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2009 Maryland Corn Hybrid Performance Tests

<http://www.mdcrops.umd.edu>

Test Procedures

A fee-based, performance-testing program for corn hybrids is offered to seed corn companies by the Maryland Cooperative Extension and Agricultural Experiment Station at the University of Maryland. The Extension Specialist for grain and oil crops is director of these tests. The results from these replicated trials provide Maryland corn producers with agronomic performance information for the submitted corn hybrids that are grown at five Maryland locations (Table 1) considered to be representative of the state's geography and weather conditions. Table 1 summarizes the important agronomic and production information for each test site.

Hybrids tested during 2009 were submitted in three ways. First, participating seed companies (Table 2) were solicited for submission of hybrids. These entries ranged from currently available to experimental hybrids still under evaluation. Second, the Maryland Grain Producers' Utilization Board provided funding for the purchase of seed and to cover the costs for testing commonly grown hybrids that are familiar to farmers and that otherwise would not be tested in the fee-based testing program. The inclusion of the performance data for these benchmark hybrids allows for comparisons between newer hybrids and those that are more familiar. Third, the top performing hybrids in each of the respective tests for 2008 were included in the 2009 tests, gratis. These hybrids also are used as check hybrids.

During 2009, 83 hybrids were tested in one of three maturity group tests: (1) early season (26 hybrids; Table 4); (2) mid season (37 hybrids; Table 5); and (3) full season (20 hybrids; Table 6). Each company designated the maturity group for each hybrid they submitted. Check hybrids were included in each of the three tests. Many of the hybrids had Bt (European corn borer and corn rootworm) and/or Roundup-Ready technology incorporated in their genetics. A number were triple-stacked hybrids.

Hybrids were grouped and randomized according to maturity and replicated three times per location. The tests were planted with a modified, four-row John Deere 1750 planter equipped with coulters and trash-wheels for no-till planting. The plot planting modifications for each planter unit were manufactured by Clewell Precision Machine, Inc., Milton, PA. Each plot consisted of four rows spaced 30 inches apart and had a harvest length of 31 feet. The planter was set to drop 29,500 seeds/acre. Harvest population and number of lodged plants per plot were counted within one week of harvest and frequently occurred the same day as harvest. The center two rows of each plot were harvested to determine yield and harvest moisture of the grain. These data were collected with a HarvestMaster HM 1000 Grain Gauge and recorded on an Allegro Field PC.

Growing Season

The 2009 growing season was highlighted by wetter than normal conditions at all locations (Table 3) that hampered timely planting and harvest of the crop at some locations. Growing season precipitation ranged from 9-13% greater than the long-term average at Keedysville and Clarksville, respectively, to 22-26% greater at the three Eastern Shore locations (Table 3). Winter precipitation for much of the state was average to slightly below normal. Soil moisture conditions improved in April with above-normal rainfall allowing good seedbed moisture for planting. Planting was relatively slow to start until a late April warm spell allowed it to commence in earnest during the last week of April. Maryland Department of Agriculture (MDA) reported 26% of corn planted by May 3. Unfortunately, only one week of suitable weather prevailed before cooler, wet weather set in slowing corn planting progress to only 36% by May 10 (MDA) compared with five-year average of 62%. Planting progress improved during the next week (61% corn planted by May 17) but still lagged behind the normal pace of 78% of corn planted by mid-May (MDA). The planting pace was particularly slow west of the Chesapeake Bay (Central and Western Maryland counties) due to the cool, rainy weather. Planting progress continued slower than normal during the last two weeks of May with 88% of corn in-the-ground on May 31 compared with the five-year average of 94% by that date (MDA). And, the wet weather during mid-May impacted the early planted corn that was emerging. There were numerous reports of ponding in low areas of fields that caused poor seedling survival and caused some portions of fields or entire fields to be replanted. In addition a number of fields had visible yellowing of the seedlings indicating nitrogen deficiency that was caused by both denitrification and leaching losses of pre-plant nitrogen. Weather improved in early June allowing the crop to begin to grow at a more normal pace. Rainfall continued to be adequate to above normal during the first three weeks of June. It was at this time that a period of dry weather occurred and lasted until

widespread rainfall occurred the last week of July. Since soil moisture conditions were very good at the start of the dry period and because temperatures were slightly below normal, there were only a few reports of corn that suffered drought stress even though the dry period did coincide with the critical tasseling and pollination reproductive growth stages for much of the early planted corn. Rainfall during the remainder of the summer was timely. Temperatures continued to be slightly below normal resulting in a reduction of growing degree units accumulation and delayed start of harvest. Five-year average for harvest during the first half of September is ~20% (MDA). Only 4% of the corn was shelled by September 13 this year (MDA). Harvest continued at a slower than normal pace (primarily because of slightly later maturity and slow field dry-down) through the remainder of September with only 16% harvested by September 27 compared with a five-year average of 40%. And, the harvest pace continued to be slow with MDA reporting approximately 60% of corn shelled by October 18 compared with a five-year average of over 75%. Harvest progress was then slowed even more with the onset of rain events during the latter half of October. On November 1, MDA reported about 75% of the crop harvested compared with a five-year average of nearly 90%.

Test Results

The performance of the hybrids at the five testing locations in the 2009 State Corn Hybrid Tests are found in Tables 7-21. Averaged over the five locations, mean yields for the 26 early season hybrids was 188 bu/acre, 200 bu/acre for the 37 mid-season hybrids, and 198 bu/acre for the 20 full season hybrids. Corn planted prior to early May (three Eastern Shore locations; Tables 7-15) performed better than corn planted mid-late May (Clarksville and Keedysville; Tables 16-21). The average yield at the three Eastern Shore locations for early season, mid-season, and full season hybrids was 200, 204, and 213 bu/acre, respectively. These yields are excellent and reflect a frequently observed outcome when wetter than normal rainfall and little to no drought stress exists across a growing area. Even though this wet weather caused planting and harvesting problems, the majority of corn acreage in the state had a good growing environment throughout the season.

The agronomic characteristics reported are yield in bushels/acre at 15.5% moisture content, harvest moisture content, per cent lodging, and harvest populations. Lodging was virtually non-existent during 2009 except at Poplar Hill where an isolated, mid-summer storm was accompanied with high winds that caused significant amounts root lodging and green snap in the full season maturity group (Table 12).

A least significant difference (LSD) value is reported for the variables measured for each test where statistically significant differences ($p \leq 0.10$) for a variable were observed among hybrids. This mean separation test value has been calculated at the 10 percent probability level ($LSD_{0.10}$). The LSD can be used to compare two hybrids within the same test. For example, when the yield difference between two hybrids is greater than or equal to the LSD value, there is a 90% certainty that the difference is real rather than random variability. The coefficient of variation (CV) is a measurement of the variability at a test site. It is used as an indicator of the degree of precision for a test. In general, CV values below 15% for yield indicate that the precision for distinguishing yield differences was good.

The selection of a hybrid based solely on its performance at one location is not recommended. It is better to select a hybrid based upon its performance over a number of locations and/or years, if possible. In order to compare the performance of each hybrid across the five locations, relative yield tables for 2009 (Tables 22-24) are included. Relative yield is the ratio of the yield of a specific hybrid at a location to the mean yield of all the hybrids at that location expressed in percentage. A hybrid that has a relative yield score consistently greater than 100 across the testing locations is considered to have good stability.

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Additional Information

The inclusion of hybrids in these tests is not an endorsement by the University of Maryland. Advertising statements about a company's entries can be made as long as they are accurate statements about the data as published, with no reference to the other companies' hybrids. Statements similar to "See the Maryland Corn Hybrid Tests Agronomy Facts No. 54" or "Endorsement or recommendation by the University of Maryland is not implied" must accompany any information that is reproduced. Agronomy Facts No. 54 is found at the Maryland Cropping Systems webpage: <http://www.mdcrops.umd.edu>

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Table 1. 2009 Maryland corn test locations and plot management information.

