RR2/YGCB)	214.4	215.2	212.7	.	.	17.9	.	87	
MC	MC-590	212.1	213.5	.	.	.	16.5	.	80	
Dyna-Gro	58V69	207.3	222.5	.	.	.	17.4	.	100	
Dyna-Gro	58VP99	201.7	.	.	.	.	15.5	.	97
Croplan Genetics	9009 RH	172.4	.	.	.	.	19.7	.	90
<i>Average</i>		232.9 ⁴	234.0	226.4	.	.	16.9	.	93	
<i>LSD at 10% Level</i>		14.0	13.0	14.7			0.4		12	
<i>Std. Err. of Entry Mean</i>		6.0	5.5	6.1			0.2		5	

**Midville, Georgia:
Mid-Season Corn Hybrid Performance, 2010, 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 = 5.1%, and df for EMS = 90.

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

Planted: April 6-7, 2010.

Harvested: August 25, 2010.

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

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = High, and pH = 6.5.

Fertilization: 100 lb N, 160 lb P₂O₅, and 200 lb K₂O/acre as preplant; 166 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Subsoiled, bedded and field conditioned; Atrazine, Accumen and Accent used for weed control; Telone II used for nematode control; irrigated 8.0 inches.

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

Piedmont Region

Griffin, Georgia:

Short-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
NK	N78N3000GT	276.4	190.9	.	100	0.51	1.8	18.2	31460	100
Terral-REV™	25HR39™	274.5	163.9	.	101	0.50	1.3	16.8	30855	100
Terral-REV™	25R19™	274.1	.	.	102	0.50	1.1	16.4	30492	100
Pioneer	P1456HR	273.2	.	.	103	0.48	1.9	18.0	31581	100
Terral-REV™	25HR49™	272.5	161.4	.	100	0.50	2.0	17.1	31460	100
DeKalb	DKC64-69(GENVT3P)	265.7	.	.	100	0.51	1.6	17.3	29766	100
Terral-REV™	25R29™	265.4	.	.	101	0.51	2.0	17.5	29887	100
NK	N77P3000GT	262.2	189.0	.	100	0.49	1.5	17.5	30613	100
DeKalb	DKC63-84(VT3)	261.3	169.1	.	102	0.49	1.6	16.2	30008	100
DeKalb	DKC62-54(VT3)	256.8	164.4	.	102	0.47	1.5	16.3	30613	100
Croplan Genetics	7131 VT3	249.9	154.7	.	103	0.46	2.1	17.8	30613	100
Croplan Genetics	6725 VT3 PRO	249.1	.	.	103	0.43	1.5	16.3	31702	100
DeKalb	DKC62-97(GENVT3P)	245.3	.	.	100	0.44	1.5	16.1	31702	100
Dyna-Gro	57V59	242.2	.	.	102	0.42	1.5	16.0	31702	100
NK	N78B GT	238.8	.	.	100	0.42	1.6	17.8	32549	100
<i>Average</i>		260.5 ⁴	170.5	.	101	0.48	1.6	17.0	31000	100
<i>LSD at 10% Level</i>		15.0	N.S. ⁵		N.S.	0.03	0.4	0.4	N.S.	-
<i>Std. Err. of Entry Mean</i>		6.3	7.0		1	0.01	0.1	0.2	748	-

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 = 42.

5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 1, 2010.

Harvested: August 31, 2010.

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

Soil Type: Pacolet sandy loam.

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

Fertilization: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre as preplant; 175 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Lasso, Atrazine and one cultivation used for weed control; irrigated 11.0 inches.

Test conducted by J. Gassett and G. Ware.

Griffin, Georgia: Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----								
Terral-REV™	26HR50™	295.6	198.8	.	100	0.55	1.3	18.3	30855	100
Terral-REV™	28R10™	277.4	.	.	100	0.51	1.6	17.1	31097	100
NK	N82V3000GT	272.6	197.1	.	100	0.50	2.1	17.3	31218	100
Pioneer	P1615HR	262.9	.	.	100	0.50	1.5	16.8	30008	100
MC	MC-630	262.3	.	.	101	0.48	1.3	16.0	30613	100
Terral-REV™	28HR30™	261.1	.	.	102	0.48	1.4	18.0	30734	100
Pioneer	P2023HR	260.6	.	.	101	0.49	2.0	17.3	30613	100
Terral-REV™	28HR20™	259.9	187.8	.	104	0.47	1.8	17.0	30844	100
Pioneer	31P42 (HX1,LL,RR2)	259.0	.	.	101	0.47	1.8	16.4	31339	100
NK	N78S CB/LL	255.7	.	.	101	0.48	2.0	16.7	30250	100
DeKalb	DKC66-96(GENVT3P)	255.6	.	.	101	0.46	1.5	16.7	31097	100
Terral-REV™	28R30™	255.4	177.2	.	100	0.48	1.5	18.0	30734	100
DeKalb	DKC67-21(GENVT3P)	248.9	.	.	101	0.46	1.4	17.0	30492	100
Dyna-Gro	58V69	248.5	179.6	.	101	0.44	2.0	17.4	32186	100
MC	MC-590	245.3	164.2	.	100	0.44	1.8	15.8	31218	99
Dyna-Gro	V5683VT3	243.6	.	.	106	0.41	2.1	15.4	31339	100
Croplan Genetics	8756 VT3	238.9	.	.	102	0.42	1.1	16.5	31218	99
Dyna-Gro	D56VP24	231.1	.	.	100	0.42	2.0	16.2	31150	100
Dyna-Gro	58VP99	230.7	.	.	102	0.41	1.6	15.6	30855	100
DeKalb	DKC69-71(RR2/YGCB)	223.8	180.3	172.7	101	0.40	1.1	17.2	31581	100
Golden Acres	27V01	214.6	.	.	100	0.40	2.0	16.0	30129	99
Croplan Genetics	9009 RH	210.0	.	.	100	0.40	1.0	21.0	31207	100
DeKalb	DKC68-05(GENVT3P)	208.7	.	.	101	0.39	2.0	16.2	30008	100
AgraTech	815CBLL	194.4	.	.	99	0.36	2.0	16.8	30976	94
<i>Average</i>		246.5 ⁴	183.6	172.7	101	0.45	1.7	16.9	30907	99
<i>LSD at 10% Level</i>		21.4	N.S. ⁵	-	2	0.03	0.3	0.9	N.S.	N.S.
<i>Std. Err. of Entry Mean</i>		9.1	8.6	-	1	0.02	0.1	0.4	502	1

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 7.4%, and df for EMS = 69.

5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 1, 2010.

Harvested: August 31, 2010.

Seeding Rate: 32.500 seeds/acre in 30" rows.

Soil Type: Pacolet sandy loam.

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

Fertilization: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre as preplant; 175 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Lasso, Atrazine and one cultivation used for weed control; irrigated 11.0 inches.

Test conducted by J. Gassett and G. Ware.

