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Georgia

2018 Corn Performance Tests

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Editors



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

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PREFACE

This research report presents the results of the 2018 corn performance trials. Corn performance trials were conducted at six locations throughout Georgia (see map inside back cover) in 2018. Short-season and mid-season hybrids were planted at Tifton, Plains, and Midville in the Coastal Plain region, at Athens in the Piedmont region, at Calhoun in the Limestone Valley region, and at Blairsville in the Mountain region. Hybrids used for silage were evaluated at Tifton, Athens, Calhoun, and Blairsville.

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

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

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

This report is one of 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: 2017-2018 Small Grain Performance Tests (Annual Publication 100-10); the 2017 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication 103-9); and the 2017 Peanut, Cotton, and Tobacco Performance Tests (Annual Publication 104-9).

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

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2018 Corn Performance Tests

Edited by

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

The Season

In 2018, favorable weather conditions contributed to good yields at the testing sites. Hybrids with relative maturities (RM) of 116 or later are grouped in the tables as "Mid- and Full-Season," while 115 RM or less are designated "Short-Season." Calculated black layer dates for 116 RM hybrids are listed below. Since the black layer reflects physiological maturity, yields are not impacted by high temperatures or a lack of rainfall after this date. Warmer conditions within the range of 50-86 °F allow a corn hybrid to reach black layer faster. However, temperatures exceeding 86 °F result in lower potential yields. The impact of temperature on yields was most notable at Blairsville, Georgia, in the mountains.

2018 Grain Testing Environments Summary

Climate	Dryland			Irrigated				
	Tifton	Calhoun ¹	Blairsville	Tifton	Plains	Midville	Athens ²	Calhoun ¹
Planting date	Mar 29	Apr 12	May 3	Apr 2	Apr 3	Apr 5	Apr 2	Apr 12
Black layer date ³	Jul 29	Aug 13	Sep 9	Jul 30	Aug 4	Aug 4	Aug 10	Aug 13
Days to black layer ³	122	123	129	119	123	121	130	123
Days above 86°F ⁴	69	78	33	70	65	68	66	78
Harvest date	Aug 16	Sep 19	Oct 8	Aug 23	Aug 29	Sep 4	Sep 6	Sep 19
Rainfall (in.) ⁵	23.7	25.9	31.6	23.6	25.6	22.2	23.4	25.9
Irrigation (in.)	0	0	0	9.9	6.1	10.0	12.5	5.0
Total moisture (in.)	23.7	25.9	31.6	33.5	31.7	32.2	35.9	30.9
Avg. high temp. ⁴	84.5	85.8	83.3	84.9	84.4	85.5	84.1	85.8
Avg. low temp. ⁴	64.9	62.7	61.9	65.4	63.9	64.1	61.2	62.7
Production Practices								
Seeding rate per acre	27,000	25,100	36,200	37,000	37,000	37,000	36,200	36,200
Row spacing (in.)	36	30	30	36	36	36	30	30
Soil type	Tifton loamy sand	Etowah & Wax loams	Suches loam	Tifton loamy sand	Greenville sandy clay loam	Dothan sandy loam	Cecil gravelly sandy loam	Etowah & Wax loams
Previous crop	Peanut	Soybean	Soybean	Peanut	Soybean	Soybean	Rye	Soybean
Tillage	Conv.	Conv.	Conv.	Conv.	Conv.	Conv.	Strip	Conv.
Productivity								
Avg. yield (bu/ac)	190	244	298	250	265	278	242	269
Max. yield (bu/ac)	222	272	359	288	285	304	258	300
Total applied N (lbs/ac)	190	230	406	365	354	300	330	370
NUE ⁶ (Avg. yield)	1.00	0.94	1.36	1.46	1.34	1.08	1.36	1.38
NUE ⁶ (Max. yield)	0.86	0.85	1.13	1.27	1.24	0.99	1.28	1.23

1. Floyd County location.

2. Iron Horse Plant Science Farm, Watkinsville.

3. Calculated for a 116 RM Hybrid based on accumulating 2900 GDUs.

4. From planting to black layer date.

5. Rainfall total from 14 days prior to planting to black layer date.

6. Nitrogen use efficiency. Units of nitrogen applied per harvested bushel for test average and top yielding hybrid.

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Grain Tests Results

Statewide Summary: Corn Grain Performance, Georgia, 2018

Company or Brand Name	Variety	Yield			
		Coastal Plain Irrigated ¹	Statewide Irrigated ²	Statewide Dryland ³	Statewide Overall ⁴
		----- bu/acre -----			
Short-Season					
AgriGold	A6544VT2PRO	279	282	227	264
Local Seed	AV8614VYHR	283	283	220	262
Terral Seed	REV25BHR26	275	272	235	260
Terral Seed	REV24BHR99	271	274	230	259
Terral Seed	REV25BHR89	271	273	211	254
Terral Seed	REV23BHR55	266	267	224	253
Augusta	5065GT3111	264	261	223	248
Augusta	1165VT2PRO	265	265	210	247
Local Seed	AV8430VYHR	259	260	216	245
AgriGold	A642-59VT2PRO	242	242	207	230
Dyna-Gro	D54VC14	288	.	.	.
Croplan	6640 VT3P	275	.	.	.
AgriGold	A6711VT2PRO	271	274	.	.
Armor	1447 Pro 2	270	.	.	.
AgraTech	68VT2P	268	.	.	.
MorCorn	MC 4457	265	.	.	.
MorCorn	MC 4319	258	.	.	.
Phoenix	6507A3	256	.	.	.
NK Brand	NK 1573-3010	253	.	.	.
Average		267	265	220	252
LSD at 10% Level		13	13	NS	17
Std. Err. of Entry Mean		6	6	17	7
Mid- and Full-Season					
Terral Seed	REV28BHR18	288	289	236	272
DEKALB	DKC66-29 TRE	271	276	237	263
Terral Seed	REV27BHR79	271	276	230	261
AgriGold	A6659VT2PRO	277	269	236	258
Pioneer	P1870YHR	279	276	221	258
Local Seed	LC1776VT2P	278	278	213	256
Augusta	1226 VT2PRO	278	274	216	255
Pioneer	P1916YHR	277	277	210	255
DEKALB	DKC69-16 GENSS	269	271	215	252
Pioneer	P1662YHR	268	269	205	247
DEKALB	DKC67-99 TRE	255	257	224	246
Local Seed	LC1577VT2P	263	268	199	245
Local Seed	LC1878VT2P	260	259	216	245
DEKALB	DKC68-69 GENVT2P	257	254	220	243
Augusta	1367 3220GT	255	257	203	239

**Statewide Summary:
Corn Grain Performance, Georgia, 2018
(Continued)**

Company or Brand Name	Variety	Yield			
		Coastal Plain Irrigated ¹	Statewide Irrigated ²	Statewide Dryland ³	Statewide Overall ⁴
		----- bu/acre -----			
Mid- and Full-Season (continued)					
Local Seed	LC1987VT2P	256	253	202	236
AgriGold	A6499STX	252	251	191	231
AgriGold	A647-90VT2PRO	243	244	193	227
AgraTech	85VT2P	287	.	.	.
MorCorn	MC 4725	281	.	.	.
Dyna-Gro	D58VC65	280	.	.	.
Dyna-Gro	D58VC37	276	.	.	.
Croplan	5678 VT2P	274	.	.	.
Dyna-Gro	D57VC51	271	.	.	.
AgraTech	88VT2P	270	.	.	.
Phoenix	7402A4	266	.	.	.
NK Brand	NK 1808-3111	263	.	.	.
Dyna-Gro	CX17117	262	.	.	.
Armor	1667 Pro 2	258	.	.	.
NK Brand	NK 1694-3111	252	.	.	.
Armor	1887 Pro 2	246	.	.	.
Average		267	265	215	249
LSD at 10% Level		12	12	NS	18
Std. Err. of Entry Mean		5	5	14	8

1. Includes Tifton, Plains, and Midville.

2. Includes Coastal Plain sites plus Calhoun; excludes Athens due to non-significant results.

3. Includes Tifton and Calhoun non-irrigated tests; excludes Blairsville due to low similarity in 2018 to other sites.

4. Includes all tests except Athens and Blairsville (six of eight total).

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Coastal Plain Region

Coastal Plain Summary: Corn Grain Performance, 2018

Company or Brand Name	Variety	Yield					Irrigated Average
		Coastal Plain Average	Tifton Dryland	Tifton Irrigated	Midville Irrigated	Plains Irrigated	
		----- bu/acre -----					
Short-Season							
Dyna-Gro	D54VC14	261	181	278	304	282	288
Local Seed	AV8614VYHR	260	192	274	294	280	283
AgriGold	A6544VT2PRO	260	204	275	299	264	279
Croplan	6640 VT3P	251	180	276	279	270	275
Terral Seed	REV25BHR26	258	210	255	291	279	275
AgriGold	A6711VT2PRO	249	184	255	283	275	271
Terral Seed	REV24BHR99	254	202	264	279	270	271
Terral Seed	REV25BHR89	246	174	260	292	260	271
Armor	1447 Pro 2	251	193	250	283	276	270
AgraTech	68VT2P	254	211	266	277	261	268
Terral Seed	REV23BHR55	249	200	250	279	269	266
MorCorn	MC 4457	247	192	260	278	257	265
Augusta	1165VT2PRO	244	183	245	269	280	265
Augusta	5065GT3111	251	214	246	282	263	264
Local Seed	AV8430VYHR	241	189	241	274	262	259
MorCorn	MC 4319	240	187	255	265	254	258
Phoenix	6507A3	247	218	259	271	238	256
NK Brand	NK 1573-3010	230	161	254	256	248	253
AgriGold	A642-59VT2PRO	224	169	241	259	227	242
Average		248	192	257	280	264	267
LSD at 10% Level		NS	NS	19	14	22	13
Std. Err. of Entry Mean		10	14	8	6	9	6
Mid- and Full-Season							
Terral Seed	REV28BHR18	266	201	286	301	276	288
AgraTech	85VT2P	269	214	288	290	284	287
MorCorn	MC 4725	257	187	272	297	273	281
Dyna-Gro	D58VC65	262	211	274	287	277	280
Pioneer	P1870YHR	257	190	265	297	275	279
Augusta	1226 VT2PRO	256	189	265	298	271	278
Local Seed	LC1776VT2P	250	168	275	294	264	278
AgriGold	A6659VT2PRO	263	222	278	269	284	277
Pioneer	P1916YHR	254	186	261	288	281	277
Dyna-Gro	D58VC37	251	177	260	300	267	276
Croplan	5678 VT2P	256	200	259	287	277	274
Terral Seed	REV27BHR79	256	209	267	288	259	271
Dyna-Gro	D57VC51	248	177	271	258	285	271
DEKALB	DKC66-29 TRE	253	201	276	278	257	271
AgraTech	88VT2P	251	195	253	282	276	270

**Coastal Plain Summary:
Corn Grain Performance, 2018
(Continued)**

Company or Brand Name	Variety	Yield					
		Coastal Plain Average	Tifton Non-Irr.	Tifton Irrigated	Midville Irrigated	Plains Irrigated	Irrigated Average
		----- bu/acre -----					
Mid- and Full-Season (continued)							
DEKALB	DKC69-16 GENSS	248	183	253	273	282	269
Pioneer	P1662YHR	244	174	261	274	269	268
Phoenix	7402A4	246	187	255	264	281	266
NK Brand	NK 1808-3111	242	180	243	267	280	263
Local Seed	LC1577VT2P	240	168	261	265	264	263
Dyna-Gro	CX17117	245	194	246	280	260	262
Local Seed	LC1878VT2P	245	201	244	273	263	260
Armor	1667 Pro 2	243	195	251	264	261	258
DEKALB	DKC68-69 GENVT2P	242	197	255	273	242	257
Local Seed	LC1987VT2P	237	180	255	266	248	256
DEKALB	DKC67-99 TRE	242	200	240	271	256	255
Augusta	1367 3220GT	236	178	249	249	267	255
AgriGold	A6499STX	228	155	251	261	246	252
NK Brand	NK 1694-3111	237	193	259	261	235	252
Armor	1887 Pro 2	224	159	247	254	238	246
AgriGold	A647-90VT2PRO	224	167	227	264	239	243
Average		247	188	259	276	266	267
LSD at 10% Level		NS	28	17	15	18	12
Std. Err. of Entry Mean		10	12	7	6	8	5