Location	Soil type	Previous crop	Fertilizer	Herbicides	Insecticide	Tillage	Plant date	Harvest date	Farm crew
Wye Research & Education (R&E) Center Queenstown, MD	Mattapeake silt loam	Soybean	150-0-0 All N applied sidedress 6/4/09	Preplant: Strikeout @ 1 Qt./ac Post E.: Lexar 3 Qt/ac	None	No-till with trash wheels	30 Apr.	4 Oct.	Mark Sultenfuss Joe Street Reese Stafford
Lower Eastern Shore R&E Center Poplar Hill Farm Quantico, MD	Mattapex silt loam	Wheat/ Soybeans	0-0-70 lbs/a N-P-K/a Br. pre plant. 40-25-0-24 lbs/a NPKS Br. Preemergence. 100-0-0 lbs/a of N sidedress coulter injection	Early Pre Plant: 1.4 qts/a of Princep 4L + 1 pt/a of 2,4-D Ester + 1 pt/a of Gramoxone + 1pt/a LI 700 surfactant. Preemergence: Lumax 5.6FL @2.5 qts/a + Atrazine 4L @ ¼ qts/a	None	No-till with trash wheels	27 Apr.	21 Sept.	Ronald Mulford Fred Senkbeil Mike Senkbeil Vivian Calder
Lower Eastern Shore R&E Center Salisbury Farm Salisbury, MD	Fort Mott loamy sand	Wheat cover crop	500 lb/acre 0-0-20-7 + 0.2% B (4/7/09); 60 lb N/acre as 30% UAN (4/27/09); 60 lb N/acre as 30% UAN (5/28/09); 60 lb N/acre as 30% UAN (6/2/09); Total = 180-00-100-35 S+1 B	Roundup Weathermax @ 24 oz/acre + BiCep II Magnum 1.5 pt/acre (4/9/09); Lumax 2 pt/A + Atrazine 1 lb/A (5/19/09)	4 oz/acre Asana XL (4/9/09)	No-till with trash wheels	24 Apr.	18 Sept.	David Armentrout Mike Kelly James Lynch
Central Maryland R&E Center Clarksville Farm Clarksville, MD	Delanco silt loam	Soybean – Early test Corn Silage- Mid and Late Tests	184 lb/acre N as 30% UAN; 45 lb/acre P; 192 lb/acre K	2 qt/acre Bicep II Magnum; 1.5 pt/acre Gramoxone Inteon; 1 pt/acre surfactant; All applied pre-emerge.	None	No-till with trash wheels	19 May	20 Oct.	David Justice Timothy Ridgley
Western Maryland R&E Center Keedysville, MD	Hagerstown silt loam	Soybean	145 lb N acre ⁻¹ as UAN on 21 May	Lumax – 3 qt. acre ⁻¹ Simazine – 1 qt. acre ⁻¹ Gramoxone - 1 qt. acre ⁻¹ Salvo – 10 oz. acre ⁻¹	None	No-till with trash wheels	20 May	23 Oct.	Timothy Ellis Douglas Price

Table 2. Seed brands and companies represented in the 2009 Maryland corn hybrid tests.

Brand	Address
Augusta	Augusta Seed Corporation, 473 Tisdale Farm Lane, Staunton, VA 24401
Clarks	Clark Seeds ,Inc.,1467 Seven Hickories Rd, P.O.Box.219, Kenton,DE19955
DeKalb	Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63167
Doebler's	Doebler's PA Hybrids, Inc., 202 Tiadaghton Ave., Jersey Shore, PA 17740
Dyna-Gro	Crop Production Service, 1140 Sweet Road East, Aurora, NY 14052
Garst	Syngenta Seeds, P.O. Box 959, Minneapolis, MN 55440
Growmark FS	Growmark FS LLC., 308 N.E. Front St., Milford, DE 19963
Mycogen Seeds	Agrigenetics D/B/A Mycogen Seeds,P.O.Box:1286,Midland,MI 48641
NK Seeds	Syngenta Seeds, P.O. Box 959, Minneapolis, MN 55440
Pioneer	Pioneer Hi-bred International, Inc., PO Box 14453, Des Moines, IA 50306
Southern States	Southern States, 6606 West Broad St., Richmond, VA 23230
T.A. Seeds	T.A. Seeds LLC., PO Box 300, Avis, PA 17721
Trisler	Trisler Seeds Inc., 3274E. 800 North Rd., Fairmount, IL 61841

Table 3. Precipitation received at each location where the Maryland Corn Hybrid Tests were conducted during 2009.

Month	Wye	Poplar Hill	Salisbury ¹	Keedysville	Clarksville
	-----Inches-----				
April	4.83	4.06	4.6 (0.0)	3.35	4.93
May	4.29	3.87	4.8 (0.5)	5.03	7.28
June	5.94	3.77	7.42 (0.5)	4.17	5.26
July	2.93	3.52	3.62 (3.3)	6.22	0.78
August	5.90	8.29	6.18 (1.1)	2.76	4.97
September	3.74	3.74	3.4 (0.0)	1.81	4.16
2009 Total	27.63	27.25	30.03 (5.4)	23.34	27.38
Long Term Average	22.63	22.32	23.88	21.4	24.16

¹The number in parentheses following the precipitation total for each month at Salisbury indicates the amount of supplemental irrigation that was applied to the site.

Table 4. Relative maturity, genetic traits, and seed treatments for early-season hybrids tested in Maryland during 2009.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits¹	Seed Treatment
Augusta	A28-52GTCBLL	102	GTCBLL	Poncho 250
Augusta²	A06-07CBLL	107	CBLL	Poncho 250
Augusta	A5457	107	Conventional	Poncho 250
Augusta	A5337EVT3	108	RRCBRW	Poncho 250
Augusta	A54-58CBLL	108	CBLL	Poncho 250
Dekalb	DKC52-59 (VT3)	102	VT3	Poncho 250
Dekalb	DKC54-16 (VT3)	104	VT3	Poncho 250
Dekalb	DKC55-07 (VT3)	105	VT3	Poncho 250
Dekalb	DKC57-50 (VT3)	107	VT3	Poncho 250
Doebler's PA Hybrids, Inc.	RPM 615HRQ	106	CB,RW,RR,LL	Cruiser 250
Doebler's PA Hybrids, Inc.	RPM 628HRQ	106	CB,RW,RR,LL	Cruiser 250
Dyna-Gro	56R29	106	HXT/RR/LL	Poncho 250
Dyna-Gro	V4683VT3	106	VT3	Poncho 250
Dyna-Gro	56K60	108	RR	Poncho 250
Garst	85V87 GT/CB/LL	107	Agrisure GT/CB/LL	Cruiser 250
NK Seed	N52A-CB/LL/RW	104	Agrisure CB/LL/RW	Cruiser 250
NK Seeds	N48S-CB/LL/RW	103	Agrisure CB/LL/RW	Cruiser 250
NK Seeds	N61P-GT/CB/LL	108	Agrisure GT/CB/LL	Cruiser 250
Pioneer	35F44	105	HXX,LL,RR	Cruiser 250
Pioneer	35F38	105	Conventional	Cruiser 250
Southern States	538VT3	105	VT3	Poncho 250
Southern States	574VT3	108	VT3	Poncho 250
T.A. Seeds	TA 545-19	104	GTCBLL	Poncho 250
T.A. Seeds	TA 575-19	107	GTCBLL	Poncho 250
Trisler	T-4S61VT3	106	YGVVT3	Poncho 250
Trisler	T-5N51VT3	108	YGVVT3	Poncho 250

¹Genetic trait codes are:

CB and HX for Bt (*Bacillus thuringiensis*) events for European corn borer resistance;

RR and GT for glyphosate (Roundup) herbicide tolerance;

Conventional for no biotechnology linked genetic enhancement;

RW for Bt event for corn rootworm resistance;

LL for glufosinate (Liberty) herbicide tolerance;

VT3 for YieldGard triple stack for corn borer, corn rootworm and glyphosate herbicide tolerance.