North Georgia Region

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
DeKalb	DKC64-69(GENVT3P)	117.5	.	.	100	0.29	1.5	20.9	24612	99
NK	N77P3000GT	103.8	129.7	.	98	0.25	1.5	18.7	24285	100
DeKalb	DKC62-97(GENVT3P)	99.3	.	.	100	0.23	1.8	16.8	24502	98
Croplan Genetics	6725 VT3 PRO	98.6	.	.	98	0.26	1.4	20.5	23305	96
Croplan Genetics	7131 VT3	95.3	135.6	.	95	0.26	2.4	20.2	23413	100
NK	N78N3000GT	90.7	.	.	99	0.23	2.1	21.9	24611	100
Dyna-Gro	V5373VT3	88.9	121.7	.	98	0.21	1.9	17.6	24829	95
Pioneer	P1456HR	80.8	.	.	93	0.22	1.6	18.3	23196	91
Terral-REV™	25HR49™	79.3	103.3	.	90	0.20	2.1	19.5	25265	95
Terral-REV™	25HR39™	78.4	114.3	.	98	0.19	1.8	18.0	24503	92
Dyna-Gro	57N73	74.5	104.1	.	95	0.19	1.8	17.4	23849	71
NK	N78B GT	71.0	.	.	97	0.20	1.6	20.4	22978	94
Terral-REV™	25R19™	66.5	.	.	96	0.17	1.6	21.0	24394	78
Terral-REV™	25R29™	63.7	.	.	80	0.18	2.5	18.3	24720	96
<i>Average</i>		86.3 ⁴	118.1	.	95	0.22	1.8	19.2	24176	93
<i>LSD at 10% Level</i>		22.1	15.8	.	8	0.06	0.5	3.1	N.S. ⁵	8
<i>Std. Err. of Entry Mean</i>		9.5	9.3	.	4	0.02	0.2	1.3	823	3

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 22.1%, and df for EMS = 39.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 15, 2010.
 Harvested: August 30, 2010.
 Seeding Rate: 26,000 seeds/acre in 30" rows.
 Soil Type: Wax loam.
 Soil Test: P = High, K = High, and pH = 6.0.
 Fertilization: 80 lb N, 120 lb P₂O₅, and 320 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.
 Previous Crop: Fallow.
 Management: Moldboard plowed, disked and rototilled; Lasso, Basagran, Accent, Atrazine and one cultivation used for weed control; Lorsban used for insect control.

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

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----								
DeKalb	DKC68-05(GENVT3P)	119.6	.	.	100	0.29	1.5	20.0	24612	100
Golden Acres	27V01	114.0	.	.	100	0.27	1.6	17.8	24067	93
DeKalb	DKC66-96(GENVT3P)	113.7	.	.	97	0.29	1.4	16.6	23305	96
NK	N78S CB/LL	103.4	.	.	98	0.26	1.9	17.2	23196	96
Dyna-Gro	V5683VT3	101.8	.	.	100	0.25	2.0	19.6	24285	92
Dyna-Gro	D56VP24	101.8	.	.	97	0.25	1.5	18.4	24394	97
Dyna-Gro	58VP99	95.7	.	.	99	0.23	1.6	18.1	24285	99
DeKalb	DKC69-71(RR2/YGCB)	95.4	127.5	124.1	97	0.24	1.5	19.2	23632	100
Terral-REV™	28R10™	94.5	.	.	94	0.23	1.5	17.8	24829	93
NK	N82V3000GT	93.9	111.7	.	92	0.26	1.9	20.6	23196	100
Dyna-Gro	58V69	92.4	121.5	.	98	0.22	2.0	18.5	24176	100
Pioneer	P1615HR	89.6	.	.	98	0.24	1.5	18.7	22325	85
Pioneer	P2023HR	87.3	.	.	92	0.23	1.8	17.6	24067	94
Croplan Genetics	8756 VT3	81.3	.	.	96	0.20	1.9	21.9	24938	100
Croplan Genetics	9009 RH	76.9	.	.	94	0.22	1.4	22.8	22869	100
AgraTech	815CBLL	76.8	.	.	96	0.19	1.6	17.8	24285	78
Terral-REV™	26R60™	76.8	114.5	.	90	0.21	2.3	16.6	23305	80
MC	MC-590	75.9	107.2	.	90	0.22	1.8	16.8	21344	91
Terral-REV™	28HR20™	74.4	109.8	.	81	0.23	1.5	18.9	23087	98
Terral-REV™	26HR70™	73.4	111.3	.	88	0.20	2.0	17.1	23087	93
MC	MC-630	71.6	.	.	101	0.17	1.4	16.6	24067	77
Pioneer	31P42 (HX1,LL,RR2)	65.5	.	.	85	0.18	2.0	19.1	24393	100
Terral-REV™	28HR29™	46.2	.	.	78	0.14	1.8	19.0	23958	99
<i>Average</i>		87.9 ⁴	114.8	124.1	94	0.23	1.7	18.6	23726	94
<i>LSD at 10% Level</i>		24.4	N.S. ⁵	-	12	0.05	0.4	1.5	N.S.	6
<i>Std. Err. of Entry Mean</i>		10.3	8.2	-	5	0.02	0.2	0.6	705	2

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 23.5%, and df for EMS = 66.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 15, 2010.
Harvested: August 30, 2010.
Seeding Rate: 25,500 seeds/acre in 30" rows.
Soil Type: Wax loam.
Soil Test: P = High, K = High, and pH = 6.0.
Fertilization: 80 lb N, 120 lb P₂O₅, and 320 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.
Previous Crop: Fallow.
Management: Moldboard plowed, disked and rototilled; Lasso, Basagran, Accent, Atrazine and one cultivation used for weed control; Lorsban used for insect control.

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

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		----- bu/acre	-----	-----	no.	lb	rating	%	no.	%
DeKalb	DKC64-69(GENVT3P)	232.3	.	.	100	0.43	1.4	19	31908	100
Dyna-Gro	57N73	222.1	221.2	.	101	0.43	1.5	18.8	29621	99
NK	N78N3000GT	204.6	.	.	100	0.40	1.6	21.2	30601	100
NK	N77P3000GT	203.4	211.2	.	101	0.42	1.9	18.9	28096	100
DeKalb	DKC62-97(GENVT3P)	202.6	.	.	101	0.38	1.9	18.4	30601	100
Terral-REV™	25R19™	197.7	.	.	99	0.40	1.3	18.3	29185	100
Croplan Genetics	6725 VT3 PRO	197.4	.	.	100	0.37	1.8	18.0	30710	100
Terral-REV™	25R29™	191.4	.	.	99	0.39	2.5	18.7	28641	100
Pioneer	P1456HR	191.2	.	.	99	0.38	1.5	17.9	29512	100
Dyna-Gro	V5373VT3	185.6	205.3	.	101	0.37	1.4	19.0	28967	100
Croplan Genetics	7131 VT3	183.4	208.4	.	105	0.37	2.5	19.3	27443	100
Terral-REV™	25HR49™	180.8	201.6	.	98	0.37	2.5	19.1	29077	100
NK	N78B GT	175.0	.	.	101	0.33	1.9	18.5	30165	100
Terral-REV™	25HR39™	173.0	203.4	.	99	0.37	1.5	18.3	26898	99
<i>Average</i>		195.7 ⁴	208.5	.	100	0.39	1.8	18.8	29387	100
<i>LSD at 10% Level</i>		N.S. ⁵	N.S.	.	3	0.05	0.3	0.6	2314	N.S.
<i>Std. Err. of Entry Mean</i>		13.3	9.4	.	1	0.02	0.1	0.2	971	1

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 13.6%, and df for EMS = 39.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 15, 2010.
Harvested: August 30, 2010.
Seeding Rate: 32,500 seeds/acre in 30" rows.
Soil Type: Etowah loam.
Soil Test: P = High, K = High, and pH = 6.3.
Fertilization: 98 lb N, 72 lb P₂O₅, and 144 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.
Previous Crop: Soybeans.
Management: Moldboard plowed, disked and rototilled; Lasso, Basagran, Accent, Atrazine and one cultivation used for weed control; Lorsban used for insect control; irrigated 14.0 inches.