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Tifton, Georgia: Corn Grain Performance, 2018, Dryland

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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----			no.	lb	rating	%	no.	%
Short-Season										
Phoenix	6507A3	218	.	.	130	0.38	2.5	18.9	25413	0
Augusta	5065GT3111	214	.	.	99	0.45	1.5	18.0	23811	0
AgraTech	68VT2P	211	.	.	106	0.44	2.5	17.1	25306	1
Terral Seed	REV25BHR26	210	214	188	101	0.45	2.5	17.5	26160	1
AgriGold	A6544VT2PRO	204	.	.	101	0.45	2.0	16.7	24879	0
Terral Seed	REV24BHR99	202	.	.	107	0.42	1.5	18.0	25199	0
Terral Seed	REV23BHR55	200	210	189	101	0.45	2.5	18.7	24772	0
Armor	1447 Pro 2	193	.	.	101	0.42	2.0	16.9	24986	0
Local Seed	AV8614VYHR	192	.	.	102	0.43	1.5	18.7	24772	0
MorCorn	MC 4457	192	.	.	99	0.45	2.0	16.4	24238	0
Local Seed	AV8430VYHR	189	.	.	100	0.42	2.5	17.6	25306	0
MorCorn	MC 4319	187	191	.	100	0.44	1.5	17.4	24238	0
AgriGold	A6711VT2PRO	184	193	.	106	0.39	2.5	18.8	24879	0
Augusta	1165VT2PRO	183	194	.	100	0.41	2.0	18.6	25306	0
Dyna-Gro	D54VC14	181	.	.	105	0.39	2.5	17.5	24665	0
Croplan	6640 VT3P	180	193	185	103	0.39	2.0	18.0	25199	1
Terral Seed	REV25BHR89	174	.	.	101	0.38	2.5	18.4	24132	1
AgriGold	A642-59VT2PRO	169	.	.	101	0.39	1.5	17.5	25199	0
NK Brand	NK 1573-3010	161	.	.	103	0.36	2.5	18.7	25092	0
Average		192 ⁴	199	187	103	0.42	2.1	17.9	24924	0
LSD at 10% Level		NS	NS	NS	7	NS	NS	0.7	NS	-
Std. Err. of Entry Mean		14	8	6	3	0.03	0.3	0.3	522	0
Mid- and Full-Season										
AgriGold	A6659VT2PRO	222	223	.	103	0.49	2.0	17.6	24452	0
AgraTech	85VT2P	214	211	.	100	0.47	2.5	18.0	25413	0
Dyna-Gro	D58VC65	211	213	.	102	0.48	2.0	17.8	24345	0
Terral Seed	REV27BHR79	209	.	.	102	0.51	1.5	18.3	24879	0
DEKALB	DKC66-29 TRE	201	.	.	99	0.46	2.5	17.6	24986	0
Local Seed	LC1878VT2P	201	.	.	105	0.44	1.5	18.2	24665	0
Terral Seed	REV28BHR18	201	210	.	102	0.45	2.5	19.0	24452	0
DEKALB	DKC67-99 TRE	200	.	.	101	0.46	2.0	17.8	24025	0
Croplan	5678 VT2P	200	201	194	101	0.45	1.5	17.5	25199	0
DEKALB	DKC68-69	197	.	.	99	0.44	2.5	19.4	25413	0
Armor	1667 Pro 2	195	.	.	111	0.38	2.0	18.7	26587	0
AgraTech	88VT2P	195	.	.	110	0.38	2.0	18.9	25946	0
Dyna-Gro	CX17117	194	.	.	103	0.41	1.5	18.8	26160	0
NK Brand	NK 1694-3111	193	.	.	104	0.43	2.5	18.1	24238	0
Pioneer	P1870YHR	190	203	.	102	0.42	2.0	19.0	24986	0
Augusta	1226 VT2PRO	189	.	.	102	0.43	1.5	18.1	25840	0
MorCorn	MC 4725	187	199	.	101	0.42	2.0	18.6	24879	0
Phoenix	7402A4	187	.	.	102	0.40	2.0	19.1	25733	0
Pioneer	P1916YHR	186	200	189	100	0.41	1.5	19.7	25199	1
DEKALB	DKC69-16 GENSS	183	.	.	108	0.40	2.0	17.5	23918	1

**Tifton, Georgia:
Corn Grain Performance, 2018, Dryland
(Continued)**

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.	Lodging %	
		2018	2-Yr Avg bu/acre							3-Yr Avg bu/acre
Mid- and Full-Season (continued)										
Local Seed	LC1987VT2P	180	.	.	100	0.41	3.5	18.5	24986	0
NK Brand	NK 1808-3111	180	.	.	103	0.39	2.5	19.4	25092	0
Augusta	1367 3220GT	178	.	.	101	0.41	2.5	19.0	24559	0
Dyna-Gro	D57VC51	177	193	188	102	0.41	1.5	17.7	24131	1
Dyna-Gro	D58VC37	177	177	170	101	0.41	1.5	18.5	23811	0
Pioneer	P1662YHR	174	188	.	102	0.39	2.0	19.1	24452	1
Local Seed	LC1776VT2P	168	.	.	101	0.42	2.0	18.4	24559	0
Local Seed	LC1577VT2P	168	.	.	107	0.36	3.5	18.1	24558	1
AgriGold	A647-90VT2PRO	167	.	.	102	0.38	2.5	18.7	24452	0
Armor	1887 Pro 2	159	.	.	101	0.35	3.5	18.9	24986	0
AgriGold	A6499STX	155	170	.	102	0.39	2.5	18.1	24238	0
Average		188 ⁵	199	185	102	0.42	2.2	18.4	24875	0
LSD at 10% Level		28	19	15	5	0.06	NS	0.7	1266	-
Std. Err. of Entry Mean		12	8	6	2	0.02	0.3	0.3	539	0

1. Yields calculated as 56 pounds per bushel 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 = 54.

5. CV = 12.6%, and df for EMS = 90.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: March 29, 2018.

Harvested: August 16, 2018.

Seeding Rate: 27,000 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.9.

Fertilization: 50 lb N, 70 lb P₂O₅, and 70 lb K₂O/acre as preplant; 140 lb N/acre as sidedress.

Previous Crop: Peanuts.

Management: Conventional tillage; Atrazine, Zidua, and Warrant used for weed control; Telone II used for nematode control.

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

Tifton, Georgia: Corn Grain Performance, 2018, 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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----			no.	lb	rating	%	no.	%
Short-Season										
Dyna-Gro	D54VC14	278	.	.	99	0.44	2.0	17.1	35236	0
Croplan	6640 VT3P	276	267	284	100	0.43	2.5	17.7	36197	0
AgriGold	A6544VT2PRO	275	.	.	100	0.41	2.0	17.6	36944	0
Local Seed	AV8614VYHR	274	.	.	99	0.42	2.0	18.7	36411	0
AgraTech	68VT2P	266	.	.	100	0.41	1.5	17.7	36945	0
Terral Seed	REV24BHR99	264	.	.	101	0.40	1.5	16.9	36517	2
MorCorn	MC 4457	260	.	.	96	0.47	2.5	17.2	34809	0
Terral Seed	REV25BHR89	260	.	.	99	0.43	2.5	18.6	34702	1
Phoenix	6507A3	259	.	.	100	0.40	2.0	17.7	36411	1
MorCorn	MC 4319	255	257	.	100	0.44	1.5	17.7	35983	0
AgriGold	A6711VT2PRO	255	269	.	100	0.41	2.0	18.8	35770	0
Terral Seed	REV25BHR26	255	270	280	101	0.42	3.0	17.8	35877	0
NK Brand	NK 1573-3010	254	.	.	100	0.39	2.5	18.5	36944	0
Armor	1447 Pro 2	250	.	.	99	0.44	2.5	17.2	36090	0
Terral Seed	REV23BHR55	250	274	287	100	0.42	3.0	18.0	35236	0
Augusta	5065GT3111	246	.	.	99	0.40	1.5	18.9	34702	1
Augusta	1165VT2PRO	245	251	.	100	0.38	2.5	18.8	35983	0
Local Seed	LCX20581	243	.	.	99	0.38	2.0	18.4	35770	0
AgriGold	A642-59VT2PRO	241	.	.	100	0.38	3.5	17.2	35663	0
Local Seed	AV8430VYHR	241	.	.	99	0.38	3.0	17.9	35449	1
Average		257 ⁴	265	284	100	0.41	2.3	17.9	35882	0
LSD at 10% Level		19	NS	NS	2	0.04	0.9	0.7	1199	-
Std. Err. of Entry Mean		8	7	6	1	0.01	0.3	0.3	507	0
Mid- and Full-Season										
AgraTech	85VT2P	288	278	.	100	0.44	1.5	18.4	36411	1
Terral Seed	REV28BHR18	286	287	.	100	0.46	2.0	18.3	35663	0
AgriGold	A6659VT2PRO	278	274	.	100	0.44	1.5	18.2	35983	0
DEKALB	DKC66-29 TRE	276	.	.	101	0.43	1.5	17.4	35877	0
Local Seed	LC1776VT2P	275	.	.	99	0.45	2.0	18.0	34915	0
Dyna-Gro	D58VC65	274	263	.	99	0.43	2.0	17.3	36624	0
MorCorn	MC 4725	272	282	.	101	0.44	2.0	18.5	34382	0
Dyna-Gro	D57VC51	271	276	293	100	0.42	2.0	18.1	36197	0
Local Seed	LCX20544	269	.	.	100	0.41	1.5	19.1	36945	0
Terral Seed	REV27BHR79	267	.	.	100	0.42	1.5	18.9	35876	0
Augusta	1226 VT2PRO	265	.	.	100	0.41	1.5	18.6	36197	0
Pioneer	P1870YHR	265	269	.	100	0.43	1.5	18.3	35129	1
Pioneer	P1916YHR	261	251	259	99	0.42	2.5	19.2	35449	0
Local Seed	LC1577VT2P	261	.	.	100	0.41	2.5	17.8	35663	0
Pioneer	P1662YHR	261	259	.	99	0.40	2.5	18.1	37158	0
Local Seed	LCX19483	260	.	.	99	0.41	2.5	18.3	36838	0
Dyna-Gro	D58VC37	260	272	280	100	0.42	2.0	18.5	34915	0
Croplan	5678 VT2P	259	263	274	100	0.40	2.0	17.2	36624	0
NK Brand	NK 1694-3111	259	.	.	100	0.41	2.5	18.1	35343	0
Armor	X8117 Pro 2	256	.	.	99	0.42	2.0	18.2	36090	0

**Tifton, Georgia:
Corn Grain Performance, 2018, Irrigated
(Continued)**

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.	Lodging %	
		2018	2-Yr Avg bu/acre							3-Yr Avg
Mid- and Full-Season (continued)										
DEKALB	DKC68-69	255	.	.	99	0.40	1.5	18.7	36624	0
Local Seed	LC1987VT2P	255	.	.	100	0.40	2.0	17.8	35770	0
Phoenix	7402A4	255	.	.	101	0.39	2.0	18.6	36197	0
DEKALB	DKC69-16 GENSS	253	.	.	100	0.41	1.5	17.4	34809	0
AgraTech	88VT2P	253	.	.	100	0.39	2.5	17.9	36517	0
AgriGold	A6499STX	251	246	.	100	0.39	2.0	18.7	35876	0
Armor	1667 Pro 2	251	.	.	98	0.42	1.5	17.5	36090	0
Augusta	1367 3220GT	249	.	.	99	0.43	2.5	19.1	34916	0
Local Seed	LCX20619.18	247	.	.	100	0.39	1.5	17.2	34916	0
Armor	1887 Pro 2	247	.	.	99	0.38	2.0	18.4	35983	0
Dyna-Gro	CX17117	246	.	.	100	0.37	1.5	17.4	37158	0
Local Seed	LC1878VT2P	244	.	.	101	0.38	1.5	17.5	35556	0
NK Brand	NK 1808-3111	243	.	.	99	0.38	2.5	18.3	36517	0
DEKALB	DKC67-99 TRE	240	.	.	100	0.40	2.5	17.8	35129	0
AgriGold	A647-90VT2PRO	227	.	.	99	0.36	2.0	18.3	36411	0
Average		259 ⁵	268	276	100	0.41	1.9	18.1	35907	0
LSD at 10% Level		17	12	12	NS	0.03	NS	0.6	1101	-
Std. Err. of Entry Mean		7	5	5	1	0.01	0.3	0.3	469	0

1. Yields calculated as 56 pounds per bushel at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 6.1%, and df for EMS = 57.