HXX and HXT for Herculex I (HX1) trait and the Herculex RW (HXRW) trait that confer resistance to protection for European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; suppresses corn earworm; and also provide protection from larval injury caused by western corn rootworm, northern corn rootworm and Mexican corn rootworms.

²Hybrids in **bold print** are check hybrids that were included with funding from the Maryland Grain Producers' Utilization Board.

Table 5. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in Maryland during 2009.

Brand/ Company Name	Hybrid Name	Relative Maturity	Genetic Traits ¹	Seed Treatment
Augusta	A54-59CBLL	109	CBLL	Poncho 250
Augusta	A06-06CBLL	111	CBLL	Poncho 250
Augusta	A07-20CBLL	110	BTLL	Poncho 250
Clarks	CL110	110	Conventional	not identified
Dekalb	DKC60-51 (VT3)	110	VT3	Poncho 250
Dekalb	DKC61-04 (VT3)	111	VT3	Poncho 250
Dekalb	DKC61-69 (VT3)	111	VT3	Poncho 250
Dekalb	DKC62-54 (VT3)	112	VT3	Poncho 250
Dekalb²	DKC63-42 (VT3)	113	VT3	Poncho 250
Dekalb	DKC63-14 (VT3)	113	VT3	Poncho 250
Dekalb	DKC 62-99	112	YGCBR2	Poncho 250
Doebler's PA Hybrids, Inc.	RPM725HRQ	113	CB,RW,RR,LL	Cruiser 250
Dyna-Gro	57V40	111	VT3	Poncho 250
Dyna-Gro	57V38	113	VT3	Poncho 250
Garst	84U57 CB/LL/RW	110	Agrisure CB/LL/RW	Cruiser 250
Garst	83X61 3000GT	113	Agrisure GT/CB/LL/RW	Cruiser 250
Growmark FS	6296VT3	112	YGCB, YGRW,RR	Poncho 250
Growmark FS	6388VT3	113	YGCB, YGRW,RR	Poncho 250
Mycogen	2P686	110	HXX,LL,RR2	Maxim XL; Cruiser 5FS; Apron XL; Dynasty 100FS
Mycogen	2Y739	113	HXX,LL,RR2	Maxim XL; Cruiser 5FS; Apron XL; Dynasty 100FS
Mycogen	2V732	113	YGV3; RR2	Maxim XL; Cruiser 5FS; Apron XL; Dynasty 100FS
Mycogen	2Y547	113	YGV3; RR2	Maxim XL; Cruiser 5FS; Apron XL; Dynasty 100FS
NK Seeds	N69L-CB/LL	110	Agrisure CB/LL	Cruiser 250
NK Seeds	N68B-CB/LL/RW	110	Agrisure CB/LL/RW	Cruiser 250
NK Seeds	N73V-3000GT	113	Agrisure GT/CB/LL/RW	Cruiser 250
Pioneer	33N58	113	HXLLRR2	Poncho 250
Pioneer	33B54	112	CB, RR2	Poncho 250
T.A. Seeds	TA 607-20	110	GTCBLLRW	Poncho 250
T.A. Seeds	TA 688-11	111	CBLL	Poncho 250
T.A. Seeds	TA 700-15	112	HXT(CBLLRW)	Poncho 250
T.A. Seeds	TA 717-19	113	GTCBLL	Poncho 250
T.A. Seeds	TA 717-19	113	GTCBLL	Poncho 250
Trisler	T-6A08VT3	109	YGV3	Poncho 250
Trisler	T-6N52VT3	110	YGV3	Poncho 250
Trisler	T-7A01VT3	111	YGV3	Poncho 250
Trisler	T-7A14VT3	111	YGV3	Poncho 250
Trisler	T-7N88VT3	112	YGV3	Poncho 250

¹Genetic trait codes are:

- CB and HX for Bt (*Bacillus thuringiensis*) events for European corn borer resistance;
- RR and GT for glyphosate (Roundup) herbicide tolerance;
- Conventional for no biotechnology linked genetic enhancement;
- RW for Bt event for corn rootworm resistance;
- LL for glufosinate (Liberty) herbicide tolerance;
- VT3 for YieldGard triple stack for corn borer, corn rootworm and glyphosate herbicide tolerance.

HXX and HXT for Herculex I (HX1) trait and the Herculex RW (HXRW) trait that confer resistance to protection for European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; suppresses corn earworm; and also provide protection from larval injury caused by western corn rootworm, northern corn rootworm and Mexican corn rootworms.

²Hybrids in **bold print** are check hybrids that were included with funding from the Maryland Grain Producers' Utilization Board.

Table 6. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in Maryland during 2009.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits¹	Seed Treatment
Augusta²	A007	115	Conventional	Poncho 250
Augusta	A61-64GTCBLL	114	GTCBLL	Poncho 250
Augusta	A61-66CBLL	115	CBLL	Poncho 250
Augusta	A62-67CBLL	115	CBLL	Poncho 250
Augusta	A73-64GTCBLL	114	GTCBLL	Poncho 250
Augusta	A76-64CB	116	CB	Poncho 250
Clarks	CL215	115	Conventional	not identified
Doebler's PA Hybrids, Inc.	721XY	114	Conventional	Poncho 1250
Doebler's PA Hybrids, Inc.	RPM728HRQ	114	CB,RR,LL	Cruiser 250
Dyna-Gro	57V21	115	VT3	Poncho 250
Dyna-Gro	58V72	115	VT3	Poncho 250
Garst	82R03 CB/LL	114	Agrisure CB/LL	Cruiser 250
Garst	83A22 CB/LL	114	Agrisure CB/LL	Cruiser 250
Mycogen	2T789	114	HXX,LL,RR2	Maxim XL; Cruiser 5FS; Apron XL; Dynasty 100FS
NK Seeds	N77H-CB/LL	114	Agrisure CB/LL	Cruiser 250
Pioneer	32T85	115	HXXLLRR2	Cruiser 250
Southern States	731CL	115	Clearfield	Poncho 250
T.A. Seeds	TA 765-00	115	Conventional	Poncho 250
T.A. Seeds	TA 780-01	115	YGCB	Poncho 250
Trisler	T-8N52VT3	114	YGVVT3	Poncho 250

¹Genetic trait codes are:

CB and HX for Bt (*Bacillus thuringiensis*) events for European corn borer resistance;

RR and GT for glyphosate (Roundup) herbicide tolerance;

Conventional for no biotechnology linked genetic enhancement;

RW for Bt event for corn rootworm resistance;

LL for glufosinate (Liberty) herbicide tolerance;

VT3 for YieldGard triple stack for corn borer, corn rootworm and glyphosate herbicide tolerance.

HXX and HXT for Herculex I (HX1) trait and the Herculex RW (HXRW) trait that confer resistance to

protection for European corn borer, southwestern corn borer, black cutworm, fall armyworm, western bean cutworm,

lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; suppresses corn earworm; and also provide

protection from larval injury caused by western corn rootworm, northern corn rootworm and Mexican corn rootworms.