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

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg bu/acre	3-Yr Avg						
Pioneer	P1615HR	215.5	.	.	101	0.45	1.4	19.7	27770	100
Golden Acres	27V01	211.0	.	.	100	0.41	2.0	18.8	29947	100
Terral-REV™	28HR29™	207.7	.	.	100	0.41	1.3	20.4	30056	100
Dyna-Gro	D56VP24	203.9	.	.	100	0.41	1.8	18.4	29294	100
Terral-REV™	26HR70™	202.1	205.3	.	100	0.40	1.5	18.9	29512	100
Dyna-Gro	V5683VT3	200.7	.	.	102	0.39	2.1	17.8	28750	100
Croplan Genetics	8756 VT3	200.6	.	.	101	0.41	1.8	20.8	28859	100
DeKalb	DKC68-05(GENVT3P)	194.2	.	.	101	0.38	1.6	19.2	29621	100
DeKalb	DKC66-96(GENVT3P)	193.4	.	.	101	0.37	1.5	17.9	30166	100
NK	N82V3000GT	191.6	208.4	.	100	0.39	2.0	19.6	29076	100
MC	MC-630	191.2	.	.	101	0.37	1.3	17.8	29730	99
Terral-REV™	28R10™	189.2	.	.	101	0.40	1.8	19.2	27661	100
Pioneer	31P42 (HX1,LL,RR2)	188.9	.	.	99	0.40	1.3	18.3	27661	100
NK	N78S CB/LL	181.5	.	.	98	0.38	1.6	18.7	28314	100
Pioneer	P2023HR	179.1	.	.	100	0.35	1.6	18.1	29948	100
Terral-REV™	28HR20™	178.3	195.2	.	97	0.38	1.9	19.1	27988	100
Dyna-Gro	58VP99	175.9	.	.	102	0.34	1.6	18.2	29730	100
Terral-REV™	26R60™	162.3	183.4	.	98	0.36	2.1	18.2	26790	99
MC	MC-590	162.1	176.5	.	100	0.34	1.5	18.6	28096	99
Dyna-Gro	58V69	157.3	189.3	.	99	0.32	2.0	18.9	29403	100
DeKalb	DKC69-71(RR2/YGCB)	155.2	181.4	188.2	101	0.31	1.3	20.4	29185	100
AgraTech	815CBLL	152.7	.	.	100	0.32	1.6	18.9	27661	100
Croplan Genetics	9009 RH	145.9	.	.	100	0.31	1.3	22.7	28750	100
<i>Average</i>		184.3 ⁴	191.4	188.2	100	0.37	1.6	19.1	28868	100
<i>LSD at 10% Level</i>		27.6	N.S. ⁵	-	2	0.05	0.3	0.7	N.S.	N.S.
<i>Std. Err. of Entry Mean</i>		11.7	7.2	-	1	0.02	0.1	0.3	840	1

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 12.7%, and df for EMS = 66.

5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a 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 15, 2010.

Harvested: August 30, 2010.

Seeding Rate: 31,500 seeds/acre in 30" rows.

Soil Type: Etowah loam.

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

Fertilization: 98 lb N, 72 lb P₂O₅, and 144 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Lasso, Basagran, Accent, Atrazine and one cultivation used for weed control; Lorsban used for insect control; irrigated 14.0 inches.

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

Blairsville, Georgia: Short-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		----- bu/acre	-----	-----	no.	lb	rating	%	no.	%
Terral-REV™	25R19™	293.4	.	.	101	0.55	1.4	16.0	29524	88
Terral-REV™	25R29™	285.7	.	.	100	0.54	1.5	15.8	29887	90
Dyna-Gro	57N73	282.9	254.7	.	101	0.54	1.0	15.9	29282	86
Pioneer	P1456HR	280.1	.	.	107	0.50	1.5	15.9	29887	98
Terral-REV™	25HR39™	275.1	256.3	.	100	0.50	1.3	15.8	30976	86
Terral-REV™	25HR49™	273.1	250.0	.	101	0.51	1.8	16.0	29766	88
DeKalb	DKC64-69(GENVT3P)	271.1	.	.	101	0.53	1.4	15.9	28677	97
NK	N78N3000GT	268.2	.	.	100	0.52	1.5	16.4	29161	97
NK	N77P3000GT	256.5	244.1	.	100	0.50	1.5	16.8	29282	96
NK	N78B GT	248.8	.	.	101	0.47	1.5	16.5	29766	80
DeKalb	DKC62-97(GENVT3P)	248.4	.	.	101	0.47	1.3	15.2	29282	95
Dyna-Gro	V5373VT3	245.6	232.2	.	101	0.46	1.4	16.1	30129	91
Croplan Genetics	7131 VT3	233.0	216.1	.	106	0.44	1.9	17.6	28677	55
Croplan Genetics	6725 VT3 PRO	229.4	.	.	102	0.44	1.5	16.5	28919	57
Dyna-Gro	57V59	228.3	.	.	99	0.43	2.0	15.6	29887	91
<i>Average</i>		261.3 ⁴	242.2	.	101	0.49	1.5	16.1	29540	86
<i>LSD at 10% Level</i>		12.3	11.4	.	3	0.04	0.2	0.7	N.S. ⁵	14
<i>Std. Err. of Entry Mean</i>		5.2	4.8	.	1	0.01	0.1	0.3	560	6

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 4.0%, and df for EMS = 42.
5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a LSD value was not calculated.

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

Planted: April 29, 2010.
 Harvested: October 5, 2010.
 Seeding Rate: 31,000 seeds/acre in 30" rows.
 Soil Type: Suches loam.
 Soil Test: P = Low, K = Very High, and pH = 6.6.
 Fertilization: 96 lb N, 56 lb P₂O₅, and 73 lb K₂O/acre as preplant; 90 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Moldboard plowed, disked and rototilled; Eradicane, Accent, Callisto and two cultivations used for weed control.

Test conducted by J. Gassett, G. Ware and H. Garrett.

Blairsville, Georgia: Mid-Season Corn Hybrid Performance, 2010, 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 %
		2010	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----								
Terral-REV™	26HR70™	298.6	271.6	.	100	0.56	1.5	15.9	30129	93
Terral-REV™	28R10™	286.4	.	.	100	0.55	1.6	16.4	29524	84
Terral-REV™	26R60™	285.4	258.9	.	100	0.53	1.9	16.0	30129	72
Pioneer	P2023HR	284.6	.	.	100	0.54	1.8	16.5	29766	76
Pioneer	P1615HR	283.7	.	.	101	0.54	1.6	16.5	29645	66
Terral-REV™	28HR20™	282.6	266.3	.	101	0.53	1.5	16.4	29887	74
Pioneer	31P42(HX1,LL,RR2)	280.3	.	.	101	0.53	1.8	16.3	30008	96
MC	MC-630	274.9	.	.	100	0.52	1.6	15.8	29524	69
Terral-REV™	28HR29™	274.4	.	.	98	0.54	1.6	18.0	30129	99
NK	N82V3000GT	273.3	255.8	.	100	0.53	1.6	17.2	29524	85
NK	N78S CB/LL	270.3	.	.	100	0.51	1.9	16.0	30129	77
Dyna-Gro	58V69	257.1	251.2	.	101	0.50	2.1	17.7	29524	94
DeKalb	DKC69-71(RR2/YGCB)	252.9	243.7	222.8	103	0.48	1.3	16.5	28919	81
AgraTech	815CBLL	250.6	.	.	99	0.50	1.5	17.5	29040	80
Golden Acres	27V01	244.5	.	.	99	0.48	2.1	16.9	29282	32
Dyna-Gro	D56VP24	242.0	.	.	101	0.47	2.4	17.8	29161	34
DeKalb	DKC66-96(GENVT3P)	235.2	.	.	99	0.45	1.5	15.6	29766	75
Dyna-Gro	58VP99	231.3	.	.	102	0.43	1.4	16.0	30008	55
MC	MC-590	230.8	208	.	100	0.46	2.0	16.4	28677	40
Croplan Genetics	8756 VT3	229.3	.	.	101	0.44	1.5	17.6	29524	31
DeKalb	DKC68-05(GENVT3P)	228.9	.	.	101	0.43	1.9	16.6	29645	54
Croplan Genetics	9009 RH	225.5	.	.	97	0.48	1.3	22.4	29645	96
<i>Average</i>		260.1 ⁴	250.8	222.8	100	0.50	1.7	16.9	29618	71
<i>LSD at 10% Level</i>		19.0	13.9	-	N.S. ⁵	0.04	0.4	0.7	N.S.	23
<i>Std. Err. of Entry Mean</i>		8.0	5.8	-	1	0.02	0.2	0.3	517	10

1. Yields calculated at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 6.2%, and df for EMS = 63.

5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore a LSD value was not calculated.