5. CV = 5.7%, and df for EMS = 102.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: April 2, 2018.

Harvested: August 23, 2018.

Seeding Rate: 37,000 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Medium, K = Medium, and pH = 6.7.

Fertilization: 125 lb N, 210 lb P₂O₅, and 300 lb K₂O/acre as preplant; 240 lb N/acre as sidedress.

Previous Crop: Peanuts.

Management: Conventional tillage; Atrazine, Basagran, Zidua, and Warrant used for weed control; Telone II used for nematode control; irrigated 9.9 inches.

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

Plains, Georgia: Corn Grain Performance, 2018, 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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----								
Short-Season										
Dyna-Gro	D54VC14	282	.	.	100	0.44	2.0	14.7	35556	1
Local Seed	AV8614VYHR	280	.	.	100	0.45	2.5	15.9	35236	13
Augusta	1165VT2PRO	280	261	.	99	0.45	2.0	16.2	35770	5
Terral Seed	REV25BHR26	279	274	260	99	0.44	2.0	15.2	35877	2
Armor	1447 Pro 2	276	.	.	98	0.44	2.5	14.6	34915	8
AgriGold	A6711VT2PRO	275	245	.	99	0.44	2.0	16.2	35343	5
Croplan	6640 VT3P	270	249	239	98	0.43	2.5	14.7	35877	0
Terral Seed	REV24BHR99	270	.	.	100	0.42	1.5	15.4	36411	1
Terral Seed	REV23BHR55	269	271	256	101	0.43	2.5	15.0	35129	21
AgriGold	A6544VT2PRO	264	.	.	100	0.41	2.5	14.3	35877	12
Augusta	5065GT3111	263	.	.	99	0.42	1.5	16.2	34809	40
Local Seed	AV8430VYHR	262	.	.	100	0.40	2.5	14.8	36731	10
AgraTech	68VT2P	261	.	.	100	0.40	2.0	15.0	36731	6
Terral Seed	REV25BHR89	260	.	.	100	0.41	2.5	15.5	35663	9
MorCorn	MC 4457	257	1.0	14.3	35449	2
MorCorn	MC 4319	254	248	.	100	0.41	2.0	16.2	35129	7
NK Brand	NK 1573-3010	248	.	.	100	0.38	2.0	15.1	36304	54
Phoenix	6507A3	238	.	.	100	0.37	2.0	14.9	35449	62
AgriGold	A642-59VT2PRO	227	.	.	99	0.35	3.0	14.4	35983	5
Average		264 ⁴	258	252	99	0.42	2.1	15.2	35697	14
LSD at 10% Level		22	13	11	NS	0.04	NS	0.5	NS	-
Std. Err. of Entry Mean		9	5	5	1	0.01	0.2	0.2	555	7
Mid- and Full-Season										
Dyna-Gro	D57VC51	285	267	265	101	0.45	1.5	16.2	35343	2
AgraTech	85VT2P	284	272	.	100	0.44	1.5	15.4	36411	1
AgriGold	A6659VT2PRO	284	269	.	101	0.44	1.5	15.9	35877	3
DEKALB	DKC69-16 GENSS	282	.	.	99	0.47	1.5	15.7	35129	0
Pioneer	P1916YHR	281	256	254	100	0.45	1.5	16.9	35129	7
Phoenix	7402A4	281	.	.	100	0.46	1.5	16.7	34809	23
NK Brand	NK 1808-3111	280	.	.	101	0.43	2.0	16.5	36624	25
Dyna-Gro	D58VC65	277	257	.	100	0.41	1.5	15.2	36945	10
Croplan	5678 VT2P	277	255	258	99	0.43	1.5	15.2	36517	8
Terral Seed	REV28BHR18	276	266	.	100	0.43	1.5	16.2	35983	14
AgraTech	88VT2P	276	.	.	99	0.43	1.5	15.9	36304	2
Pioneer	P1870YHR	275	251	.	99	0.44	1.5	16.2	35770	11
MorCorn	MC 4725	273	255	.	101	0.44	1.5	16.1	34702	1
Augusta	1226 VT2PRO	271	.	.	100	0.41	2.5	16.0	36838	15
Pioneer	P1662YHR	269	257	.	100	0.42	2.5	15.7	35663	14
Augusta	1367 3220GT	267	.	.	99	0.43	2.5	16.9	35342	33
Dyna-Gro	D58VC37	267	249	247	101	0.43	2.5	15.8	34915	5
Local Seed	LC1577VT2P	264	.	.	100	0.41	2.0	14.9	35770	3
Local Seed	LC1776VT2P	264	.	.	100	0.41	1.5	15.7	35983	3
Local Seed	LC1878VT2P	263	.	.	100	0.43	1.5	15.2	35449	3

**Plains, Georgia:
Corn Grain Performance, 2018, Irrigated
(Continued)**

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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
Mid- and Full-Season (continued)										
Armor	1667 Pro 2	261	.	.	100	0.42	1.5	15.7	34382	2
Dyna-Gro	CX17117	260	.	.	100	0.41	1.5	15.9	36090	1
Terral Seed	REV27BHR79	259	.	.	100	0.41	1.5	16.4	35877	49
DEKALB	DKC66-29 TRE	257	.	.	99	0.40	1.5	15.6	35770	18
DEKALB	DKC67-99 TRE	256	.	.	99	0.42	2.0	15.6	35449	3
Local Seed	LC1987VT2P	248	.	.	100	0.38	2.5	16.2	36197	0
AgriGold	A6499STX	246	241	.	100	0.39	2.5	15.6	35556	0
	DKC68-69	242	.	.	100	0.38	1.5	17.2	35770	14
DEKALB	GENVT2P									
AgriGold	A647-90VT2PRO	239	.	.	99	0.38	2.5	15.8	36197	0
Armor	1887 Pro 2	238	.	.	99	0.37	1.5	16.3	36517	1
NK Brand	NK 1694-3111	235	.	.	100	0.36	2.0	16.1	35449	31
Average		266 ⁵	258	256	100	0.42	1.8	16.0	35766	10
LSD at 10% Level		18	13	11	NS	0.03	NS	0.5	NS	-
Std. Err. of Entry Mean		8	6	5	1	0.01	0.3	0.2	549	6

1. Yields calculated as 56 pounds per bushel at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 6.9%, and df for EMS = 54.

5. CV = 5.9%, and df for EMS = 90.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: April 3, 2018.

Harvested: August 29, 2018.

Seeding Rate: 37,000 seeds per acre in 36-inch rows.

Soil Type: Greenville sandy clay loam.

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

Fertilization: 54 lb N, 140 lb P₂O₅, and 170 lb K₂O/acre as preplant; 300 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Atrazine and Warrant used for weed control; Bifenthrin used for insect control; Folicur used for disease control; irrigated 6.05 inches.

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

Midville, Georgia: Corn Grain Performance, 2018, 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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
Short-Season										
Dyna-Gro	D54VC14	304	.	.	99	0.50	2.0	13.7	35129	2
AgriGold	A6544VT2PRO	299	.	.	100	0.48	2.0	14.6	34809	0
Local Seed	AV8614VYHR	294	.	.	101	0.47	1.5	15.1	35343	0
Terral Seed	REV25BHR89	292	.	.	100	0.48	2.5	14.5	34382	3
Terral Seed	REV25BHR26	291	274	270	101	0.46	2.5	14.2	36197	2
AgriGold	A6711VT2PRO	283	272	.	103	0.44	1.5	14.4	35450	2
Armor	1447 Pro 2	283	.	.	98	0.46	1.5	14.0	35663	1
Augusta	5065GT3111	282	.	.	100	0.47	1.5	15.0	33421	3
Croplan	6640 VT3P	279	261	259	100	0.45	2.5	13.7	35236	0
Terral Seed	REV23BHR55	279	273	271	102	0.45	2.5	14.2	34915	2
Terral Seed	REV24BHR99	279	.	.	101	0.44	2.0	13.7	35236	1
MorCorn	MC 4457	278	.	.	100	0.46	2.0	14.2	34382	0
AgraTech	68VT2P	277	.	.	99	0.43	2.5	14.4	36197	0
Local Seed	AV8430VYHR	274	.	.	99	0.43	2.5	14.2	35983	1
Phoenix	6507A3	271	.	.	106	0.40	2.5	15.5	35770	22
Augusta	1165VT2PRO	269	261	.	102	0.44	2.0	14.3	34275	0
MorCorn	MC 4319	265	240	.	99	0.43	2.0	16.0	34702	2
AgriGold	A642-59VT2PRO	259	.	.	101	0.41	2.5	14.7	35343	4
NK Brand	NK 1573-3010	256	.	.	100	0.40	3.0	14.6	36197	9
Average		280 ⁴	263	266	100	0.45	2.2	14.5	35191	3
LSD at 10% Level		14	13	10	3	0.03	NS	1	1308	-
Std. Err. of Entry Mean		6	5	4	1	0.01	0.3	0.4	552	2
Mid- and Full-Season										
Terral Seed	REV28BHR18	301	287	.	100	0.50	1.0	14.8	34168	5
Dyna-Gro	D58VC37	300	275	274	104	0.46	2.5	15.3	35449	1
Augusta	1226 VT2PRO	298	.	.	100	0.46	2.0	14.1	36304	0
MorCorn	MC 4725	297	273	.	101	0.47	1.0	14.9	34809	0
Pioneer	P1870YHR	297	276	.	100	0.48	1.5	15.2	34915	0
Local Seed	LC1776VT2P	294	.	.	101	0.47	1.5	14.4	35236	1
AgraTech	85VT2P	290	264	.	101	0.45	1.0	14.0	35663	0
Terral Seed	REV27BHR79	288	.	.	100	0.46	1.5	14.7	35449	15
Pioneer	P1916YHR	288	264	254	100	0.48	1.5	15.4	34168	1
Dyna-Gro	D58VC65	287	273	.	100	0.46	1.5	14.2	34915	1
Croplan	5678 VT2P	287	275	266	100	0.46	1.5	13.9	35449	3
AgraTech	88VT2P	282	.	.	101	0.45	1.5	14.6	35129	1
Dyna-Gro	CX17117	280	.	.	100	0.45	1.5	14.1	34916	2
DEKALB	DKC66-29 TRE	278	.	.	100	0.45	1.5	14.4	35236	1
Pioneer	P1662YHR	274	252	.	102	0.45	2.0	14.8	34489	1
Local Seed	LC1878VT2P	273	.	.	102	0.43	1.5	14.4	35556	0
DEKALB	DKC69-16 GENSS	273	.	.	100	0.43	1.5	14.2	35236	1
DEKALB	DKC68-69 GENVT2P	273	.	.	100	0.44	1.5	16.0	35022	4
DEKALB	DKC67-99 TRE	271	.	.	100	0.42	2.0	14.4	35236	2
AgriGold	A6659VT2PRO	269	268	.	100	0.44	1.5	14.5	35129	1

**Midville, Georgia:
Corn Grain Performance, 2018, Irrigated
(Continued)**

Company or Brand Name	Hybrid Name	Yield ¹			Ears/ 100 Plants no.	Ear Grain Wt. lb	Grain Quality ² rating	Grain Moist. ³ %	Plant Pop. no.	Lodging %
		2018	2-Yr Avg bu/acre	3-Yr Avg						
Mid- and Full-Season (continued)										
NK Brand	NK 1808-3111	267	.	.	99	0.42	2.0	15.5	35876	6
Local Seed	LC1987VT2P	266	.	.	100	0.43	2.0	15.7	34488	0
Local Seed	LC1577VT2P	265	.	.	100	0.43	1.5	14.4	34809	1
Armor	1667 Pro 2	264	.	.	100	0.43	1.5	14.1	34275	1
AgriGold	A647-90VT2PRO	264	.	.	99	0.42	1.5	15.6	36304	0
Phoenix	7402A4	264	.	.	100	0.43	2.0	15.2	34915	4
AgriGold	A6499STX	261	240	.	99	0.43	2.5	14.5	34702	1
NK Brand	NK 1694-3111	261	.	.	99	0.42	2.5	15.4	35022	34
Dyna-Gro	D57VC51	258	255	258	101	0.41	1.5	14.3	34809	8
Armor	1887 Pro 2	254	.	.	99	0.41	2.5	15.6	35129	0
Augusta	1367 3220GT	249	.	.	101	0.41	3.5	15.3	33741	18
Average		276 ⁵	267	263	100	0.44	1.7	14.8	35050	4
LSD at 10% Level		15	13	12	2	0.03	0.9	0.6	NS	-
Std. Err. of Entry Mean		6	6	5	1	0.01	0.3	0.2	567	3

1. Yields calculated as 56 pounds per bushel at 15.5% moisture.

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

3. Grain moisture at harvest.

4. CV = 4.1%, and df for EMS = 54.

5. CV = 4.6%, and df for EMS = 90.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: April 5, 2018.

Harvested: September 4, 2018.