²Hybrids in **bold print** are check hybrids that were included with funding from the Maryland Grain Producers' Utilization Board.

Table 7. Performance of early season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A06-07CBLL	CBLL	201	15.8	0	103.2	26001
Augusta	A28-52GTCBLL	GTCBLL	203*	15.8	0	104.0	28030
Augusta	A5337EVT3	RRCBRW	184	18.8	0	94.5	25530
Augusta	A5457	Conventional	195	17.2	0	99.8	27259
Augusta	A54-58CBLL	CBLL	199	18.6	0	102.0	22836
Dekalb	DKC52-59 (VT3)	VT3	221*	12.6	1	113.5	28991
Dekalb	DKC54-16 (VT3)	VT3	207*	15.1	0	106.2	26990
Dekalb	DKC55-07 (VT3)	VT3	198	14.6	0	101.7	27849
Dekalb	DKC57-50 (VT3)	VT3	215*	16.9	0	110.0	27168
Doebler's PA Hybrids, Inc.	RPM 615HRQ	CB,RW,RR,LL	201	17.8	0	103.2	26835
Doebler's PA Hybrids, Inc.	RPM 628HRQ	CB,RW,RR,LL	181	18.2	0	93.0	28802
Dyna-Gro	56K60	RR	169	15.2	1	86.9	30121
Dyna-Gro	56R29	HXT/RR/LL	172	15.5	0	88.3	27639
Dyna-Gro	V4683VT3	VT3	197	15.7	1	101.1	25930
Garst	85V87 GT/CB/LL	Agrisure GT/CB/LL	197	16.2	1	101.0	27964
NK Seeds	N48S-CB/LL/RW	Agrisure CB/LL/RW	191	13.4	3	97.7	27594
NK Seeds	N52A-CB/LL/RW	Agrisure CB/LL/RW	191	14.8	1	98.0	26554
NK Seeds	N61P-GT/CB/LL	Agrisure GT/CB/LL	200	13.7	0	102.6	27249
Pioneer	35F38	Conventional	200	14.3	3	102.5	25204
Pioneer	35F44	HXX,LL,RR	192	15.8	1	98.6	27122
Southern States	538VT3	VT3	185	16.3	1	94.8	27842
Southern States	574VT3	VT3	210*	16.3	0	107.6	27697
T.A. Seeds	TA 545-19	GTCBLL	163	14.9	5	83.4	26751
T.A. Seeds	TA 575-19	GTCBLL	187	18.3	0	95.8	26612
Trisler	T-4S61VT3	YGVVT3	215*	17.3	1	110.4	25423
Trisler	T-5N51VT3	YGVVT3	212*	16.3	0	108.6	27657
	Trial Mean		195	16	0.6		27027
	LSD_{0.10}		19.4	1.4	NS		NS
	CV%		7.3	6.5	393		8

¹See Table 4 for hybrid type code designations for early-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 8. Performance of mid-season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	A06-06CBLL	CBLL	202	19.0	0	104.8	23186
Augusta	A07-20CBLL	BTLL	187	21.7	0	97.1	24458
Augusta	A54-59CBLL	CBLL	201	16.4	0	104.0	24934
Clarks	CL110	Non-GMO	203	17.1	1	105.1	24459
Dekalb⁴	DKC 62-99	YGCBRR2	189	18.6	0	98.0	24507
Dekalb	DKC60-51 (VT3)	VT3	178	18.5	0	92.0	26270
Dekalb	DKC61-04 (VT3)	VT3	193	19.8	0	100.2	25120
Dekalb	DKC61-69 (VT3)	VT3	217	17.6	0	112.3	25175
Dekalb	DKC62-54 (VT3)	VT3	187	18.0	1	96.7	25644
Dekalb	DKC63-14 (VT3)	VT3	211	18.7	2	109.2	24862
Dekalb	DKC63-42 (VT3)	VT3	217	19.2	0	112.5	25586
Doebler's PA Hybrids, Inc.	RPM725HRQ	CB,RW,RR,LL	182	19.9	0	94.4	26638
Dyna-Gro	57V38	VT3	181	18.1	1	93.8	22256
Dyna-Gro	57V40	VT3	170	17.9	1	88.1	25348
Garst	83X61 3000GT	Agrisure GT/CB/LL/RW	189	19.6	0	97.7	24983
Garst	84U57 CB/LL/RW	Agrisure CB/LL/RW	198	18.4	0	102.5	26708
Growmark FS	6296VT3	YGCB, YGRW,RR	179	20.1	0	93.0	25502
Growmark FS	6388VT3	YGCB, YGRW,RR	197	20.8	0	102.3	25536
Mycogen	2P686	HXX,LL,RR2	188	18.5	0	97.3	24675
Mycogen	2V732	YGVT3; RR2	192	19.4	0	99.5	25072
Mycogen	2Y547	YGVT3; RR2	192	15.9	0	99.4	24993
Mycogen	2Y739	HXX,LL,RR2	204	18.8	0	105.9	28254
NK Seeds	N68B-CB/LL/RW	Agrisure CB/LL/RW	189	18.0	1	98.1	24044
NK Seeds	N69L-CB/LL	Agrisure CB/LL	178	19.0	1	92.4	24101
NK Seeds	N73V-3000GT	Agrisure GT/CB/LL/RW	198	17.5	0	102.5	26450
Pioneer	33B54	CB, RR2	200	20.0	0	103.7	24518
Pioneer	33N58	HXLLRR2	186	19.7	0	96.5	24346
T.A. Seeds	TA 607-20	GTCBLLRW	179	18.6	0	92.8	24538
T.A. Seeds	TA 688-11	CBLL	180	19.2	1	93.0	24013
T.A. Seeds	TA 700-15	HXT(CBLLRW)	181	21.1	1	93.5	28342
T.A. Seeds	TA 717-19	GTCBLL	195	21.2	0	101.3	25993
T.A. Seeds	TA 717-19	GTCBLL	209	20.2	0	108.1	26638
Trisler	T-6A08VT3	YGVT3	194	19.3	0	100.5	26362
Trisler	T-6N52VT3	YGVT3	208	18.0	0	107.7	26801
Trisler	T-7A01VT3	YGVT3	192	18.9	0	99.4	23139
Trisler	T-7A14VT3	YGVT3	197	16.6	1	102.1	25695
Trisler	T-7N88VT3	YGVT3	186	19.5	0	96.4	22919
	Trial Mean		193	18.9	0.3		25185
	LSD_{0.10}		NS	1.8	0.9		NS
	CV%		8.5	6.9	227		8.4

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 9. Performance of full season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A007	Conventional	212	22.3	0	100.4	28342
Augusta	A61-64GTCBLL	GTCBLL	211	22.3	0	100.3	24579
Augusta	A61-66CBLL	CBLL	199	22.7	0	94.4	28557
Augusta	A62-67CBLL	CBLL	224*	20.2	0	106.1	26539
Augusta	A73-64GTCBLL	GTCBLL	206	20.7	0	97.9	28637
Augusta	A76-64CB	CB	200	21.8	0	95.0	28309
Clarks	CL215	Conventional	219*	21.4	0	104.1	28317
Doebler's PA Hybrids, Inc.	Doebler's 721XY	Conventional	215*	21.7	0	102.1	29165
Doebler's PA Hybrids, Inc.	RPM728HRQ	CB,RR,LL	218*	21.4	0	103.5	27608
Dyna-Gro	57V21	VT3	202	20.2	0	95.7	29328
Dyna-Gro	58V72	VT3	205	20.2	0	97.3	28719
Garst	82R03 CB/LL	Agrisure CB/LL	216*	21.0	0	102.3	25671
Garst	83A22 CB/LL	Agrisure CB/LL	229*	20.4	1	108.5	25298
Mycogen	2T789	HXX,LL,RR2	207	22.8	0	98.4	28223
NK Seeds	N77H-CB/LL	Agrisure CB/LL	226*	21.4	1	107.1	26306
Pioneer	32T85	HXXLLRR2	207	21.5	0	98.2	29925
Southern States	731CL	Clearfield	202	19.5	0	96.0	25843
T.A. Seeds	TA 765-00	Conventional	209	22.8	0	99.1	28412
T.A. Seeds	TA 780-01	YGCB	211	22.1	0	100.1	25773
Trisler	T-8N52VT3	YGVVT3	198	18.4	1	94.0	26145
	Trial Mean		211	21.2	0.15		27474
	LSD_{0.10}		14.5	1.5	NS		2248
	CV%		5	5.1	363		5.9