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

Planted: April 29, 2010.

Harvested: October 5, 2010.

Seeding Rate: 31,000 seeds/acre in 30" rows.

Soil Type: Suches loam.

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

Fertilization: 96 lb N, 56 lb P₂O₅, and 73 lb K₂O/acre as preplant; 90 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Eradicane, Accent, Callisto and two cultivations used for weed control.

Test conducted by J. Gasset, G. Ware and H. Garrett.

Silage Test Results

Summary of Evaluations of Corn Hybrids for Silage Blairsville, Calhoun, Griffin, and Tifton, Georgia, 2010

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 -----				
<u>Short -Season</u>									
AgraTech	1777	2350	34367	46	.	.	.	.	15.1
Dyna-Gro	57N73	2499	35984	45	12.0	10.6	8.9	13.7	14.8
Dyna-Gro	V5373VT3	2368	30781	48	11.0	10.2	9.1	11.8	12.7
Pioneer	33F87(HX1,LL,RR2)	2324	36857	48	11.1	10.7	8.0	9.8	15.9
<i>Average</i>		2385	34497	47	11.4	10.5	8.7	11.8	14.6
<u>Mid-Season</u>									
AgraTech	1021RR	2207	29676	38	11.0	8.6	9.4	11.7	14.4
AgraTech	825RR	2161	28157	48	.	.	.	.	13.0
AgraTech	999aRR	2133	30395	40	11.8	11.5	9.7	11.6	14.3
Croplan Genetics	8221 VT3	2123	27495	44	10.9	10.0	8.8	11.5	13.2
Croplan Genetics	8756 VT3	1992	26429	46	.	.	.	.	13.3
Croplan Genetics	9009 RH	2040	26243	39	11.4	12.0	8.1	12.8	12.7
DeKalb	DKC67-88(GENVT3P)	2241	33203	43	12.3	11.6	9.8	13.0	14.8
Dyna-Gro	58K02	2235	31073	50	.	.	.	.	14.1
Dyna-Gro	58V69	1965	30494	43	11.8	10.8	9.4	12.7	14.5
Dyna-Gro	58VP99	1986	24919	51	10.8	10.1	8.3	12.4	12.3
Golden Acres	27V01	2169	26854	48	10.8	10.1	8.5	12.5	12.2
Golden Acres	28V71	2346	33777	42	11.7	10.4	10.1	12.2	14.2
Golden Acres	X-6022GTGB	2038	25868	49	.	.	.	.	14.2
Greenwood	GW 3280 RR	2070	28614	44	10.5	10.4	8.7	10.0	12.8
Greenwood	GW 3451 RR	2082	25306	46	10.3	8.7	8.2	12.2	12.2
Greenwood	GW 3515 RR	2402	33752	48	10.2	9.0	7.0	11.2	13.7
MC	MC-590	2343	32889	45	11.6	10.1	8.8	13.1	14.3
Mycogen	TMF2H918RR	2152	26715	38	11.9	11.9	10.6	12.8	12.4
Mycogen	TMF2L831	2403	32468	46	12.6	11.7	12.1	12.4	14.3
Pioneer	31P42(HX1,LL,RR2)	2193	31130	46	11.5	11.0	9.6	11.5	13.7
Pioneer	31Y42(RR2)	2362	34002	45	.	.	.	.	15.1
Pioneer	P2023HR	2241	33673	47	12.3	12.5	10.5	12.5	13.9
<i>Average</i>		2176	29688	45	11.4	10.6	9.3	12.1	13.6
<i>Overall test averages and statistics:</i>									
<i>Average</i>		2208 ³	30427 ⁴	45	11.4 ⁵	10.6	9.2	12.1	13.8
<i>LSD at 10% Level</i>		238	4549	4	0.7	1.3	1.7	1.5	1.5
<i>Std. Err. of Entry Mean</i>		99	1889	2	0.3	0.6	0.7	1.3	0.6

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 = 6.3%, and df for EMS = 25.

4. CV = 8.8%, and df for EMS = 25.

5. CV = 6.8%, and df for EMS = 228.

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, 2010

Company or Brand Name	Hybrid Name	Quality Factors ¹							Dry Matter Yield	
		Milk Production ²		Protein %	NDF %	ADF %	TDN %	Ash %	Grain	
		lbs/ton DM	lbs/acre						Portion %	Tifton tons/acre
Short -Season										
AgraTech	1777	2350	34367	11.7	43.5	27.6	71.0	5.9	46	15.1
Dyna-Gro	57N73	2499	35984	11.6	40.5	26.6	72.2	5.7	45	14.8
Dyna-Gro	V5373VT3	2368	30781	11.2	43.2	27.1	71.7	5.3	48	12.7
Pioneer	33F87(HX1,LL,RR2)	2324	36857	11.6	43.1	27.2	71.5	5.9	48	15.9
<i>Average</i>		2385	34497	11.5	42.6	27.1	71.6	5.7	47	14.6
Mid-Season										
AgraTech	1021RR	2207	29676	11.3	48.3	31.4	66.8	5.6	38	14.4
AgraTech	825RR	2161	28157	10.5	45.6	29.3	69.2	5.4	48	13.0
AgraTech	999aRR	2133	30395	10.4	48.3	30.3	68.0	5.5	40	14.3
Croplan Genetics	8221 VT3	2123	27495	11.2	43.4	28.2	70.4	5.4	44	13.2
Croplan Genetics	8756 VT3	1992	26429	10.2	47.0	29.4	69.1	5.8	46	13.3
Croplan Genetics	9009 RH	2040	26243	10.2	53.2	32.1	66.0	5.8	39	12.7
DeKalb	DKC67-88(GENVT3P)	2241	33203	10.2	44.4	28.5	70.0	5.0	43	14.8
Dyna-Gro	58K02	2235	31073	11.2	43.8	28.1	70.5	6.0	50	14.1
Dyna-Gro	58V69	1965	30494	11.6	50.7	30.6	67.7	5.7	43	14.5
Dyna-Gro	58VP99	1986	24919	10.8	47.1	30.0	68.4	5.5	51	12.3
Golden Acres	27V01	2169	26854	10.9	41.9	25.7	73.2	5.6	48	12.2
Golden Acres	28V71	2346	33777	12.1	43.1	27.1	71.7	6.0	42	14.2
Golden Acres	X-6022GT3B	2038	25868	10.6	44.3	28.5	70.0	6.4	49	14.2
Greenwood	GW 3280 RR	2070	28614	10.6	49.3	29.8	68.5	5.9	44	12.8
Greenwood	GW 3451 RR	2082	25306	11.0	46.8	29.8	68.5	6.4	46	12.2
Greenwood	GW 3515 RR	2402	33752	12.0	39.4	25.4	73.6	5.7	48	13.7
MC	MC-590	2343	32889	11.4	44.1	28.6	70.0	5.6	45	14.3
Mycogen	TMF2H918RR	2152	26715	9.9	50.7	31.6	66.5	6.3	38	12.4
Mycogen	TMF2L831	2403	32468	13.1	41.0	25.7	73.2	5.9	46	14.3
Pioneer	31P42(HX1,LL,RR2)	2193	31130	11.3	47.7	29.7	68.7	4.6	46	13.7
Pioneer	31Y42(RR2)	2362	34002	11.3	45.3	29.1	69.3	6.0	45	15.1
Pioneer	P2023HR	2241	33673	12.3	42.7	28.1	70.5	6.5	47	13.9
<i>Average</i>		2176	29688	11.1	45.8	29.0	69.5	5.8	45	13.6
<i>Overall test averages and statistics:</i>										
<i>Average</i>		2208 ³	30427 ⁴	11.1	45.3	28.7	69.9	5.7	45	13.8
<i>LSD at 10% Level</i>		238	4549	1.3	4.7	2.8	3.2	0.7	4	1.5
<i>Std. Err. of Entry Mean</i>		99	1889	0.6	2.0	0.9	1.3	0.3	2	0.6