Seeding Rate: 37,000 seeds per acre in 36-inch rows.

Soil Type: Dothan sandy loam.

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

Fertilization: 164 lb N, 163 lb P₂O₅, and 220 lb K₂O/acre as preplant; 136 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Atrazine and Warrant used for weed control; Telone II used for nematode control; irrigated 10 inches.

Test conducted by R. Brooke, K. Cawley, M. Cofield, D. Dunn, J. Lanier, R. Milton, and T. Woodward.

Piedmont Region

Athens, Georgia: Corn Grain Performance, 2018, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/ 100 Plants	Ear Grain Wt. lb	Grain Quality ³ rating	Grain Moist. ⁴ %	Plant Pop. no.	Lodging %	
		2018	2-Yr Avg bu/acre							3-Yr Avg ²
Short-Season										
AgriGold	A642-59VT2PRO	258	.	.	101	0.43	2.1	14.2	33135	1
Terral Seed	REV25BHR26	255	242	241	101	0.41	2.0	14.3	34238	3
Local Seed	AV8614VYHR	251	.	.	102	0.41	2.3	15.3	33753	3
Terral Seed	REV23BHR55	244	243	237	101	0.39	2.0	14.2	34872	4
Terral Seed	REV25BHR89	244	.	.	101	0.42	2.3	14.8	32670	1
Terral Seed	REV24BHR99	239	.	.	103	0.39	2.4	14.6	33715	1
Local Seed	AV8430VYHR	235	.	.	102	0.39	2.0	15.3	33742	3
AgriGold	A6544VT2PRO	235	.	.	101	0.38	2.4	13.7	34242	1
AgriGold	A6711VT2PRO	232	214	.	104	0.39	2.0	14.4	31973	4
Average		244 ⁵	233	239	102	0.40	2.2	14.5	33593	2
LSD at 10% Level		NS	18	NS	2	NS	NS	0.9	NS	-
Std. Err. of Entry Mean		14	7	6	1	0.02	0.1	0.4	880	1
Mid- and Full-Season										
Terral Seed	REV28BHR18	258	243	.	105	0.48	2.0	16.3	29369	1
DEKALB	DKC69-16 GENSS	256	.	.	103	0.41	2.0	14.8	34239	2
AgriGold	A6659VT2PRO	253	240	.	101	0.43	2.0	15.9	32996	3
Pioneer	P1870YHR	248	235	.	102	0.41	2.3	16.2	33067	0
Local Seed	LC1987VT2P	244	.	.	101	0.41	1.8	16.4	33106	1
DEKALB	DKC68-69 GENVT2P	243	.	.	100	0.42	2.0	16.7	32739	0
Local Seed	LC1878VT2P	242	.	.	103	0.41	2.0	14.8	32322	0
Terral Seed	REV27BHR79	241	.	.	101	0.41	1.9	16.0	32931	2
Local Seed	LC1577VT2P	240	.	.	102	0.40	2.0	14.5	33367	1
DEKALB	DKC66-29 TRE	239	.	.	100	0.40	2.0	14.2	33454	1
AgriGold	A6499STX	238	213	.	101	0.39	2.3	15.9	33280	1
AgriGold	A647-90VT2PRO	238	.	.	102	0.38	1.4	15.8	34348	0
Pioneer	P1662YHR	229	225	.	101	0.37	2.4	15.9	33628	1
Pioneer	P1916YHR	228	218	221	100	0.38	2.5	16.3	33367	0
Local Seed	LC1776VT2P	227	.	.	101	0.38	1.9	15.4	33454	1
DEKALB	DKC67-99 TRE	227	.	.	100	0.38	2.5	14.1	33483	4
Average		241 ⁶	229	221	102	0.40	2.0	15.6	33072	1
LSD at 10% Level		NS	16	-	2	0.04	0.3	0.7	NS	-
Std. Err. of Entry Mean		10	7	-	1	0.02	0.1	0.3	983	1

Athens, Georgia: Corn Grain Performance, 2018, Irrigated (Continued)

1. Yields calculated as 56 pounds per bushel at 15.5% moisture.
2. 3-year data comprised of Athens 2018, 2017 and Griffin 2016 trials.
3. Grain quality rating: 1 = excellent to 5 = poor.
4. Grain moisture at harvest.
5. CV = 11.6%, and df for EMS = 24.
6. CV = 7.9%, and df for EMS = 45.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: April 2, 2018.

Harvested: September 6, 2018.

Seeding Rate: 36,240 seeds per acre in 30-inch rows.

Soil Type: Cecil gravelly sandy loam.

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

Fertilization: 30 lb N, 143 lb P₂O₅, and 165 lb K₂O/acre as preplant; 300 lb N/acre as sidedress.

Previous Crop: Rye.

Management: Strip-tillage; Atrazine, Zidua, and Acent Q used for weed control; irrigated 12.5 inches.

Test conducted by H. Jordan, G. Ware, B. Weldy, J. Cartey, C. Fox, J. Griffin, and K. Roach.

North Georgia Region

Limestone Valley and Mountain Regions Summary: Corn Grain Performance, Georgia, 2018

Company or Brand Name	Variety	Calhoun Non-Irr.	Calhoun Irrigated	Blairsville Non-Irr.	Regional Average
		----- bu/acre -----			
Short-Season					
Terral Seed	REV25BHR89	261	282	333	292
AgriGold	A6544VT2PRO	250	290	299	280
Terral Seed	REV24BHR99	258	283	284	275
Local Seed	AV8614VYHR	248	286	282	272
Terral Seed	REV23BHR55	249	272	291	271
Terral Seed	REV25BHR26	261	263	286	270
Local Seed	AV8430VYHR	243	262	299	268
AgriGold	A642-59VT2PRO	245	241	273	253
Augusta	1165VT2PRO	237	268	.	.
Augusta	5065GT3111	232	254	.	.
AgriGold	A6711VT2PRO	.	287	350	.
Average		248	272	299	272
LSD at 10% Level		NS	25	43	NS
Std. Err. of Entry Mean		10	10	18	9
Mid- and Full-Season					
DEKALB	DKC66-29 TRE	272	300	309	294
Pioneer	P1662YHR	236	272	359	289
Local Seed	LC1776VT2P	257	278	331	288
Terral Seed	REV28BHR18	272	294	287	284
DEKALB	DKC68-69 GENVT2P	244	248	334	275
Terral Seed	REV27BHR79	251	290	281	274
DEKALB	DKC69-16 GENSS	247	277	288	270
Pioneer	P1916YHR	234	279	289	267
DEKALB	DKC67-99 TRE	248	262	288	266
Pioneer	P1870YHR	251	268	275	265
AgriGold	A6659VT2PRO	250	247	297	265
Local Seed	LC1577VT2P	230	283	278	263
Local Seed	LC1878VT2P	231	257	293	260
AgriGold	A647-90VT2PRO	219	248	297	255
Local Seed	LC1987VT2P	225	243	287	251
AgriGold	A6499STX	227	245	277	250
Augusta	1226 VT2PRO	243	264	.	.
Augusta	1367 3220GT	228	262	.	.
Average		242	267	298	270
LSD at 10% Level		26	25	34	23
Std. Err. of Entry Mean		11	10	14	10

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Calhoun, Georgia: Corn Grain Performance, 2018, Dryland

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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
Short-Season										
Terral Seed	REV25BHR26	261	215	187	104	0.60	2.1	14.3	23784	0
Terral Seed	REV25BHR89	261	.	.	103	0.62	2.0	14.4	22390	0
Terral Seed	REV24BHR99	258	.	.	107	0.58	2.0	14.4	23261	0
AgriGold	A6544VT2PRO	250	.	.	102	0.56	2.6	14.2	24655	0
Terral Seed	REV23BHR55	249	217	196	104	0.56	2.3	14.3	23958	0
Local Seed	AV8614VYHR	248	.	.	100	0.59	2.0	14.9	23436	1
AgriGold	A642-59VT2PRO	245	.	.	102	0.55	2.0	14.7	24307	0
Local Seed	AV8430VYHR	243	.	.	103	0.55	2.5	14.2	23784	0
Augusta	1165VT2PRO	237	.	.	102	0.56	2.0	15.0	23348	0
Augusta	5065GT3111	232	.	.	102	0.61	2.0	15.4	21083	1
Average		248 ⁴	202	192	103	0.58	2.1	14.6	23401	0
LSD at 10% Level		NS	NS	NS	3	NS	0.2	0.3	1221	-
Std. Err. of Entry Mean		10	6	7	1	0.02	0.1	0.1	507	0
Mid- and Full-Season										
DEKALB	DKC66-29 TRE	272	.	.	99	0.62	2.0	14.5	24830	0
Terral Seed	REV28BHR18	272	231	.	102	0.62	2.1	15.4	24132	0
Local Seed	LC1776VT2P	257	.	.	100	0.58	2.0	14.4	24742	0
Pioneer	P1870YHR	251	211	.	101	0.61	2.0	15.9	22826	0
Terral Seed	REV27BHR79	251	.	.	101	0.58	1.9	15.4	23871	0
AgriGold	A6659VT2PRO	250	210	.	104	0.56	2.0	14.6	23958	1
DEKALB	DKC67-99 TRE	248	.	.	102	0.61	2.0	14.5	22390	0
DEKALB	DKC69-16 GENSS	247	.	.	105	0.55	2.0	14.8	23958	0
DEKALB	DKC68-69 GENVT2P	244	.	.	103	0.56	1.8	16.0	23697	0
Augusta	1226 VT2PRO	243	.	.	103	0.55	2.0	14.6	24133	0
Pioneer	P1662YHR	236	192	.	102	0.54	2.4	16.0	23784	0
Pioneer	P1916YHR	234	197	181	102	0.54	2.1	15.7	24132	0
Local Seed	LC1878VT2P	231	.	.	106	0.52	1.9	15.6	23523	0
Local Seed	LC1577VT2P	230	.	.	105	0.53	2.0	14.8	23523	0
Augusta	1367 3220GT	228	.	.	101	0.55	2.4	15.9	23000	0
AgriGold	A6499STX	227	198	.	99	0.53	2.0	15.1	24481	0
Local Seed	LC1987VT2P	225	.	.	102	0.52	1.9	16.2	23697	0
AgriGold	A647-90VT2PRO	219	.	.	101	0.52	2.0	15.2	23610	0
Average		242 ⁵	207	181	102	0.56	2.0	15.2	23794	0
LSD at 10% Level		26	14	-	NS	0.06	0.3	0.6	1067	-
Std. Err. of Entry Mean		11	6	-	2	0.02	0.1	0.3	450	0

Calhoun, Georgia: Corn Grain Performance, 2018, Dryland (Continued)

1. Yields calculated as 56 pounds per bushel at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.3%, and df for EMS = 26.
5. CV = 9.0%, and df for EMS = 51.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: April 12, 2018.