¹See Table 6 for hybrid type code designations for full season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 10. Performance of early season maturity hybrids valuated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A06-07CBLL	CBLL	199	21.6	2	101.4	26404
Augusta	A28-52GTCBLL	GTCBLL	213	20.1	0	108.2	27501
Augusta	A5337EVT3	RRCBRW	188	21.9	25	95.7	26571
Augusta	A5457	Conventional	221	20.2	3	112.5	26713
Augusta	A54-58CBLL	CBLL	199	19.6	4	101.2	26040
Dekalb	DKC52-59 (VT3)	VT3	202	17.5	0	102.8	29634
Dekalb	DKC54-16 (VT3)	VT3	185	20.9	3	93.9	26571
Dekalb	DKC55-07 (VT3)	VT3	195	18.2	1	99.2	29345
Dekalb	DKC57-50 (VT3)	VT3	203	21.2	0	103.0	27735
Doebler's PA Hybrids, Inc.	RPM 615HRQ	CB,RW,RR,LL	213	18.3	1	108.2	28105
Doebler's PA Hybrids, Inc.	RPM 628HRQ	CB,RW,RR,LL	186	22.3	0	94.4	26938
Dyna-Gro	56K60	RR	191	17.6	1	97.1	28445
Dyna-Gro	56R29	HXT/RR/LL	197	19.6	12	100.1	28597
Dyna-Gro	V4683VT3	VT3	198	21.7	1	100.5	25913
Garst	85V87 GT/CB/LL	Agrisure GT/CB/LL	187	19.4	1	95.2	26752
NK Seeds	N48S-CB/LL/RW	Agrisure CB/LL/RW	196	19.6	0	99.8	25330
NK Seeds	N52A-CB/LL/RW	Agrisure CB/LL/RW	198	17.8	4	100.6	27421
NK Seeds	N61P-GT/CB/LL	Agrisure GT/CB/LL	204	17.5	5	103.5	28587
Pioneer	35F38	Conventional	178	21.6	3	90.2	29870
Pioneer	35F44	HXX,LL,RR	193	18.0	1	97.9	28620
Southern States	538VT3	VT3	198	20.5	0	100.7	27134
Southern States	574VT3	VT3	187	19.7	1	95.1	26969
T.A. Seeds	TA 545-19	GTCBLL	184	18.9	1	93.6	27539
T.A. Seeds	TA 575-19	GTCBLL	201	20.8	0	101.9	25054
Trisler	T-4S61VT3	YGVT3	199	21.6	1	101.3	27415
Trisler	T-5N51VT3	YGVT3	201	22.2	3	102.0	25629
	Trial Mean		197	19.9	2.8		27352
	LSD_{0.10}		NS	2.8	6.1		NS
	CV%		6.9	10.1	158		7.2

¹See Table 4 for hybrid type code designations for early-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 11. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	A06-06CBLL	CBLL	217*	20.0	0	108.1	28133
Augusta	A07-20CBLL	BTLL	199	22.0	2	98.9	29589
Augusta	A54-59CBLL	CBLL	199	15.8	2	99.2	29263
Clarks	CL110	Conventional	191	20.2	3	95.2	25872
Dekalb⁴	DKC 62-99	YGCBRR2	205*	19.6	0	102.3	25219
Dekalb	DKC60-51 (VT3)	VT3	194	20.6	1	96.6	27304
Dekalb	DKC61-04 (VT3)	VT3	214*	21.0	0	106.7	27517
Dekalb	DKC61-69 (VT3)	VT3	185	21.7	1	92.2	28058
Dekalb	DKC62-54 (VT3)	VT3	218*	20.7	0	108.3	28999
Dekalb	DKC63-14 (VT3)	VT3	203*	20.7	1	101.3	28309
Dekalb	DKC63-42 (VT3)	VT3	202*	21.4	0	100.4	27329
Doebler's PA Hybrids, Inc.	RPM725HRQ	CB,RW,RR,LL	187	22.4	1	93.0	25834
Dyna-Gro	57V38	VT3	213*	20.6	1	105.8	26814
Dyna-Gro	57V40	VT3	209*	18.3	2	104.1	28233
Garst	83X61 3000GT	Agrisure GT/CB/LL/RW	205*	22.0	6	102.3	27630
Garst	84U57 CB/LL/RW	Agrisure CB/LL/RW	211*	18.3	0	105.3	28233
Growmark FS	6296VT3	YGCB, YGRW,RR	206*	19.7	0	102.7	25985
Growmark FS	6388VT3	YGCB, YGRW,RR	203*	22.9	0	101.0	29062
Mycogen	2P686	HXX,LL,RR2	189	18.0	1	94.0	27153
Mycogen	2V732	YGVT3; RR2	217*	19.9	1	108.3	28082
Mycogen	2Y547	YGVT3; RR2	193	16.6	0	96.3	26048
Mycogen	2Y739	HXX,LL,RR2	178	22.2	3	88.7	28095
NK Seeds	N68B-CB/LL/RW	Agrisure CB/LL/RW	211*	17.9	0	104.9	28760
NK Seeds	N69L-CB/LL	Agrisure CB/LL	198	19.6	2	98.6	26739
NK Seeds	N73V-3000GT	Agrisure GT/CB/LL/RW	180	21.9	8	89.7	27266
Pioneer	33B54	CB, RR2	190	21.6	0	94.8	26927
Pioneer	33N58	HXLLRR2	195	20.1	1	96.9	26575
T.A. Seeds	TA 607-20	GTCBLLRW	181	21.1	1	90.3	24892
T.A. Seeds	TA 688-11	CBLL	193	20.2	1	96.0	27442
T.A. Seeds	TA 700-15	HXT(CBLLRW)	195	20.8	0	97.2	24089
T.A. Seeds	TA 717-19	GTCBLL	207*	23.0	1	103.2	25834
T.A. Seeds	TA 717-19	GTCBLL	200	23.5	0	99.6	27266
Trisler	T-6A08VT3	YGVT3	208*	20.9	0	103.4	26575
Trisler	T-6N52VT3	YGVT3	213*	20.5	0	105.9	24842
Trisler	T-7A01VT3	YGVT3	200	21.5	0	99.8	28120
Trisler	T-7A14VT3	YGVT3	206*	20.0	1	102.4	27642
Trisler	T-7N88VT3	YGVT3	189	22.3	2	93.9	26688
	Trial Mean		201	20.5	1.1		27199
	LSD_{0.10}		17.1	2.3	NS		NS
	CV%		6.3	8.1	247		7.7