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 = 6.3%, and df for EMS = 25.

4. CV = 8.8%, and df for EMS = 25.

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, 2010, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg
		Dry tons/acre	Green tons/acre				Dry Forage Yield tons/acre
<u>Short-Season</u>							
Pioneer	33F87 (HX1,LL,RR2)	15.9	31.9	50.0	48	33541	.
AgraTech	1777	15.1	33.8	44.7	46	31955	13.0
Dyna-Gro	57N73	14.8	33.8	43.9	45	32789	.
Dyna-Gro	V5373VT3	12.8	29.3	43.5	48	34061	10.8
<i>Average</i>		<i>14.7</i>	<i>32.2</i>	<i>45.5</i>	<i>47</i>	<i>33086</i>	<i>11.9</i>
<u>Mid-Season</u>							
Pioneer	31Y42(RR2)	15.1	35.0	43.3	45	32318	12.2
DeKalb	DKC67-88(GENVT3P)	14.8	33.0	45.2	43	31442	.
Dyna-Gro	58V69	14.5	31.3	46.7	43	32017	12.5
AgraTech	1021RR	14.4	35.1	41.1	38	31581	13.0
AgraTech	999aRR	14.4	33.5	42.9	40	30928	12.0
Mycogen	TMF2L831	14.3	32.8	43.6	46	32693	.
Golden Acres	28V71	14.2	31.9	44.7	42	31955	.
MC	MC-590	14.2	34.6	41.3	45	33106	12.1
Golden Acres	X-6022GTCB	14.2	28.2	50.3	49	33542	.
Dyna-Gro	58K02	14.1	31.8	44.3	50	30710	.
Pioneer	P2023HR	13.9	30.1	46.1	47	33324	.
Greenwood	GW 3515 RR	13.7	32.3	42.6	48	30928	.
Pioneer	31P42 (HX1,LL,RR2)	13.7	31.8	43.1	46	32206	.
Croplan Genetics	8756 VT3	13.3	31.0	42.8	46	30794	.
Croplan Genetics	8221 VT3	13.2	28.4	46.9	44	33698	11.7
AgraTech	825RR	13.0	29.2	44.7	48	31799	.
Greenwood	EX 3280 RR	12.8	29.1	43.8	44	32017	10.9
Croplan Genetics	9009 RH	12.7	30.5	41.9	39	32826	.
Mycogen	TMF2H918RR	12.4	29.9	41.6	38	33083	.
Dyna-Gro	58VP99	12.3	25.7	48.2	51	32888	.
Golden Acres	27V01	12.2	29.2	42.1	48	33187	.
Greenwood	GW 3451 RR	12.2	27.5	44.6	46	30274	.
<i>Average</i>		<i>13.6</i>	<i>31.0</i>	<i>44.2</i>	<i>44.8</i>	<i>32151</i>	<i>12.1</i>
<i>Overall test averages and statistics:</i>							
Average		13.8 ¹	31.2 ²	44.4	45	32295	12
LSD at 10% Level		1.5	3.0	3.9	4	1371	N.S. ³
Std. Err. of Entry Mean		0.6	1.3	1.7	2	582	0.6

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2010, Irrigated (Continued)

1. CV = 9.4%, and df for EMS = 75.
2. CV = 8.4%, and df for EMS = 75.
3. The F-test indicated no statistical differences at the alpha = .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, 2010.

Harvested: July 21, 2010.

Seeding Rate: 34,900 seeds/acre in 30" rows.

Soil Type: Tifton loamy sand.

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

Fertilization: 87 lb N, 126 lb P₂O₅, and 213 lb K₂O/acre as preplant; 274 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management:

Subsoiled, bedded and rototilled; Atrazine, Prowl, Accent, and Basagran used for weed control; Telone II used for nematode control; irrigated 8.0 inches.

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

Griffin, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg Dry Forage Yield tons/acre
		Dry tons/acre	Green tons/acre				
<u>Short-Season</u>							
Dyna-Gro	57N73	13.7	27.5	50.4	48	31218	.
Dyna-Gro	V5373VT3	11.8	25.9	45.3	52	31702	.
Pioneer	33F87 (HX1,LL,RR2)	9.8	25.6	38.7	48	29524	.
<i>Average</i>		<i>11.8</i>	<i>26.3</i>	<i>44.i</i>	<i>49</i>	<i>30815</i>	.
<u>Mid-Season</u>							
MC	MC-590	13.2	28.3	46.5	52	30734	.
DeKalb	DKC67-88(GENVT3P)	13.0	30.1	43.1	46	28556	.
Mycogen	TMF2H918RR	12.9	31.5	40.8	41	31944	.
Croplan Genetics	9009 RH	12.8	31.0	41.2	40	31218	.
Dyna-Gro	58V69	12.7	34.6	36.6	45	31460	.
Pioneer	P2023HR	12.5	27.0	46.7	52	30976	.
Golden Acres	27V01	12.5	24.0	53.6	51	30976	.
Dyna-Gro	58VP99	12.4	23.9	52.5	50	31460	.
Mycogen	TMF2L831	12.4	26.7	46.4	48	31218	.
Greenwood	GW 3451 RR	12.2	29.4	41.6	50	30008	.
Golden Acres	28V71	12.2	27.8	43.9	45	30734	.
AgraTech	1021RR	11.7	30.8	38.2	40	31702	.
AgraTech	999aRR	11.6	28.0	41.5	40	30734	.
Pioneer	31P42 (HX1,LL,RR2)	11.6	25.6	45.2	49	30976	.
Croplan Genetics	8221 VT3	11.5	26.3	44.4	47	30008	.
Greenwood	GW 3515 RR	11.2	25.5	44.1	52	32186	.
Greenwood	EX 3280 RR	10.0	25.9	38.7	49	31218	.
<i>Average</i>		<i>12.1</i>	<i>28.0</i>	<i>43.8</i>	<i>47</i>	<i>30948</i>	.
<i>Overall test averages and statistics:</i>							
<i>Average</i>		12.1 ¹	27.8 ²	44.0	47	30928	.
<i>LSD at 10% Level</i>		1.5	3.2	5.9	3	N.S. ³	.
<i>Std. Err. of Entry Mean</i>		0.6	1.3	2.5	1	780	.