Harvested: September 19, 2018.

Seeding Rate: 25,090 seeds per acre in 30-inch rows.

Soil Type: Etowah and Wax loams.

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

Fertilization: 75 lb N, 0 lb P₂O₅, and 0 lb K₂O/acre as preplant; 155 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Atrazine, Zidua, Callisto, and Option used for weed control.

Test conducted by H. Jordan, G. Ware, B. Weldy, M. Tucker, and T. Turnquist.

Calhoun, Georgia: Corn Grain Performance, 2018, 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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
		----- bu/acre -----								
Short-Season										
AgriGold	A6544VT2PRO	290	.	.	100	0.48	2.0	14.0	33803	0
AgriGold	A6711VT2PRO	287	261	.	101	0.47	2.0	14.8	32931	0
Local Seed	AV8614VYHR	286	.	.	100	0.48	2.0	15.1	33280	0
Terral Seed	REV24BHR99	283	.	.	100	0.47	2.0	14.9	33716	0
Terral Seed	REV25BHR89	282	.	.	100	0.48	2.0	15.2	33106	1
Terral Seed	REV23BHR55	272	242	228	99	0.45	2.0	14.8	34238	1
Augusta	1165VT2PRO	268	.	.	99	0.46	2.0	15.0	32932	0
Terral Seed	REV25BHR26	263	234	221	101	0.44	2.0	15.1	33019	0
Local Seed	AV8430VYHR	262	.	.	99	0.44	2.1	14.7	33280	0
Augusta	5065GT3111	254	.	.	100	0.45	2.0	16.2	31538	0
AgriGold	A642-59VT2PRO	241	.	.	98	0.43	2.0	14.7	32235	1
Average		272 ⁴	246	225	100	0.46	2.0	14.9	33098	0
LSD at 10% Level		25	NS	NS	NS	NS	NS	0.6	1229	-
Std. Err. of Entry Mean		10	8	12	1	0.02	0.1	0.2	512	0
Mid- and Full-Season										
DEKALB	DKC66-29 TRE	300	.	.	100	0.49	2.0	14.5	34151	1
Terral Seed	REV28BHR18	294	254	.	99	0.49	2.0	15.9	33803	0
Terral Seed	REV27BHR79	290	.	.	100	0.50	1.7	15.6	33019	1
Local Seed	LC1577VT2P	283	.	.	99	0.49	2.0	14.2	32757	0
Pioneer	P1916YHR	279	248	229	100	0.48	2.0	16.2	32496	0
Local Seed	LC1776VT2P	278	.	.	101	0.45	2.0	14.9	34064	0
DEKALB	DKC69-16 GENSS	277	.	.	100	0.48	2.0	14.5	32641	0
Pioneer	P1662YHR	272	235	.	100	0.44	2.0	15.9	34500	0
Pioneer	P1870YHR	268	236	.	100	0.43	2.0	16.3	34935	0
Augusta	1226 VT2PRO	264	.	.	100	0.45	2.0	15.2	32932	0
Augusta	1367 3220GT	262	.	.	98	0.46	2.1	16.0	32757	1
DEKALB	DKC67-99 TRE	262	.	.	100	0.46	2.0	15.3	32235	1
Local Seed	LC1878VT2P	257	.	.	99	0.46	1.9	15.2	31973	0
DEKALB	DKC68-69 GENVT2P	248	.	.	101	0.43	1.6	15.8	32060	0
AgriGold	A647-90VT2PRO	248	.	.	100	0.44	1.5	15.1	31276	0
AgriGold	A6659VT2PRO	247	233	.	101	0.41	1.9	15.3	33367	0
AgriGold	A6499STX	245	212	.	101	0.43	1.9	15.5	31886	0
Local Seed	LC1987VT2P	243	.	.	101	0.43	1.8	15.6	31363	0
Average		267 ⁵	237	229	100	0.46	1.9	15.4	32901	0
LSD at 10% Level		25	23	-	NS	0.04	NS	0.7	1574	-
Std. Err. of Entry Mean		10	9	-	1	0.02	0.1	0.3	658	0

**Calhoun, Georgia:
Corn Grain Performance, 2018, Irrigated
(Continued)**

1. Yields calculated as 56 pounds per bushel 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 = 29.
5. CV = 7.7%, and df for EMS = 50.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: April 12, 2018.

Harvested: September 19, 2018.

Seeding Rate: 36,240 seeds per acre in 30-inch rows.

Soil Type: Etowah and Wax loams.

Soil Test: P = High, K = Very High, and pH = 6.9.

Fertilization: 210 lb N, 205 lb P₂O₅, and 0 lb K₂O/acre as preplant; 260 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Atrazine, Zidua, Callisto, and Option used for weed control; irrigated 5 inches.

Test conducted by H. Jordan, G. Ware, B. Weldy, M. Tucker, and T. Turnquist.

Blairsville, Georgia: Corn Grain Performance, 2018, Dryland

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.	Lodging %
		2018	2-Yr Avg	3-Yr Avg						
Short-Season										
AgriGold	A6711VT2PRO	350	303	.	100	0.59	2.0	16.7	33019	2
Terral Seed	REV25BHR89	333	.	.	99	0.57	2.6	17.4	33106	1
AgriGold	A6544VT2PRO	299	.	.	99	0.50	2.1	16.1	33977	1
Local Seed	AV8430VYHR	299	.	.	101	0.48	2.9	15.7	34761	1
Terral Seed	REV23BHR55	291	299	298	102	0.47	3.0	17.2	34151	0
Terral Seed	REV25BHR26	286	295	291	101	0.46	2.3	17.0	34848	0
Terral Seed	REV24BHR99	284	.	.	102	0.43	2.3	16.6	35196	6
Local Seed	AV8614VYHR	282	.	.	100	0.47	2.6	18.0	33629	2
AgriGold	A642-59VT2PRO	273	.	.	99	0.46	2.0	17.3	33890	1
Average		299 ⁴	299	295	100	0.49	2.4	16.9	34064	1
LSD at 10% Level		43	NS	NS	2	0.08	0.3	NS	1200	-
Std. Err. of Entry Mean		18	15	5	1	0.03	0.1	0.5	486	1
Mid- and Full-Season										
Pioneer	P1662YHR	359	306	.	101	0.58	2.3	16.3	34616	0
DEKALB	DKC68-69 GENVT2P	334	.	.	101	0.55	1.6	17.5	33803	0
Local Seed	LC1776VT2P	331	.	.	101	0.56	2.0	17.5	32844	1
DEKALB	DKC66-29 TRE	309	.	.	100	0.52	2.0	16.4	33628	0
AgriGold	A647-90VT2PRO	297	.	.	100	0.50	1.4	16.7	33716	0
AgriGold	A6659VT2PRO	297	273	.	101	0.49	1.8	17.7	33454	1
Local Seed	LC1878VT2P	293	.	.	102	0.48	2.0	18.1	33193	0
Pioneer	P1916YHR	289	.	.	100	0.49	2.0	16.3	33367	0
DEKALB	DKC69-16 GENSS	288	.	.	100	0.49	2.0	17.1	33367	1
DEKALB	DKC67-99 TRE	288	.	.	100	0.49	2.0	16.4	32757	0
Terral Seed	REV28BHR18	287	287	.	100	0.49	2.3	17.6	32583	1
Local Seed	LC1987VT2P	287	.	.	100	0.48	1.3	17.1	33977	0
Terral Seed	REV27BHR79	281	.	.	100	0.48	2.1	17.8	33106	7
Local Seed	LC1577VT2P	278	.	.	100	0.46	2.0	16.1	33977	1
AgriGold	A6499STX	277	266	.	100	0.46	1.9	16.5	33716	0
Pioneer	P1870YHR	275	290	.	100	0.46	2.0	18.1	33890	0
Average		298 ⁵	284	-	100	0.50	1.9	17.1	33499	1
LSD at 10% Level		34	NS	-	1	0.06	0.3	NS	NS	-
Std. Err. of Entry Mean		14	13	-	1	0.03	0.1	0.6	648	1

**Blairsville, Georgia:
Corn Grain Performance, 2018, Dryland
(Continued)**

1. Yields calculated as 56 pounds per bushel at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 11.7%, and df for EMS = 24.
5. CV = 9.5%, and df for EMS = 44.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: May 3, 2018.

Harvested: October 8, 2018.

Seeding Rate: 36,240 seeds per acre in 30-inch rows.

Soil Type: Suches loam.

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

Fertilization: 130 lb N, 120 lb P₂O₅, and 180 lb K₂O/acre as preplant; 276 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Anthem ATZ used for weed control.

Test conducted by H. Jordan, G. Ware, B. Weldy, C. Graham, L. Lee, D. Patterson, and D. Rogers.

Silage Test Results

Statewide Summary: Corn Silage Performance, 2018

Company or Brand Name	Hybrid Name	Dry Matter Yield				
		Statewide	Tifton	Athens	Calhoun	Blairsville
		----- tons/acre -----				
AgraTech	1024VIP	.	14.8	.	.	.
AgraTech	1778VIP	.	15.1	.	.	.
AgraTech	749VT2P	.	13.9	.	.	.
AgraTech	909VIP	.	12.9	.	.	.
Augusta	1165 VT2PRO	.	13.8	.	11.2	.
Augusta	1367 3220GT	.	13.9	.	12.0	.
Augusta	7768 (7767-3110GT)	.	14.0	.	10.6	.
Croplan	S5700VT2P	.	14.1	.	.	.
Croplan	S5900VT2P	.	13.9	.	.	.
DEKALB	DKC66-29 TRE	12.3	13.9	11.4	11.2	12.5
DEKALB	DKC67-99 TRE	10.4	13.0	9.5	8.9	10.5
DEKALB	DKC68-69 GENVT2P	11.4	12.3	11.6	10.7	11.1
DEKALB	DKC69-16 GENSS	12.1	13.9	10.1	12.3	12.1
Dyna-Gro	D55GT73	.	15.9	.	.	.
Dyna-Gro	D55QC73	.	13.9	.	.	.
Dyna-Gro	D55VC45	.	12.8	.	.	.
Dyna-Gro	D58QC72	.	13.7	.	.	.
Dyna-Gro	D58VC65	.	12.7	.	.	.
Masters Choice	MCT6552	.	12.4	.	.	.
Masters Choice	MCT6653	.	12.5	.	.	.
Masters Choice	MCT6733	.	12.6	.	.	.
Pioneer	P1662YHR	11.6	14.0	10.7	10.3	11.4
Pioneer	P1847VYHR	12.1	14.7	10.5	11.0	12.2
Pioneer	P1870YHR	11.2	13.4	10.4	10.4	10.7
Syngenta	NK1573-3010	.	12.3	.	.	.
Syngenta	NK1694-3111	.	13.2	.	.	.
Syngenta	NK1808-3111	.	14.5	.	.	.
Terral Seed	REV14L46	11.6	13.8	10.1	10.9	11.6
Terral Seed	REV14R77	.	11.0	.	.	.
Terral Seed	REV15H86	.	.	11.3	10.7	10.1
Terral Seed	REV25BHR26	.	14.4	9.9	.	.
Terral Seed	REV25BHR89	.	13.8	10.1	.	.
Terral Seed	REV27F95PWE	12.2	14.0	12.1	9.1	13.7
Terral Seed	REV28BHR18	.	14.3	9.8	.	.
Average		11.7 ¹	13.6	10.6	10.7	11.6
LSD at 10% Level		1.1	1.5	NS	1.3	1.4
Std. Err. of Entry Mean		0.5	0.6	0.8	0.5	0.6

1. CV = 16.2%, and df for EMS = 117.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Quality Factors of Corn Hybrids for Silage, Tifton, Georgia, 2018