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 12. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A007	Conventional	215*	22.9	18	103.9	28370
Augusta	A61-64GTCBLL	GTCBLL	218*	22.7	12	105.3	28616
Augusta	A61-66CBLL	CBLL	203	24.5	12	98.1	26756
Augusta	A62-67CBLL	CBLL	164	21.6	50	79.2	25445
Augusta	A73-64GTCBLL	GTCBLL	218*	21.7	5	105.3	29016
Augusta	A76-64CB	CB	211*	23.5	8	101.6	29040
Clarks	CL215	Conventional	217*	22.4	2	104.6	27801
Doebler's PA Hybrids, Inc.	Doebler's 721XY	Conventional	219*	22.6	17	105.9	28610
Doebler's PA Hybrids, Inc.	RPM728HRQ	CB,RR,LL	208	24.9	9	100.2	27140
Dyna-Gro	57V21	VT3	229*	23.9	1	110.5	28887
Dyna-Gro	58V72	VT3	198	21.5	27	95.4	27617
Garst	82R03 CB/LL	Agrisure CB/LL	201	24.0	11	97.2	29040
Garst	83A22 CB/LL	Agrisure CB/LL	222*	21.2	6	107.3	27552
Mycogen	2T789	HXX,LL,RR2 (quad stack)	184	23.9	28	88.9	27384
NK Seeds	N77H-CB/LL	Agrisure CB/LL	219*	24.5	20	105.6	30262
Pioneer	32T85	HXXLLRR2	199	23.3	1	96.1	27648
Southern States	731CL	Clearfield	172	23.8	33	82.8	28189
T.A. Seeds	TA 765-00	Conventional	212*	22.3	23	102.3	28515
T.A. Seeds	TA 780-01	YGCB	209	21.7	23	100.9	26250
Trisler	T-8N52VT3	YGVT3	227*	20.7	0	109.6	24106
	Trial Mean		207	22.9	15.3		27768
	LSD_{0.10}		19.7	1.5	19.3		NS
	CV%		6.9	4.6	91		7.3

¹See Table 6 for hybrid type code designations for full season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 13. Performance of early-season hybrids evaluated at Lower Eastern Shore Research and Education Center, Salisbury Facility, Salisbury, MD during 2009.

Brand/ Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A06-07CBLL	CBLL	211*	17.4	0	102.0	27344
Augusta	A28-52GTCBLL	GTCBLL	217*	15.7	0	105.2	27773
Augusta	A5337EVT3	RRCBRW	220*	20.9	0	106.5	29944
Augusta	A5457	Conventional	227*	20.2	0	109.6	28376
Augusta	A54-58CBLL	CBLL	208	17.1	0	100.6	27584
Dekalb	DKC52-59 (VT3)	VT3	218*	18.3	0	105.3	28408
Dekalb	DKC54-16 (VT3)	VT3	213*	18.3	0	103.1	28433
Dekalb	DKC55-07 (VT3)	VT3	202	19.1	0	97.5	28326
Dekalb	DKC57-50 (VT3)	VT3	214*	19.8	0	103.7	27868
Doebler's PA Hybrids, Inc.	RPM 615HRQ	CB,RW,RR,LL	210	21.0	0	101.4	28895
Doebler's PA Hybrids, Inc.	RPM 628HRQ	CB,RW,RR,LL	195	21.3	0	94.4	27538
Dyna-Gro	56K60	RR	211*	20.1	0	102.0	28654
Dyna-Gro	56R29	HXT/RR/LL	212*	18.8	1	102.7	27428
Dyna-Gro	V4683VT3	VT3	183	18.6	0	88.4	26113
Garst	85V87 GT/CB/LL	Agrisure GT/CB/LL	192	18.4	1	92.8	28219
NK Seeds	N48S-CB/LL/RW	Agrisure CB/LL/RW	182	16.6	1	88.1	26723
NK Seeds	N52A-CB/LL/RW	Agrisure CB/LL/RW	198	16.6	0	95.6	27431
NK Seeds	N61P-GT/CB/LL	Agrisure GT/CB/LL	203	18.0	0	98.3	28192
Pioneer	35F38	Conventional	191	17.3	3	92.4	27055
Pioneer	35F44	HXX,LL,RR	211*	17.8	0	101.9	29034
Southern States	538VT3	VT3	193	19.9	0	93.4	27992
Southern States	574VT3	VT3	216*	17.5	0	104.5	27254
T.A. Seeds	TA 545-19	GTCBLL	201	17.3	0	97.4	27047
T.A. Seeds	TA 575-19	GTCBLL	215*	17.4	0	104.1	27485
Trisler	T-4S61VT3	YGVT3	209	20.1	0	101.0	28884
Trisler	T-5N51VT3	YGVT3	206	19.8	0	99.6	28295
	Trial Mean		207	18.6	0.2		27921
	LSD_{0.10}		16.8	1.6	NS		NS
	CV%		5.9	6.3	412		4

¹See Table 4 for hybrid type code designations for early-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 14. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	A06-06CBLL	CBLL	222*	20.6	0	101.6	27327
Augusta	A07-20CBLL	BTLL	231*	19.6	0	105.5	28402
Augusta	A54-59CBLL	CBLL	201	17.2	0	91.9	28242
Clarks	CL110	Conventional	206	20.1	0	94.3	27402
Dekalb⁴	DKC 62-99	YGCBRR2	208	21.0	0	95.1	27708
Dekalb	DKC60-51 (VT3)	VT3	235*	17.4	0	107.5	28651
Dekalb	DKC61-04 (VT3)	VT3	206	17.2	0	94.1	27237
Dekalb	DKC61-69 (VT3)	VT3	221*	18.2	0	101.2	27402
Dekalb	DKC62-54 (VT3)	VT3	215	18.9	0	98.2	28340
Dekalb	DKC63-14 (VT3)	VT3	242*	20.1	1	110.5	27918
Dekalb	DKC63-42 (VT3)	VT3	215	19.8	0	98.1	28716
Doebler's PA Hybrids, Inc.	RPM725HRQ	CB,RW,RR,LL	228*	18.7	0	104.3	28768
Dyna-Gro	57V38	VT3	218	20.4	0	99.6	28620
Dyna-Gro	57V40	VT3	228*	18.4	0	104.2	27005
Garst	83X61 3000GT	Agrisure GT/CB/LL/RW	228*	20.3	1	104.2	27131
Garst	84U57 CB/LL/RW	Agrisure CB/LL/RW	205	19.8	0	93.5	29086
Growmark FS	6296VT3	YGCB, YGRW,RR	229*	19.2	0	104.9	26915
Growmark FS	6388VT3	YGCB, YGRW,RR	221*	21.1	1	100.8	28107
Mycogen	2P686	HXX,LL,RR2	201	17.9	1	91.7	29007
Mycogen	2V732	YGVT3; RR2	236*	19.2	0	108.0	28368
Mycogen	2Y547	YGVT3; RR2	204	16.2	0	93.5	28413
Mycogen	2Y739	HXX,LL,RR2	206	19.6	0	94.0	28582
NK Seeds	N68B-CB/LL/RW	Agrisure CB/LL/RW	219	19.7	0	100.1	28677
NK Seeds	N69L-CB/LL	Agrisure CB/LL	219	18.2	2	100.2	27398
NK Seeds	N73V-3000GT	Agrisure GT/CB/LL/RW	231*	21.3	2	105.7	28786
Pioneer	33B54	CB, RR2	215	19.6	0	98.2	28767
Pioneer	33N58	HXLLRR2	226*	19.6	0	103.5	29459
T.A. Seeds	TA 607-20	GTCBLLRW	195	17.2	0	89.3	25069
T.A. Seeds	TA 688-11	CBLL	219	19.0	0	100.2	28284
T.A. Seeds	TA 700-15	HXT(CBLLRW)	231*	20.1	0	105.5	29102
T.A. Seeds	TA 717-19	GTCBLL	234*	21.2	0	106.8	28331
T.A. Seeds	TA 717-19	GTCBLL	215	19.3	0	98.3	28857
Trisler	T-6A08VT3	YGVT3	210	17.6	0	96.1	27609
Trisler	T-6N52VT3	YGVT3	231*	18.4	0	105.8	27724
Trisler	T-7A01VT3	YGVT3	215	19.0	0	98.3	28577
Trisler	T-7A14VT3	YGVT3	204	18.9	0	93.3	27488
Trisler	T-7N88VT3	YGVT3	233*	19.2	0	106.5	28604
	Trial Mean		219	19.2	0.2		28119
	LSD_{0.10}		22	2.3	NS		1509
	CV%		7.3	8.9	386		3.9