1. CV = 10.5%, and df for EMS = 57.

2. CV = 9.7%, and df for EMS = 57.

3. The F-test indicated no statistical differences at the alpha = .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 1, 2010.

Harvested: August 8, 2010.

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

Soil Type: Pacolet sandy loam.

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

Fertilization: 75 lb N, 150 lb P₂O₅, and 225 lb K₂O/acre as preplant; 175 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Lasso, Atrazine and one cultivation used for weed control; irrigated 11.0 inches.

Test conducted by J. Gassett and G. Ware.

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Irrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg
		Dry tons/acre	Green tons/acre				Dry Forage Yield tons/acre
<u>Short-Season</u>							
Dyna-Gro	V5373VT3	9.1	19.8	46.4	46	29403	8.6
Dyna-Gro	57N73	8.9	20.2	44.0	45	30274	.
Pioneer	33F87 (HX1,LL,RR2)	8.0	19.2	42.1	44	28314	.
<i>Average</i>		<i>8.7</i>	<i>19.7</i>	<i>44.2</i>	<i>45</i>	<i>29330</i>	<i>8.6</i>
<u>Mid-Season</u>							
Mycogen	TMF2L831	12.1	22.2	54.1	45	29899	.
Mycogen	TMF2H918RR	10.6	23.5	45.4	35	30911	.
Pioneer	P2023HR	10.5	19.6	53.8	46	30492	.
Golden Acres	28V71	10.1	20.5	49.7	41	28750	.
DeKalb	DKC67-88(GENVT3P)	9.8	22.4	44.2	45	29621	.
AgraTech	999aRR	9.8	18.3	53.6	43	27879	11.6
Pioneer	31P42 (HX1,LL,RR2)	9.6	18.4	52.0	41	30274	.
Dyna-Gro	58V69	9.4	21.1	44.5	40	29839	9.0
AgraTech	1021RR	9.3	22.2	42.2	35	27661	.
MC	MC-590	8.8	22.3	39.7	46	29185	9.2
Croplan Genetics	8221 VT3	8.8	20.6	42.8	42	28314	9.5
Greenwood	EX 3280 RR	8.7	16.7	52.9	47	26789	8.8
Golden Acres	27V01	8.5	19.5	43.5	47	30057	.
Dyna-Gro	58VP99	8.3	17.5	47.7	42	28968	.
Greenwood	GW 3451 RR	8.2	17.9	45.7	45	26572	.
Croplan Genetics	9009 RH	8.2	19.8	41.7	38	28968	.
Greenwood	GW 3515 RR	7.1	16.0	44.7	48	28126	.
<i>Average</i>		<i>9.3</i>	<i>19.9</i>	<i>47.0</i>	<i>43</i>	<i>28959</i>	<i>9.6</i>
<i>Overall test averages and statistics:</i>							
<i>Average</i>		9.2 ¹	19.9 ²	46.5	43	29015	9.4
<i>LSD at 10% Level</i>		1.7	3.3	5.1	5	2314	N.S. ³
<i>Std. Err. of Entry Mean</i>		0.7	1.4	2.2	2	978	0.4

1. CV = 15.7%, and df for EMS = 57.

2. CV = 14.1%, and df for EMS = 57.

3. The F-test indicated no statistical differences at the alpha = .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 15, 2010.

Harvested: August 24, 2010.

Seeding Rate: 31,000 seeds/acre in 30" rows.

Soil Type: Etowah loam.

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

Fertilization: 98 lb N, 120 lb P₂O₅, and 320 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Lasso, Basagran, Accent, Atrazine and one cultivation used for weed control; Lorsban used for insect control; irrigated 14.0 inches.

Test conducted by J. Gasset and G. Ware.

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2010, Nonirrigated

Company or Brand Name	Hybrid Name	Forage Yield		Dry Matter %	Grain Portion %	Plant Population no.	2-Yr Avg
		Dry tons/acre	Green tons/acre				Dry Forage Yield tons/acre
<u>Short-Season</u>							
Pioneer	33F87(HX1,LL,RR2)	10.7	20.9	51.3	51	30250	.
Dyna-Gro	57N73	10.6	19.6	54.6	53	30250	.
Dyna-Gro	V5373VT3	10.3	23.2	44.2	51	30008	10.4
<i>Average</i>		<i>10.5</i>	<i>21.2</i>	<i>50</i>	<i>52</i>	<i>30169</i>	<i>10.4</i>
<u>Mid-Season</u>							
Pioneer	P2023HR	12.5	23.5	53.5	54	30008	.
Croplan Genetics	9009 RH	12.0	34.1	35.7	42	30008	.
Mycogen	TMF2H918RR	11.9	31.6	37.6	44	29524	.
Mycogen	TMF2L831	11.8	18.5	64.4	50	30250	.
DeKalb	DKC67-88(GENVT3P)	11.6	24.2	48.3	53	29766	.
AgraTech	999aRR	11.5	29.8	39.1	43	30250	10.9
Pioneer	31P42(HX1,LL,RR2)	11.0	21.1	52.4	51	30250	.
Dyna-Gro	58V69	10.8	29.2	37.3	47	29766	11.9
Greenwood	GW 3280 RR	10.4	21.0	49.8	48	30008	11.2
Golden Acres	28V71	10.4	18.2	57.5	52	30008	.
Golden Acres	27V01	10.1	17.2	59.3	53	29766	.
Dyna-Gro	58VP99	10.1	18.8	53.7	52	29766	.
MC	MC-590	10.1	16.0	63.2	53	29282	10.0
Croplan Genetics	8221 VT3	10.0	24.3	41.4	50	30250	10.2
Greenwood	GW 3515 RR	9.0	15.4	59.2	53	30008	.
Greenwood	GW 3451 RR	8.8	20.8	42.8	53	29524	.
AgraTech	1021RR	8.7	23.2	37.6	36	29766	.
<i>Average</i>		<i>10.6</i>	<i>22.8</i>	<i>49.0</i>	<i>49</i>	<i>29894</i>	<i>10.8</i>
<i>Overall test averages and statistics:</i>							
<i>Average</i>		10.6 ¹	22.5 ²	49.1	49	29935	10.8
<i>LSD at 10% Level</i>		1.3	2.9	6.6	3	N.S. ³	N.S.
<i>Std. Err. of Entry Mean</i>		0.6	1.2	2.8	1	529	0.3

1. CV = 10.5%, and df for EMS = 57.

2. CV = 11.0%, and df for EMS = 57.

3. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore an LSD value was not calculated.

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

Planted: April 29, 2010.

Harvested: September 7, 2010.

Seeding Rate: 31,000 seeds/acre in 30" rows.

Soil Type: Suches loam.

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

Fertilization: 96 lb N, 56 lb P₂O₅, and 73 lb K₂O/acre as preplant; 90 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Moldboard plowed, disked and rototilled; Eradicane, Accent, Callisto and two cultivations used for weed control.

Test conducted by J. Gassett, G. Ware and H. Garrett.

Insect Screening Results

Resistance to Multiple Ear-Feeding Insects in 59 Commercial Corn Hybrids – 2010

Xinzhi Ni, G. David Buntin, and Jeffrey P. Wilson

Twelve of the 59 hybrids examined in 2010 (as indicated in the following table) have been developed utilizing YieldGard VecTran Triple technology (abbreviated as VT3 or VT3P). The hybrids with VT3 only contain the YieldGard-corn borer gene, while the hybrids with VT3PRO contain a stack of YGCB and the new Cry2A gene. In addition, 22 hybrids have transgenic weed-control (RR=Roundup ready), and 6 have a glyphosate tolerance (GT) gene as shown in the table.