Company or Brand Name	Hybrid Name	Quality Factors ¹				Dry Yield Components					
		TDN ²	NE _L ³	Calculated Milk		Crude Protein	Fat	Starch	NDF ⁵	ADF ⁶	NDFD48 ⁷
		%	Mcal/lb	lb/ton ⁴	lb/acre	%	%	%	%	%	% NDF
AgraTech	1024VIP	68.1	0.65	2787	32330	8.6	5.0	23.0	49.3	32.4	57.5
AgraTech	1778VIP	68.5	0.66	2845	35157	9.1	5.2	31.0	41.9	28.8	56.0
AgraTech	749VT2P	67.3	0.65	3030	32884	7.8	4.5	46.0	34.5	25.0	52.3
AgraTech	909VIP	66.8	0.65	2733	33320	8.3	4.7	36.9	41.0	28.6	53.6
Augusta	1165 VT2PRO	68.3	0.66	2756	34914	8.1	4.9	42.7	35.7	24.8	54.1
Augusta	1367 3220GT	66.8	0.64	2753	32904	8.0	4.4	34.3	42.6	29.5	54.7
Augusta	7768 (7767-3110GT)	66.0	0.64	2916	35581	7.9	4.3	43.5	36.3	25.1	51.5
Croplan	S5700VT2P	67.5	0.65	2785	35641	9.0	4.8	37.7	37.0	26.4	52.7
Croplan	S5900VT2P	66.6	0.65	2613	31100	8.3	5.0	33.9	41.3	29.7	50.7
DEKALB	DKC66-29 TRE	67.0	0.65	2807	31204	7.7	4.8	40.2	38.0	27.2	52.4
DEKALB	DKC67-99 TRE	69.5	0.68	2828	31675	8.8	5.5	43.3	33.8	23.6	54.5
DEKALB	DKC68-69 GENVT2P	67.9	0.66	2830	34602	9.2	5.1	35.6	38.8	26.0	54.5
DEKALB	DKC69-16 GENSS	66.3	0.64	2868	34966	7.9	4.7	37.7	39.6	28.0	51.8
Dyna-Gro	D55GT73	66.9	0.65	2790	32495	8.4	4.8	36.9	40.2	27.4	53.6
Dyna-Gro	D55QC73	66.4	0.64	2813	33761	8.2	4.5	40.1	37.8	26.4	51.9
Dyna-Gro	D55VC45	65.3	0.63	2813	32499	8.2	4.4	39.8	39.3	27.6	51.3
Dyna-Gro	D58QC72	65.8	0.63	2765	34409	8.5	4.3	39.5	38.1	26.4	52.4
Dyna-Gro	D58VC65	68.1	0.66	2796	36349	8.0	5.2	40.8	37.5	26.9	53.0
Masters Choice	MCT6552	67.9	0.66	2760	32419	9.7	4.8	42.9	34.1	23.2	54.0
Masters Choice	MCT6653	66.2	0.63	2819	34017	8.6	4.5	29.3	44.1	30.0	54.7
Masters Choice	MCT6733	66.7	0.65	2793	35688	8.3	4.5	39.4	38.6	26.6	52.9
Pioneer	P1662YHR	67.5	0.66	2862	31844	8.2	4.9	42.8	36.1	25.4	51.9
Pioneer	P1847VYHR	67.9	0.66	2764	31778	8.9	5.3	35.1	39.6	27.5	53.4
Pioneer	P1870YHR	68.1	0.66	2766	34710	8.6	4.9	40.9	36.9	26.0	54.2
Syngenta	NK1573-3010	66.5	0.64	2805	31679	9.0	4.6	37.8	39.1	26.6	53.3
Syngenta	NK1694-3111	65.6	0.63	2789	32313	7.6	4.5	38.6	40.5	28.7	51.9
Syngenta	NK1808-3111	66.6	0.64	2813	36995	8.6	4.3	38.0	39.4	27.4	53.4
Terral Seed	REV14L46	65.4	0.62	2641	33348	8.6	3.8	32.1	44.7	29.6	55.6
Terral Seed	REV14R77	66.5	0.64	2890	33093	8.3	4.2	43.2	36.6	26.3	52.9
Terral Seed	REV25BHR26	67.6	0.66	2822	31967	8.2	5.0	50.0	32.3	23.9	50.8
Terral Seed	REV25BHR89	67.2	0.65	2900	31561	8.8	4.9	40.4	37.5	25.9	53.1
Terral Seed	REV27F95PWE	64.7	0.63	2535	30613	8.0	4.0	46.0	36.9	25.3	50.3
Terral Seed	REV28BHR18	66.5	0.64	2868	30555	9.2	4.6	37.0	39.3	26.7	53.1
Average		67.0	0.65	2799 ⁸	33284 ⁹	8.4	4.7	38.7	38.7	26.9	53.1
LSD at 10% Level		NS	NS	NS	NS	NS	0.6	8.1	5.1	3.0	NS
Std. Err. of Entry Mean		0.7	0.01	55	1446	0.3	0.2	2.4	1.5	0.9	0.9

Quality Factors of Corn Hybrids for Silage, Tifton, Georgia, 2018 (Continued)

1. Calculated using University of Wisconsin Corn Silage Evaluation System-Milk 2006 model.
2. Total digestible nutrient: a measure of energy value expressed as a percentage of dry matter.
3. Net energy for lactation: an estimate of energy value.
4. Pounds of milk per dry ton of forage.
5. Neutral detergent fiber: a measure of total fiber components expressed as a percentage of dry matter.
6. Acid detergent fiber: a measure of cellulose and lignin portions of total fiber as a percentage of dry matter.
7. Digestibility of neutral detergent fiber component after 48 hours expressed as a percentage of NDF.
8. CV = 3.9%, and df for EMS = 32.
9. CV = 8.7%, and df for EMS = 32.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Elemental Analysis of Corn Hybrids for Silage, Tifton, Georgia, 2018

Company or Brand Name	Hybrid Name	Dry Yield Components							
		Ash ¹	P	K	Ca	Mg	Na	Cl	S
		%	%	%	%	%	%	%	%
AgraTech	1024VIP	4.9	0.37	2.9	0.53	0.31	0.03	0.45	0.14
AgraTech	1778VIP	4.8	0.41	3.0	0.59	0.32	0.03	0.38	0.13
AgraTech	749VT2P	3.4	0.38	2.5	0.48	0.26	0.01	0.25	0.11
AgraTech	909VIP	3.9	0.40	2.7	0.48	0.30	0.02	0.31	0.12
Augusta	1165 VT2PRO	3.6	0.39	2.6	0.51	0.29	0.01	0.30	0.11
Augusta	1367 3220GT	4.0	0.39	2.7	0.47	0.29	0.02	0.33	0.11
Augusta	7768 (7767-3110GT)	3.9	0.34	2.2	0.42	0.23	0.01	0.35	0.11
Croplan	S5700VT2P	4.3	0.39	2.6	0.53	0.28	0.02	0.30	0.12
Croplan	S5900VT2P	3.9	0.38	2.5	0.50	0.27	0.03	0.33	0.12
DEKALB	DKC66-29 TRE	3.8	0.38	2.5	0.47	0.26	0.02	0.34	0.12
DEKALB	DKC67-99 TRE	3.9	0.42	2.9	0.59	0.29	0.02	0.35	0.13
DEKALB	DKC68-69 GENVT2P	4.8	0.40	2.8	0.55	0.29	0.03	0.37	0.13
DEKALB	DKC69-16 GENSS	4.0	0.37	2.6	0.47	0.27	0.02	0.32	0.12
Dyna-Gro	D55GT73	4.4	0.35	2.6	0.51	0.26	0.02	0.36	0.12
Dyna-Gro	D55QC73	4.0	0.37	2.5	0.48	0.27	0.01	0.27	0.11
Dyna-Gro	D55VC45	4.1	0.38	2.5	0.47	0.26	0.02	0.32	0.12
Dyna-Gro	D58QC72	4.5	0.37	2.5	0.47	0.25	0.02	0.38	0.12
Dyna-Gro	D58VC65	3.5	0.38	2.6	0.52	0.27	0.02	0.33	0.12
Masters Choice	MCT6552	4.4	0.39	2.7	0.56	0.28	0.02	0.32	0.12
Masters Choice	MCT6653	5.3	0.36	2.8	0.50	0.27	0.03	0.43	0.14
Masters Choice	MCT6733	3.9	0.39	2.6	0.50	0.29	0.01	0.31	0.11
Pioneer	P1662YHR	3.4	0.39	2.5	0.45	0.27	0.01	0.31	0.11
Pioneer	P1847VYHR	4.5	0.39	2.9	0.54	0.28	0.03	0.41	0.13
Pioneer	P1870YHR	3.8	0.40	2.7	0.49	0.27	0.02	0.34	0.12
Syngenta	NK1573-3010	4.4	0.38	2.6	0.51	0.27	0.02	0.35	0.12
Syngenta	NK1694-3111	4.1	0.38	2.6	0.48	0.27	0.02	0.37	0.12
Syngenta	NK1808-3111	4.1	0.38	2.6	0.51	0.28	0.02	0.32	0.12
Terral Seed	REV14L46	4.8	0.39	2.7	0.44	0.28	0.02	0.33	0.12
Terral Seed	REV14R77	3.7	0.40	2.6	0.45	0.26	0.01	0.30	0.11
Terral Seed	REV25BHR26	2.9	0.40	2.6	0.52	0.29	0.01	0.24	0.11
Terral Seed	REV25BHR89	4.2	0.38	2.7	0.55	0.28	0.02	0.36	0.12
Terral Seed	REV27F95PWE	3.5	0.35	2.1	0.41	0.24	0.01	0.34	0.11
Terral Seed	REV28BHR18	4.6	0.38	2.6	0.48	0.26	0.02	0.38	0.13
Average		4.1	0.38	2.6	0.50	0.27	0.02	0.34	0.12
LSD at 10% Level		1.0	0.03	0.3	0.07	0.03	NS	0.08	NS
Std. Err. of Entry Mean		0.3	0.01	0.1	0.02	0.01	0.00	0.02	0.00

1. Total mineral content, including all columns listed to the right.

"NS" indicates differences are statistically non-significant ($p = 0.10$ probability level).

Tifton, Georgia:
Evaluation of Corn Hybrids for Silage, 2018, Irrigated

Company or Brand Name	Hybrid Name	Relative Maturity days	Forage Yield		Dry Matter %	Grain Portion %	Plant Pop. no.	2-Yr Avg Dry Forage Yield tons/acre
			Dry tons/acre	Green ¹ tons/acre				
Dyna-Gro	D55GT73	115	15.9	45.3	45.0	54	36726	14.5
AgraTech	1778VIP	114	15.1	43.1	43.6	47	37367	.
AgraTech	1024VIP	125	14.8	42.4	41.4	40	37153	.
Pioneer	P1847VYHR	118	14.7	42.1	45.8	54	36299	.
Syngenta	NK1808-3111	118	14.5	41.2	43.7	52	36086	.
Terral Seed	REV25BHR26	115	14.4	41.1	48.1	58	35232	13.5
Terral Seed	REV28BHR18	118	14.3	40.7	46.2	55	36726	13.0
Croplan	S5700VT2P	117	14.1	40.2	48.3	54	36299	.
Augusta	7768 (7767-3110GT)	118	14.0	40.0	43.7	56	34805	.
Terral Seed	REV27F95PWE	117	14.0	39.9	47.3	57	35659	.
Pioneer	P1662YHR	112	14.0	39.9	47.0	55	35872	13.0
DEKALB	DKC66-29 TRE	116	13.9	39.8	49.3	54	36726	.
DEKALB	DKC69-16 GENSS	119	13.9	39.8	47.9	56	35232	.
Croplan	S5900VT2P	119	13.9	39.8	45.3	45	35872	13.2
AgraTech	749VT2P	120	13.9	39.8	48.7	59	37794	.
Dyna-Gro	D55QC73	115	13.9	39.6	43.2	52	36940	.
Augusta	1367 3220GT	117	13.9	39.6	47.5	51	36513	.
Terral Seed	REV14L46	114	13.8	39.5	48.0	45	36513	.
Augusta	1165 VT2PRO	115	13.8	39.3	47.5	53	36299	13.0
Terral Seed	REV25BHR89	115	13.8	39.3	47.9	54	34805	.
Dyna-Gro	D58QC72	118	13.7	39.1	45.7	52	36299	13.7
Pioneer	P1870YHR	112	13.4	38.2	46.9	55	35018	12.4
Syngenta	NK1694-3111	116	13.2	37.6	46.7	51	34805	.
DEKALB	DKC67-99 TRE	117	13.0	37.1	46.6	54	35232	.
AgraTech	909VIP	118	12.9	36.8	43.3	44	34591	.
Dyna-Gro	D55VC45	115	12.8	36.5	48.4	51	36940	12.5
Dyna-Gro	D58VC65	118	12.7	36.2	49.4	53	35872	.
Masters Choice	MCT6733	117	12.6	36.0	51.2	53	36940	11.5
Masters Choice	MCT6653	116	12.5	35.7	45.1	52	35018	12.9
Masters Choice	MCT6552	115	12.4	35.4	43.9	56	35872	.
DEKALB	DKC68-69 GENVT2P	118	12.3	35.2	46.1	53	36513	.
Syngenta	NK1573-3010	115	12.3	35.2	46.5	51	37153	.
Terral Seed	REV14R77	114	11.0	31.3	46.5	52	32456	.
Average			13.6 ²	38.9	46.4	52	35988	13.0
LSD at 10% Level			1.5	4.2	0.9	6	1815	1.2
Std. Err. of Entry Mean			0.6	1.8	0.4	2	773	0.5

Tifton, Georgia: Evaluation of Corn Hybrids for Silage, 2018, Irrigated (Continued)

1. Green yields are standardized to 35% dry matter.
2. CV = 9.1%, and df for EMS = 96.

Bolded yields are statistically non-significant ($p = 0.10$ level) from the highest yielding test entry.