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 15. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A007	Conventional	232	18.0	1	104.9	28442
Augusta	A61-64GTCBLL	GTCBLL	237	18.9	0	107.4	28064
Augusta	A61-66CBLL	CBLL	231	19.3	1	104.6	29535
Augusta	A62-67CBLL	CBLL	204	18.0	0	92.4	27107
Augusta	A73-64GTCBLL	GTCBLL	208	16.8	0	94.0	28808
Augusta	A76-64CB	CB	211	19.0	1	95.6	28865
Clarks	CL215	Conventional	210	20.2	4	95.1	27195
Doebler's PA Hybrids, Inc.	Doebler's 721XY	Conventional	230	18.2	7	104.1	27384
Doebler's PA Hybrids, Inc.	RPM728HRQ	CB,RR,LL	226	20.4	0	102.2	28507
Dyna-Gro	57V21	VT3	213	18.6	0	96.5	29587
Dyna-Gro	58V72	VT3	225	17.6	0	101.6	27677
Garst	82R03 CB/LL	Agrisure CB/LL	227	19.0	0	102.8	28446
Garst	83A22 CB/LL	Agrisure CB/LL	218	17.8	1	98.7	26882
Mycogen	2T789	HXX,LL,RR2	217	18.1	0	98.1	26691
NK Seeds	N77H-CB/LL	Agrisure CB/LL	229	19.1	0	103.7	28543
Pioneer	32T85	HXXLLRR2	223	19.2	0	101.0	27566
Southern States	731CL	Clearfield	217	17.4	3	98.3	28489
T.A. Seeds	TA 765-00	Conventional	226	19.1	4	102.1	29190
T.A. Seeds	TA 780-01	YGCB	230	18.3	0	104.0	27759
Trisler	T-8N52VT3	YGVVT3	218	16.6	0	98.7	28395
	Trial Mean		221	18.5	1		28157
	LSD_{0.10}		NS	1.6	2.2		NS
	CV%		7.4	6.2	157		5

¹See Table 6 for hybrid type code designations for full season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 16. Performance of early season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A06-07CBLL	CBLL	179	13.1	2	99.0	27946
Augusta	A28-52GTCBLL	GTCBLL	173	12.0	0	95.4	27936
Augusta	A5337EVT3	RRCBRW	192*	15.7	3	106.0	28345
Augusta	A5457	Conventional	189*	14.2	2	104.4	28860
Augusta	A54-58CBLL	CBLL	199*	13.4	1	110.1	28832
Dekalb	DKC52-59 (VT3)	VT3	160	10.5	0	88.2	30015
Dekalb	DKC54-16 (VT3)	VT3	188*	13.5	1	103.7	28911
Dekalb	DKC55-07 (VT3)	VT3	183	13.6	1	100.9	26851
Dekalb	DKC57-50 (VT3)	VT3	203*	13.9	1	112.1	27702
Doebler's PA Hybrids, Inc.	RPM 615HRQ	CB,RW,RR,LL	174	14.4	1	95.9	29510
Doebler's PA Hybrids, Inc.	RPM 628HRQ	CB,RW,RR,LL	177	16.1	0	97.6	27781
Dyna-Gro	56K60	RR	164	13.8	0	90.6	27028
Dyna-Gro	56R29	HXT/RR/LL	165	11.4	3	91.3	28107
Dyna-Gro	V4683VT3	VT3	182	13.4	0	100.3	26457
Garst	85V87 GT/CB/LL	Agrisure GT/CB/LL	189*	12.1	1	104.5	28743
NK Seeds	N48S-CB/LL/RW	Agrisure CB/LL/RW	171	12.1	3	94.3	26768
NK Seeds	N52A-CB/LL/RW	Agrisure CB/LL/RW	180	12.2	1	99.5	27587
NK Seeds	N61P-GT/CB/LL	Agrisure GT/CB/LL	182	11.9	0	100.6	25943
Pioneer	35F38	Conventional	178	12.7	1	98.2	24950
Pioneer	35F44	HXX,LL,RR	183	13.1	0	101.3	28503
Southern States	538VT3	VT3	175	13.1	2	96.5	28492
Southern States	574VT3	VT3	185*	13.7	2	102.3	28134
T.A. Seeds	TA 545-19	GTCBLL	195*	12.2	1	107.6	28636
T.A. Seeds	TA 575-19	GTCBLL	162	14.4	0	89.3	27028
Trisler	T-4S61VT3	YGVT3	172	13.1	2	95.1	29250
Trisler	T-5N51VT3	YGVT3	188*	14.4	2	104.1	28534
	Means		181	13.2	1		27956
	LSD_{0.10}		19.8	1.3	NS		NS
	CV%		7.97	6.93	132		5.52

¹See Table 4 for hybrid type code designations for early-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 17. Performance of mid-season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	A06-06CBLL	CBLL	210*	15.7	2	101.8	28321
Augusta	A07-20CBLL	BTLL	219*	15.8	0	106.6	30114
Augusta	A54-59CBLL	CBLL	210*	14.6	1	102.0	29740
Clarks	CL110	Conventional	207	14.9	1	100.5	27107
Dekalb⁴	DKC 62-99	YGCBRR2	230*	16.8	2	111.6	29117
Dekalb	DKC60-51 (VT3)	VT3	225*	15.2	1	109.6	27943
Dekalb	DKC61-04 (VT3)	VT3	209*	17.1	0	101.6	28361
Dekalb	DKC61-69 (VT3)	VT3	203	14.0	1	98.6	29157
Dekalb	DKC62-54 (VT3)	VT3	212*	14.8	2	103.1	29171
Dekalb	DKC63-14 (VT3)	VT3	203	15.4	0	98.7	29596
Dekalb	DKC63-42 (VT3)	VT3	215*	15.6	0	104.5	27846
Doebler's PA Hybrids, Inc.	RPM725HRQ	CB,RW,RR,LL	212*	19.2	1	103.1	27717
Dyna-Gro	57V38	VT3	222*	14.7	2	108.1	27483
Dyna-Gro	57V40	VT3	198	14.7	3	96.2	26642
Garst	83X61 3000GT	Agrisure GT/CB/LL/RW	217*	16.3	5	105.5	28117
Garst	84U57 CB/LL/RW	Agrisure CB/LL/RW	174	14.5	0	84.7	27903
Growmark FS	6296VT3	YGCB, YGRW,RR	216*	16.6	2	105.2	29638
Growmark FS	6388VT3	YGCB, YGRW,RR	207	14.7	6	100.8	28654
Mycogen	2P686	HXX,LL,RR2	203	16.0	1	98.8	28371
Mycogen	2V732	YGVT3; RR2	190	13.1	0	92.4	28363
Mycogen	2Y547	YGVT3; RR2	189	12.0	1	91.7	30433
Mycogen	2Y739	HXX,LL,RR2	185	13.9	0	89.9	30443
NK Seeds	N68B-CB/LL/RW	Agrisure CB/LL/RW	191	15.2	0	92.9	29066
NK Seeds	N69L-CB/LL	Agrisure CB/LL	190	14.9	2	92.4	27287
NK Seeds	N73V-3000GT	Agrisure GT/CB/LL/RW	232*	15.1	4	112.7	28561
Pioneer	33B54	CB, RR2	201	18.1	1	97.9	27754
Pioneer	33N58	HXLRR2	205	14.8	1	99.7	27848
T.A. Seeds	TA 607-20	GTCBLLRW	183	13.7	0	88.8	26062
T.A. Seeds	TA 688-11	CBLL	218*	16.0	9	106.0	27313
T.A. Seeds	TA 700-15	HXT(CBLLRW)	209	15.7	1	101.6	28925
T.A. Seeds	TA 717-19	GTCBLL	211*	17.3	2	102.6	28092
T.A. Seeds	TA 717-19	GTCBLL	204	16.5	0	98.9	28750
Trisler	T-6A08VT3	YGVT3	193	14.7	0	93.7	27906
Trisler	T-6N52VT3	YGVT3	203	14.8	1	98.8	29171
Trisler	T-7A01VT3	YGVT3	195	16.6	3	94.7	27853
Trisler	T-7A14VT3	YGVT3	214*	15.0	0	104.0	27529
Trisler	T-7N88VT3	YGVT3	212*	15.1	0	102.9	28305
	Means		206	15.4	1		28668
	LSD_{0.10}		23.4	1.2	2.2		NS
	CV%		8.32	5.94	145		6.64