Five ear- and/or kernel-feeding insects and their damage were recorded in 2010. In order of infestation severity, they are: sap beetles, corn earworm and fall armyworm, the brown stink bug, and pink scavenger caterpillar. Multiple species of sap beetles and stink bugs were also recorded in 2010. In addition, maize weevil infestation was very low on these entries at harvest with 18% kernel moisture in 2010. Disease surveys around flowering time showed minimal smut, southern rust, and southern and northern blight infections. Very few ears with ear rot were recorded this year.

The combined insect damage rating shown in the table reflected cob damage by the corn earworm and the fall armyworm, as well as kernel damage by the sap beetles, the stink bugs, and the pink scavenger caterpillar. Multiple insect resistance was categorized in five groups according to the insect damage ratings on corn cobs and kernels; they are very good (VG), good (G), fair (F), poor (P), and very poor (VP). VG represents the lowest amount of insect damage, while VP represents the greatest amount of insect damage. 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. Corn earworm and fall armyworm damage was combined because the damage was difficult to separate, as was damage by sap beetles and pink scavenger caterpillars. Corn earworm and fall armyworm feeding penetration in corn ears on the 59 hybrids was between 0.1 and 3.2 cm, which was lower than what we observed in 2009 (0.7-3.5 cm). Stink bug damage in 2010 (0.05-2.9% discolored kernels) was lower than that in 2009 (0.5-5.6%) and 2008 (0.3-4.6%), but higher than that in 2007 (0.02-2%), and 2006 (0-1.5%). Sap beetle damage ranged from 0.2-2.8% in 2010. Very low maize weevil infestation at harvest with 18% kernel moisture this year confirmed that timely harvest at maturity could be an effective management tool to reduce maize weevil infestation. The most important insects were the corn earworm and the fall armyworm, which caused the greatest kernel loss among all ear-feeding insects examined. Combined rankings of the 59 hybrids for their resistance to the major ear-feeding insects are given in the following table. 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.

Husk tightness and husk extension of ears were also examined in 2010. Husk tightness was assigned using a scale of 1 to 5, in which 1 = very loose and 5 = very tight. Because the average rating for husk tightness was between 2.5 and 4.4, only loose (L), medium (M), and tight (T) ratings are given in the table. Husk extension was between 0 and 8.1 cm. Corn earworm damage was negatively correlated to husk tightness and husk extension in 2010. Some of the transgenic corn hybrids showed poor overall insect resistance ratings with multiple insect damage ratings (such as corn earworm, stink bugs, and sap beetles), which could be caused by the fact that transgenic events in these hybrids only confer resistance to one species but not to all species of the ear-feeding insects.

Hybrids resistant to ear-feeding insects are highly recommended for planting and are presently the most economical means, especially in late plantings, for the reduction of ear-feeding insect damage and for reduction of aflatoxin contamination. Consult with your county agent and/or Extension entomologists for additional control recommendations for a specific pest in your area.

All entries were planted at the UGA Lang-Rigdon Farm on April 7, 2010 and harvested on July 29, 2010 at kernel moisture of 18%. Plots were thinned to 20,000 plants per acre. Plots were maintained and data were collected by Penny Tapp (USDA-ARS, Tifton, GA), and Blake Edore, Kimberly Goodman, Breanna Coursey, and Jonathan Roberts (University of Georgia, Tifton, GA).

Tifton, Georgia:
Evaluation of Ear-Feeding Insect Resistance
in 59 Commercial Corn Hybrids, 2010

Company or Brand Name	Hybrid Name ¹	Weed Control ²	Maturity ³	Days to Antheses	Husk Extension cm	Husk Tightness ⁴	Overall Resistance to Insect Damage ⁵	
							2010	2 or more years
Dyna-Gro	58V69	0	M	61	4.0	M	VG	VG
NK	N78N 3000GT	GT	S	58	5.9	M	VG	G+
Greenwood	GW 3451 RR	RR	M	62	3.2	M	VG	.
Mycogen	TMF 2H918RR	RR	M	62	5.3	M	VG	.
Mycogen	TMF2L831	0	M	61	6.1	T	VG	.
DEKALB	DKC68-05 (GENVT3P)	0	M	57	2.2	M	VG	.
Pioneer	P2023HR	RR	M	62	3.9	M	VG	.
Pioneer	P1456HR	RR	S	59	2.5	M	VG	.
Dyna-Gro	58VP99	0	M	57	5.9	M	VG	.
Terral-REV™	25R29™	RR	S	58	4.2	L	VG	.
Terral-REV™	28HR30™	RR	M	63	0.7	L	VG	.
Terral-REV™	28R10™	RR	M	62	3.4	L	VG	.
Dyna-Gro	V5683VT3	RR	M	62	5.9	T	VG	.
Croplan Genetics	8505 VT3 PRO	0	M	59	6.8	M	VG	.
Agratech	X925RR	RR	M	57	5.6	T	VG	.
Masters Choice	MC-630	0	S	61	4.4	M	VG	.
Croplan Genetics	9009 RH	0	M	63	4.1	M	VG	.
Agratech	1777	0	S	61	1.5	M	G	G+
DEKALB	DKC69-71 (RR2/YGCB)	RR	M	62	0.8	M	G	G
Croplan Genetics	8756 VT3	RR	M	64	0.9	M	G	G
NK	N77P 3000GT	GT	S	61	3.6	M	G	G
Croplan Genetics	7131 VT3	RR	S	60	7.7	M	G	G
Pioneer	31D58	0	M	62	3.7	M	G	F
Terral-REV™	26R60™	RR	M	59	8.1	L	G	F
Terral-REV™	28HR20™	RR	M	62	3.2	L	G	F
DEKALB	DKC67-21 (GENVT3P)	0	M	59	1.5	M	G	.
DEKALB	DKC66-96 (GENVT3P)	0	M	59	5.6	M	G	.
Golden Acres	28V81	0	M	59	6.9	M	G	.
Terral-REV™	25R19 TM	RR	S	61	3.3	M	G	.
Agratech	EXP 1709 GT	GT	M	61	1.2	L	G	.
Dyna-Gro	57GT60	GT	M	59	3.5	M	G	.
Dyna-Gro	D55Q80	0	S	60	1.2	M	G	.
DEKALB	DKC63-84 (VT3)	RR	S	58	0.7	M	F	P
Terral-REV™	25HR39™	RR	S	61	1.5	M	F	P
Dyna-Gro	57N73	0	S	62	1.4	M	F	G-
Dyna-Gro	V5373VT3	0	S	60	4.1	M	F	G
NK	N82V 3000GT	GT	M	59	3.6	M	F	G
Terral-REV™	26HR70™	RR	M	60	3.9	M	F	G
Agratech	825RR	RR	M	60	7.7	M	F	G
Terral-REV™	28R30™	RR	M	62	0.7	L	F	F-