Planted: March 29, 2018.

Harvested: July 24, 2018, with 2,737 Growing Degree Units accumulated.

Seeding Rate: 39,289 seeds per acre in 36-inch rows.

Soil Type: Tifton loamy sand.

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

Fertilization: 125 lb N, 210 lb P₂O₅, and 300 lb K₂O/acre as preplant; 240 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Atrazine, Zidua, Warrant, and Basagran used for weed control; Telone II used for nematode control; irrigated 8.0 inches.

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

Athens, Georgia: Evaluation of Corn Hybrids for Silage, 2018, Irrigated

Company or Brand Name	Hybrid Name	Relative Maturity days	Forage Yield		Dry Matter %	Grain Portion %	Plant Pop. no.	2-Yr Avg
			Dry tons/acre	Green ¹ tons/acre				Dry Forage Yield tons/acre
Terral Seed	REV27F95PWE	117	12.1	34.6	40.2	49	34359	.
DEKALB	DKC68-69 GENVT2P	118	11.6	33.1	42.4	52	32546	.
DEKALB	DKC66-29 TRE	116	11.4	32.5	42.0	57	33064	.
Terral Seed	REV15H86	115	11.3	32.4	45.4	54	33247	.
Pioneer	P1662YHR	112	10.7	30.5	41.0	55	34292	9.6
Pioneer	P1847VYHR	118	10.5	30.0	39.4	55	32931	.
Pioneer	P1870YHR	112	10.4	29.6	39.3	60	31862	9.8
Terral Seed	REV25BHR89	115	10.1	28.9	40.0	61	31015	.
Terral Seed	REV14L46	114	10.1	28.9	39.7	48	32409	.
DEKALB	DKC69-16 GENSS	119	10.1	28.8	37.5	56	32409	.
Terral Seed	REV25BHR26	115	9.9	28.1	37.2	58	33628	9.5
Terral Seed	REV28BHR18	118	9.8	28.0	39.9	56	29795	9.3
DEKALB	DKC67-99 TRE	117	9.5	27.1	38.5	58	31145	.
Average			10.6 ²	30.2	40.2	55	32515	9.6
LSD at 10% Level			NS	NS	2.3	3	NS	NS
Std. Err. of Entry Mean			0.8	2.2	0.9	1	1299	0.6

1. Green yields are standardized to 35% dry matter.

2. CV = 14.4%, and df for EMS = 36.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: April 2, 2018.

Harvested: July 30, 2018, with 2,608 Growing Degree Units accumulated.

Seeding Rate: 36,240 seeds per acre in 30-inch rows.

Soil Type: Cecil gravelly sandy loam.

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

Fertilization: 30 lb N, 143 lb P₂O₅, and 165 lb K₂O/acre as preplant; 300 lb N/acre as sidedress; 1000 lb dolomitic lime/acre.

Previous Crop: Rye.

Management: Strip-tilled; Atrazine, Zidua, and Accent Q used for weed control; irrigated 12.5 inches.

Test conducted by H. Jordan, G. Ware, B. Weldy, J. Cartey, C. Fox, J. Griffin, and K. Roach.

Calhoun, Georgia: Evaluation of Corn Hybrids for Silage, 2018, Irrigated

Company or Brand Name	Hybrid Name	Relative Maturity days	Forage Yield		Dry Matter %	Grain Portion %	Plant Pop. no.	2-Yr Avg Dry Forage Yield ² tons/acre
			Dry tons/acre	Green ¹				
DEKALB	DKC69-16 GENSS	119	12.3	35.1	35.0	37	33106	.
Augusta	1367 3220GT	117	12.0	34.4	35.6	41	33106	.
DEKALB	DKC66-29 TRE	116	11.2	32.1	38.1	40	34151	.
Augusta	1165 VT2PRO	115	11.2	32.0	36.1	38	32583	.
Pioneer	P1847VYHR	118	11.0	31.5	39.7	44	33803	.
Terral Seed	REV14L46	114	10.9	31.1	36.6	37	32931	.
DEKALB	DKC68-69 GENVT2P	118	10.7	30.7	41.0	44	32757	.
Terral Seed	REV15H86	115	10.7	30.7	42.2	45	33628	.
Augusta	7768 (7767-3110GT)	118	10.6	30.2	37.1	44	30840	.
Pioneer	P1870YHR	112	10.4	29.6	39.5	40	32409	.
Pioneer	P1662YHR	112	10.3	29.4	37.3	40	32409	.
Terral Seed	REV27F95PWE	117	9.1	26.1	43.7	45	31886	.
DEKALB	DKC67-99 TRE	117	8.9	25.4	35.2	39	32583	.
Average			10.7 ³	30.6	38.2	41	32784	-
LSD at 10% Level			1.3	3.6	5.0	NS	NS	-
Std. Err. of Entry Mean			0.5	1.5	2.1	3	727	-

1. Green yields are standardized to 35% dry matter.

2. No Calhoun 2017 data was reported, therefore no 2-year average available.

3. CV = 9.8%, and df for EMS = 36.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: April 12, 2018.

Harvested: August 13, 2018, with 2,864 Growing Degree Units accumulated.

Seeding Rate: 36,240 seeds per acre in 30-inch rows.

Soil Type: Etowah and Wax loams.

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

Fertilization: 133 lb N, 150 lb P₂O₅, and 195 lb K₂O/acre as preplant; 300 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Atrazine, Zidua, Callisto, and Option used for weed control; irrigated 5 inches.

Test conducted by H. Jordan, G. Ware, B. Weldy, M. Tucker, and T. Turnquist.

Blairsville, Georgia: Evaluation of Corn Hybrids for Silage, 2018, Dryland

Company or Brand Name	Hybrid Name	Relative Maturity days	Forage Yield		Dry Matter %	Grain Portion %	Plant Pop. no.	2-Yr Avg
			Dry tons/acre	Green ¹ tons/acre				Dry Forage Yield tons/acre
Terral Seed	REV27F95PWE	117	13.7	39.3	39.3	45	35197	.
DEKALB	DKC66-29 TRE	116	12.5	35.8	40.0	47	33454	.
Pioneer	P1847VYHR	118	12.2	34.8	35.9	48	35022	.
DEKALB	DKC69-16 GENSS	119	12.1	34.5	35.3	46	34151	.
Terral Seed	REV14L46	114	11.6	33.0	36.2	45	34848	12.4
Pioneer	P1662YHR	112	11.4	32.6	34.8	46	34674	11.2
DEKALB	DKC68-69 GENVT2P	118	11.1	31.6	38.5	50	34674	.
Pioneer	P1870YHR	112	10.7	30.5	36.3	45	34325	10.6
DEKALB	DKC67-99 TRE	117	10.5	29.9	36.6	48	34500	.
Terral Seed	REV15H86	115	10.1	28.8	38.4	46	35197	.
Average			11.6 ²	33.1	37.1	47	34604	11.4
LSD at 10% Level			1.4	3.9	NS	NS	NS	1.3
Std. Err. of Entry Mean			0.6	1.6	1.7	1	904	0.5

1. Green yields are standardized to 35% dry matter.

2. CV = 9.8%, and df for EMS = 27.

"NS" indicates differences are statistically non-significant (p = 0.10 probability level).

Bolded yields are statistically non-significant (p = 0.10 level) from the highest yielding test entry.

Planted: May 3, 2018.

Harvested: September 5, 2018, with 2,787 Growing Degree Units accumulated.

Seeding Rate: 36,240 seeds per acre in 30-inch rows.

Soil Type: Suches loam.

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

Fertilization: 130 lb N, 120 lb P₂O₅, and 180 lb K₂O/acre as preplant; 276 lb N/acre as sidedress.

Previous Crop: Soybeans.

Management: Conventional tillage; Anthem ATZ used for weed control.

Test conducted by H. Jordan, G. Ware, B. Weldy, C. Graham, L. Lee, D. Patterson, and D. Rogers.

Insect Screening Results

Multiple Insect Resistance in 53 Commercial Corn Hybrids, 2018

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

Commercial corn hybrids were screened for ear- and kernel-feeding insect resistance under field conditions at Tifton, Georgia, and the results are summarized in the following table. Of the 33 mid-season hybrids, nine were rated very good (VG), the highest rating for multiple insect resistance in 2018; 11 were good (G); seven were fair (F), and six were poor (P). Among the 20 short-season hybrids, five entries each were rated as VG, G, F, and P, respectively. Two hybrids were developed utilizing SmartStax™ technology; five hybrids have YHR traits (also known as Optimum® Intrasect™); 15 hybrids have Genuity VT Double PRO (VT2P) traits; and four hybrids have VT Triple PRO (VT3P) traits. The Optimum® Intrasect™ insect protection traits (or YHR) include a combination of two insect protection traits—Herculex® I and YieldGard® Corn Borer, while the VT2P or VT3P traits contain a stack of two or three Bt genes. VT2P hybrids targeted foliar- and ear-feeding lepidopteran pests, while VT3P hybrids have an additional Bt gene for rootworms. Corn rootworms and corn borers were not present at Tifton during these tests in 2018.

Overall insect damage on corn ears was relatively high in the 2018 trial, compared to observed damage in 2016 and 2017. The six types of ear- and/or kernel-feeding insects in order of damage severity were: corn earworm and fall armyworm, stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil. Corn earworm and fall armyworm damage was combined as symptoms between these two pests are very similar. Feeding penetration by these caterpillar pests of natural infestations in corn ears was between 0 and 5.6 cm per experimental plot, which was greater than the damage observed in 2017 (0.2-2.8 cm). Stink bug damage at the plot level in 2018 was also high, ranging from 0 to 22.6% of the kernels per ear, which was greater than that in 2017 (0.1 to 1.6%). Multiple species of sap beetles were recorded in 2018. Sap beetle damaged kernels were 0-40% per plot, which is much greater than 0.7-4.1% in 2017. Kernel damage by the pink scavenger caterpillar and maize weevil was relatively low in 2018, which was 0-5.8% and 0-2.8%, respectively. In addition, flowering time among all entries was similar (between 63 and 69 days after planting), irrespective of categorization of mid- (M) or short- (S) season maturity as shown in the table. The late flowering in 2018 in comparison to 2017 (50-57 days after planting) reflects the relatively cool and wet weather conditions before pollination at the Tifton location in 2018.

Because corn husk tightness and extension are considered important traits for ear- and kernel-feeding insect resistance, the husk features of the sampled ears were examined. Husk tightness was assigned using a scale of 1 to 5, in which 1 = very loose and 5 = very tight. Average ratings for husk tightness were between 3 and 5, which were all considered medium for husk tightness. Husk extension ranged from 0 to 4.8 cm. Both husk tightness and extension were negatively correlated to overall insect damage ratings in 2018. Multiple insect resistance was categorized in four groups according to the insect damage ratings on corn cobs and kernels; they are very good (VG), good (G), fair (F), and poor (P). VG represents the least amount of insect damage, while P represents the greatest amount of insect damage. The rankings of all hybrids for

multiple insect resistance in the table was based on the results of the principal component analysis using corn husk tightness and extension along with ear damage (by corn earworm and fall armyworm penetration listed in table) and kernel damage (by stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil). Although kernel-feeding insect damage data are not listed in the table, the results were included in data analysis and overall rankings. The data in this report are not indicative to yield. Yield data are available on the UGA Statewide Variety Testing web page found at: www.swvt.uga.edu.

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

The trial was planted on the University of Georgia Gibbs Research Farm near Tifton, Georgia, on March 29, 2018, and harvested on August 7, 2018. The experimental plots were thinned to 20,000 plants per acre and maintained following local extension publication-recommended agronomic practices. The experimental plots were maintained, as well as data collection was performed by Penny Tapp (USDA-ARS, Tifton), Ashleigh Burgess, Hannah Barry and Maribeth Tomberlin (UGA, Tifton).

Ear-Feeding Insect Resistance in 53 Commercial Corn Hybrids, Tifton, Georgia, 2018

Company or Brand Name	Hybrid Name	Days to Anthesis ¹	Husk Extension cm	Husk Tightness ² rating	2018 FAW+CEW Damage ³ cm	Overall Resistance to Insect Damage ⁴	
						2018	2 or more years
Mid-Season⁵							
Dyna-Gro	D57VC51	66	1.53	M	1.77	VG	F+
AgriGold	A6659VT2PRO	66	0.87	T	0.53	VG	VG-
Dyna-Gro	CX17117	67	1.27	M	0.67	VG	
DEKALB	DKC69-16 GENSS	67	1.10	M	0.83	VG	
DEKALB	DKC66-29 TRE	64	2.30	T	0.75	VG	
DEKALB	DKC67-99 TRE	64	2.15	M	1.20	VG	
Armor	X8117 Pro 2	66	1.25	T	1.78	VG	
Local Seed	LCX19483	64	2.45	M	0.00	VG	
AgraTech	88VT2P	67	1.35	M	0.88	VG	
Pioneer	P1916YHR	65	1.20	M	1.43	G	G
Dyna-Gro	D58VC37	64	1.45	M	0.75	G	G+
Croplan	5678 VT2P	65	0.95	M	0.95	G	G
MorCorn	MC 4725	65	0.85	M	0.95	G	VG-
DEKALB	DKC68-69 GENVT2P	65	0.95	M	0.75	G	
Terral Seed	REV27BHR79	66	0.90	M	0.35	G	
Local Seed	L1776VT2P	66	1.07	M	1.10	G	
Local Seed	LCX20544	65	2.15	M	1.03	G	
Augusta	1367 3220GT	66	1.53	M	0.67	G	
NK Brand	NK 1694-3111	66	0.85	M	1.33	G	
Local Seed	LC1878VT2P	66	1.15	M	0.93	G	
Terral Seed	REV28BHR18	67	1.35	M	1.70	F	G-
Pioneer	P1870YHR	66	0.90	M	1.85	F	G
AgriGold	A6499STX	66	1.10	M	2.50	F	
Armor	1887 Pro 2	67	0.65	M	2.38	F	
Local Seed	LC1577VT2P	67	0.70	M	1.50	F	
Phoenix	7402A4	66	0.50	M	1.73	F	
Local Seed	LCX20619.18	65	0.80	M	2.68	F	
Pioneer	P1662YHR	66	0.25	M	1.75	P	F
Dyna-Gro	D58VC65	66	0.80	M	2.45	P	F-
AgriGold	A647-90VT2PRO	67	0.45	M	2.45	P	
Armor	1667 Pro2	66	1.20	M	1.30	P	
Local Seed	LC1987VT2P	67	0.5	M	2.45	P	
NK Brand	NK 1808-3111	67	0.45	M	1.08	P	

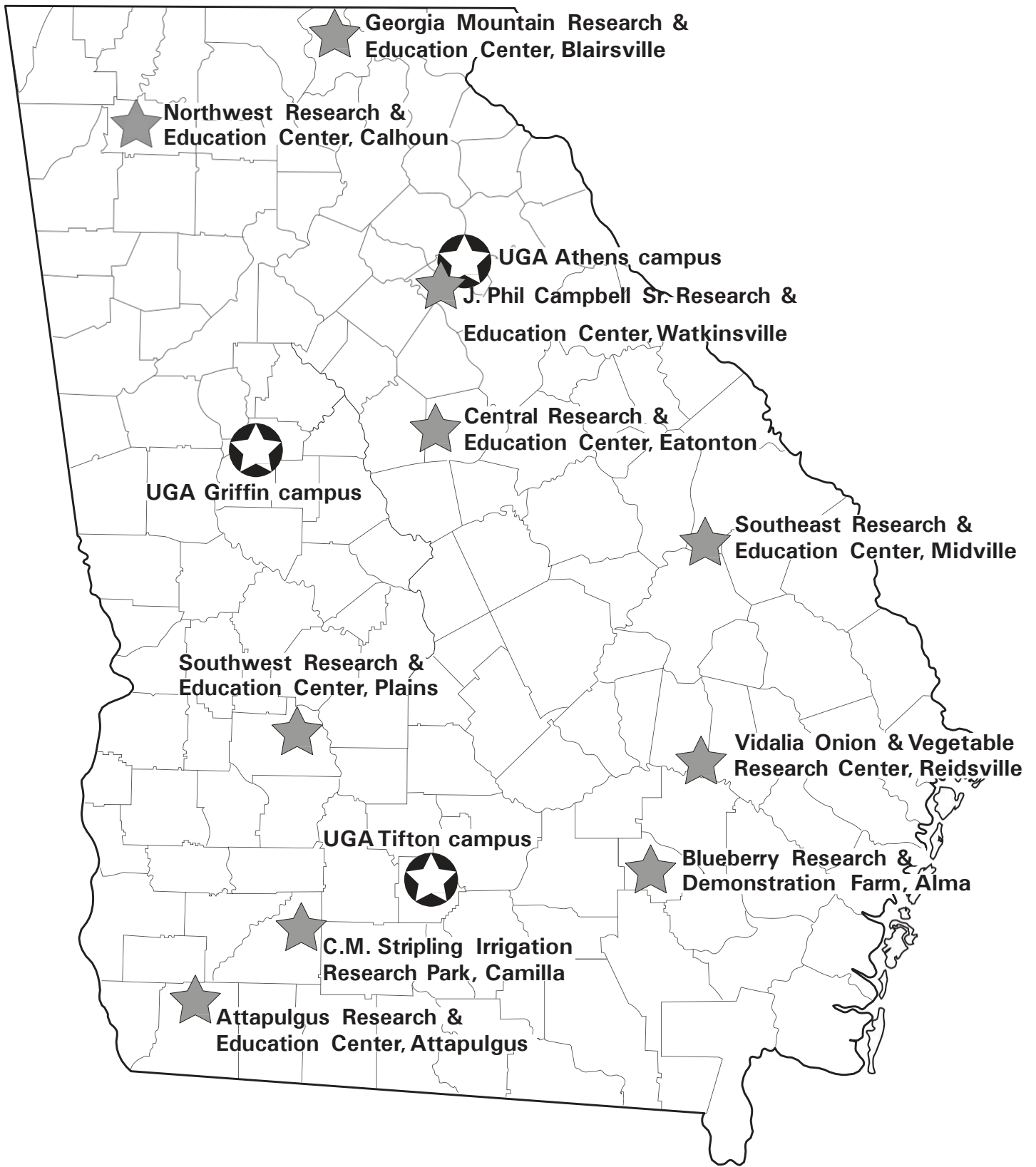
Ear-Feeding Insect Resistance in 53 Commercial Corn Hybrids, Tifton, Georgia, 2018 (Continued)

Company or Brand Name	Hybrid Name	Days to Anthesis ¹	Husk Extension cm	Husk Tightness ² rating	2018 FAW+CEW Damage ³ cm	Overall Resistance to Insect Damage ⁴	
						2018	2 or more years
Short-Season⁵							
Croplan	6640 VT3P	64	0.60	T	0.75	VG	G+
Terral Seed	REV25BHR26	66	0.65	M	0.93	VG	G
AgriGold	A6711VT2PRO	65	2.60	T	0	VG	
MorCorn	MC 4457	64	0.95	M	0.88	VG	
Local Seed	AV8614VYHR	64	1.67	M	0.47	VG	
AgraTech	85VT2P	67	1.10	M	1.00	G	
Augusta	1165 VT2PRO	65	2.13	M	0.43	G	VG-
Phoenix	6507A3	65	1.15	M	0.70	G	
Terral Seed	REV24BHR99	65	2.15	M	1.00	G	
NK Brand	NK 1573-3010	65	1.90	M	0.50	G	
Terral Seed	REV 23BHR55	67	0.60	M	2.23	F	F
MorCorn	MC 4319	65	1.10	M	2.10	F	G-
Armor	1447 Pro2	65	0.85	M	0.63	F	
Dyna-Gro	D54VC14	64	0.80	M	1.38	F	
Local Seed	AV8430VYHR	66	0.20	M	1.30	F	
Terral Seed	REV25BHR89	66	0.75	M	1.43	P	
AgriGold	A642-59VT2PRO	64	0.45	M	0.50	P	
AgriGold	A6544VT2PRO	64	1.10	M	2.40	P	
AgraTech	68VT2P	66	0.60	M	2.30	P	
Augusta	5065 GTCBLL	66	1.00	M	0.70	P	

- Days to anthesis is the number of days to flowering at Tifton, Georgia in 2018 after the hybrids were planted on March 29, 2018 ($n = 4$).
- Husk tightness: L = loose husk, M = medium-tight husk, and T = tight husk.
- FAW+CEW damage denotes the ear penetration (cm) by corn earworm (CEW) and fall armyworm (FAW) feeding with natural infestation.
- Categorization of insect resistance to key ear- and kernel-feeding insects (i.e., corn earworm, fall armyworm, stink bugs, sap beetles, pink scavenger caterpillar, and maize weevil) was based on principal component analysis results. The data were collected from 20 ears per hybrid (5 ears x 4 replications), where VG = very good, G = good, F = fair, and P = poor. The + and - signs denote the fluctuation of damage ratings in recent (two or more) years.
- Maturity denotes short- or medium-season maturity of a hybrid, which was provided by the seed company.

Sources of Seed for the 2018 Corn Hybrid Tests

Company or Brand Name	Seed Source
AgraTech	Grabow Seed Services, Inc., 6830 Lisa Lane, Dunwoody, GA 30338
AgriGold	AgriGold Hybrids, 5381 Akin Road, St. Francisville, IL 62460
Armor	Armor Seed, 2532 Alexander Drive, Jonesboro, AR 72401
Augusta	Augusta Seed, P.O. Box 899, Verona, VA 24482
Croplan	Winfield Solutions, 615 McCardle Road, Dothan, AL 36303
DEKALB	Monsanto Company, 800 N. Lindberg Blvd., St. Louis, MO 63167
Dyna-Gro	Crop Production Services, 100 Industrial Court, Colquitt, GA 39838
Local Seed	Local Seed Company, 802 Rozelle Street, Memphis, TN 38104
Masters Choice	Masters Choice, 305 West Vienna, Anna, IL 62906
MorCorn, Phoenix	SeedKoz, 1725 Windward Concourse, Suite 410, Alpharetta, GA 30005
NK Brand	Syngenta NK Brand Seeds, 4013 Fairmount Pike, Signal Mountain, TN 37377
Pioneer	Dow Dupont, 425 Abbeydale Way, Columbia, SC 29229
Terral Seed	Terral Seed, Inc., 111 Ellington Drive, Rayville, LA 71269



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