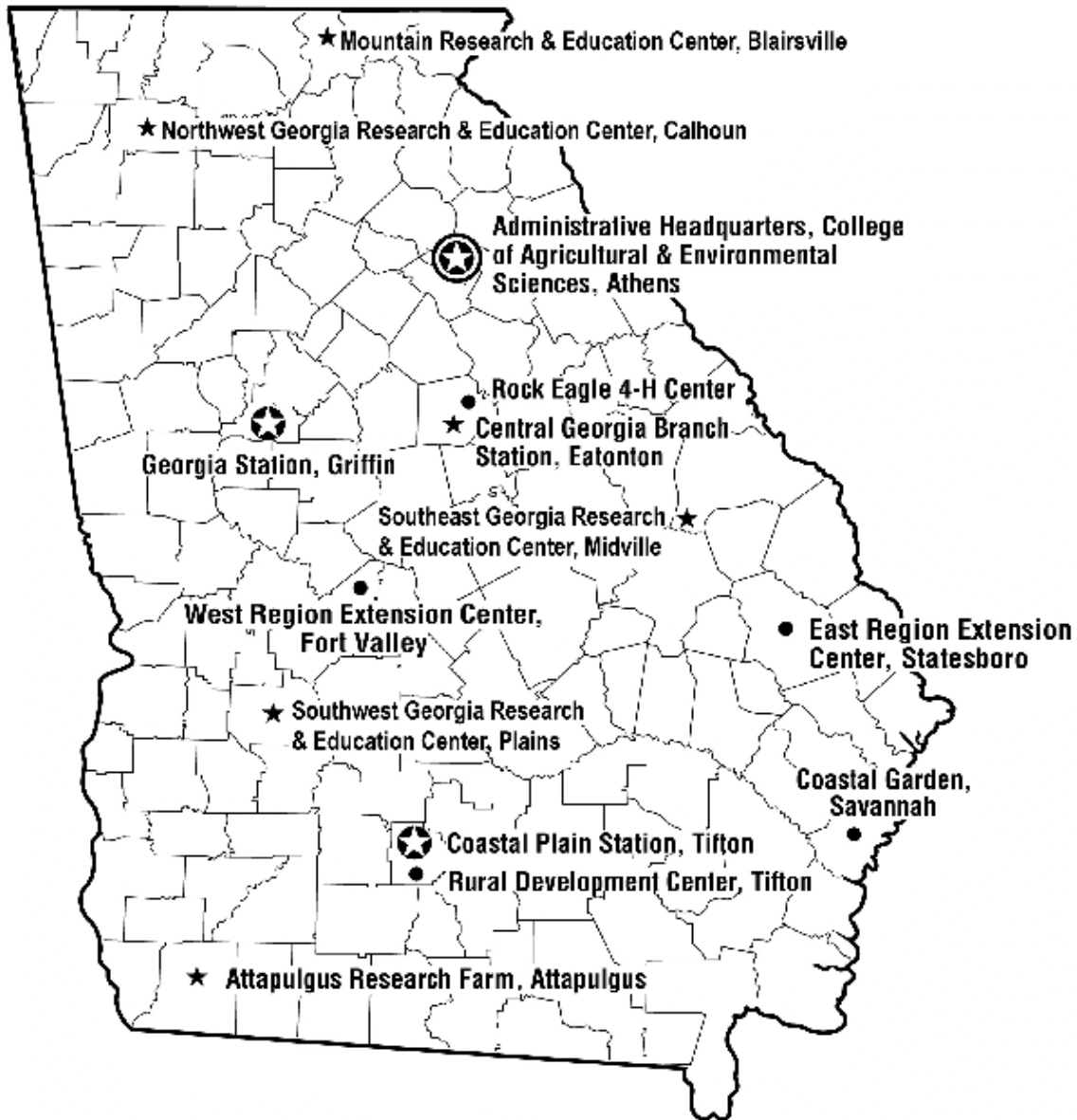
**Tifton, Georgia:
Evaluation of Ear-Feeding Insect Resistance
in 59 Commercial Corn Hybrids, 2010 (Continued)**

Company or Brand Name	Hybrid Name ¹	Weed Control ²	Maturity ³	Days to Antheses	Husk Extension	Husk Tightness ⁴	Overall Resistance to Insect Damage ⁵	
							2010	2 or more years
Croplan Genetics	851 VT3 PRO	0	M	63	0.0	M	F	F
Terral-REV™	26HR50™	RR	M	59	1.3	L	F	F
Terral-REV™	25HR49™	RR	S	59	1.5	L	F	F
DEKALB	DKC64-69 (GENVT3P)	0	S	59	0.6	M	F	.
Pioneer	31P42 (HX1,LL,RR2)	0	M	62	3.1	M	F	.
Golden Acres	27V01	0	M	63	1.8	M	F	.
Terral-REV™	28HR29™	RR	M	63	0.9	L	F	.
Dyna-Gro	57V59	0	S	58	1.8	M	F	.
Croplan Genetics	6725 VT3 PRO	0	S	60	3.2	M	F	.
Agratech	815CBLL	0	M	59	3.7	M	F	.
NK	N78B GT	GT	S	59	4.8	M	F	.
NK	N78S CB/LL	0	M	59	3.0	M	F	.
Greenwood	GW 3515 RR	RR	M	62	1.0	T	F	.
Pioneer	P1615HR	RR	M	62	1.1	M	P	F-
DEKALB	DKC62-54 (VT3)	RR	S	57	6.1	M	P	F
DEKALB	DKC62-97 (GENVT3P)	0	S	57	2.3	M	P	.
Dyna-Gro	D56VP24	0	M	62	0.5	M	P	.
Greenwood	GW 3280 RR	RR	M	63	3.1	M	VP	P
Masters Choice	MC-590	0	M	62	0.7	M	VP	P

1. The bolded entries have shown good insect resistance at Tifton, GA for two or more years.
2. For weed control technology, RR = Roundup Ready, GT = glyphosate tolerance, 0 = no herbicide resistance.
3. Maturity of the hybrids were categorized as short (S) or medium (M) season maturity. Please note the Days of Anthesis (or flowering) data at Tifton, GA did not always support the categorization though.
4. L = loose husks, M = medium-tight husks, T = tight husks.
5. Categorization of insect resistance to key ear-feeding insects (i.e., the corn earworm and the fall armyworm, the stink bugs, and the pink scavenger caterpillars) was based on cluster analysis. The data were collected from 20 ears (five ears per replication with four replications) per hybrid, where VG = very good, G = good, F = fair, P = poor, and VP = very poor. The + and - signs for the average rating represent the inconsistency among years.

Sources of Seed for the 2010 Corn Hybrid Tests

Company or Brand Name	Seed Source
AgraTech	Grabow Seed, 6830 Lisa Lane, Dunwoody, GA 30338
Croplan Genetics	Winfield Solutions, P.O. Box 614, Midland City, AL 36350
DeKalb	Monsanto Company, 800 N. Lindberg Blvd., St. Louis, MO 63167
DynaGro	Crop Production Services, 201 N. Bartow Street, Nashville, GA 31639
Golden Acres	Golden Acres Genetics, Ltd., P.O. Box 579, Buchanan Dam, TX 78609
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
NK	Syngenta NK Brand Seeds, 13760 Appomattox Circle, Laurinburg, NC 28352
Pioneer	Pioneer Hi-Bred International, Inc., 700 Boulevard South, Suite 302, Huntsville, AL 35802
Terral-REV™	Terral Seed, Inc., P.O. Box 826, Lake Providence, LA 71254



★ Main Experiment Station ★ Branch Station ● Extension Center

University of Georgia

Agricultural Experiment Stations
Athens, Georgia 30602
Robert Shulstad, Associate Dean

Publication

Penalty for Private Use \$300

ADDRESS CORRECTION REQUESTED

The University of Georgia and Ft. Valley State University, the U.S. Department of Agriculture and counties of the state cooperating. Cooperative Extension, the University of Georgia College of Agricultural and Environmental Sciences, offers educational programs, assistance and materials to all people without regard to race, color, national origin, age, gender or disability.

**An Equal Opportunity Employer/Affirmative Action Organization
Committed to a Diverse Work Force**