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 18. Performance of full season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A007	Conventional	212*	17.9	3	107.7	29937
Augusta	A61-64GTCBLL	GTCBLL	216*	16.2	4	109.8	28045
Augusta	A61-66CBLL	CBLL	203*	15.3	1	103.3	26921
Augusta	A62-67CBLL	CBLL	177	13.4	0	90.2	28004
Augusta	A73-64GTCBLL	GTCBLL	184	14.9	1	93.7	27110
Augusta	A76-64CB	CB	205*	16.6	0	104.0	27475
Clarks	CL215	Non-GMO	184	16.8	3	93.6	24170
Doebler's PA Hybrids, Inc.	Doebler's 721XY	Conventional	179	17.2	3	91.0	24249
Doebler's PA Hybrids, Inc.	RPM728HRQ	CB,RR,LL	185	14.5	3	94.2	30076
Dyna-Gro	57V21	VT3	189	17.2	1	96.2	26834
Dyna-Gro	58V72	VT3	195*	16.0	4	99.1	29560
Garst	82R03 CB/LL	Agrisure CB/LL	215*	15.1	2	109.1	28417
Garst	83A22 CB/LL	Agrisure CB/LL	199*	14.8	0	100.9	27551
Mycogen	2T789	HXX,LL,RR2	185	15.3	0	94.0	27703
NK Seeds	N77H-CB/LL	Agrisure CB/LL	206*	15.2	1	104.6	24464
Pioneer	32T85	HXXLLRR2	207*	17.1	0	105.1	29142
Southern States	731CL	Clearfield	174	14.4	2	88.7	26913
T.A. Seeds	TA 765-00	Conventional	203*	16.6	2	103.3	26384
T.A. Seeds	TA 780-01	YGCB	211*	16.4	0	107.0	28303
Trisler	T-8N52VT3	YGVVT3	195	15.3	0	99.2	27284
	Means		197	15.8	2		27427
	LSD_{0.10}		21.3	1.3	2.6		2663
	CV%		7.85	6.03	140		7.02

¹See Table 6 for hybrid type code designations for full season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 19. Performance of early season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type¹	Yield (bu/A)²	Moisture %	Lodging³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A06-07CBLL	CBLL	169	19.2	0	107.1	28378
Augusta	A28-52GTCBLL	GTCBLL	151	15.7	2	95.3	26644
Augusta	A5337EVT3	RRCBRW	164	19.5	2	103.8	29393
Augusta	A5457	Conventional	168	17.2	1	106.1	26254
Augusta	A54-58CBLL	CBLL	182	18.7	0	115.0	25578
Dekalb	DKC52-59 (VT3)	VT3	141	13.9	3	88.9	26982
Dekalb	DKC54-16 (VT3)	VT3	156	15.1	2	98.7	28074
Dekalb	DKC55-07 (VT3)	VT3	143	18.9	0	90.5	27046
Dekalb	DKC57-50 (VT3)	VT3	159	19.8	1	100.5	27877
Doebler's PA Hybrids, Inc.	RPM 615HRQ	CB,RW,RR,LL	161	17.8	1	101.6	28215
Doebler's PA Hybrids, Inc.	RPM 628HRQ	CB,RW,RR,LL	167	19.4	0	105.8	27800
Dyna-Gro	56K60	RR	156	18.9	0	98.6	27611
Dyna-Gro	56R29	HXT/RR/LL	147	17.3	2	93.1	25766
Dyna-Gro	V4683VT3	VT3	159	15.0	1	100.6	28152
Garst	85V87 GT/CB/LL	Agrisure GT/CB/LL	159	17.2	1	100.5	25475
NK Seeds	N48S-CB/LL/RW	Agrisure CB/LL/RW	140	14.0	1	88.3	26456
NK Seeds	N52A-CB/LL/RW	Agrisure CB/LL/RW	164	13.7	4	104.0	26833
NK Seeds	N61P-GT/CB/LL	Agrisure GT/CB/LL	176	16.9	1	111.1	28113
Pioneer	35F38	Conventional	142	17.0	6	89.9	27398
Pioneer	35F44	HXX,LL,RR	168	16.4	1	106.2	29007
Southern States	538VT3	VT3	160	15.3	0	101.3	28138
Southern States	574VT3	VT3	138	17.6	7	87.2	27436
T.A. Seeds	TA 545-19	GTCBLL	158	14.8	0	100.1	24824
T.A. Seeds	TA 575-19	GTCBLL	158	19.3	0	99.7	25351
Trisler	T-4S61VT3	YGVT3	156	17.3	6	98.8	28553
Trisler	T-5N51VT3	YGVT3	161	19.2	0	101.8	26982
	Trial Mean		158	17.1	1.6		27244
	LSD_{0.10}		NS	2.2	3.5		2039
	CV%		11.17	9.42	160		5.45

¹See Table 4 for hybrid type code designations for early-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 20. Performance of mid-season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	A06-06CBLL	CBLL	174	25.3	0	95.9	25538
Augusta	A07-20CBLL	BTLL	220	29.5	0	121.2	25216
Augusta	A54-59CBLL	CBLL	155	25.4	1	85.6	25698
Clarks	CL110	Conventional	154	23.7	4	84.8	26219
Dekalb⁴	DKC 62-99	YGCBRR2	188	28.5	1	104.0	24603
Dekalb	DKC60-51 (VT3)	VT3	215	26.8	0	118.9	26243
Dekalb	DKC61-04 (VT3)	VT3	159	25.4	0	87.9	25940
Dekalb	DKC61-69 (VT3)	VT3	230	21.5	0	126.7	28328
Dekalb	DKC62-54 (VT3)	VT3	166	23.8	0	91.4	25146
Dekalb	DKC63-14 (VT3)	VT3	205	25.5	2	113.0	24568
Dekalb	DKC63-42 (VT3)	VT3	194	28.1	0	106.9	28377
Doebler's PA Hybrids, Inc.	RPM725HRQ	CB,RW,RR,LL	170	25.9	1	93.8	22380
Dyna-Gro	57V38	VT3	189	25.0	0	104.1	26377
Dyna-Gro	57V40	VT3	205	23.6	0	113.3	25151
Garst	83X61 3000GT	Agrisure GT/CB/LL/RW	175	27.0	0	96.4	23657
Garst	84U57 CB/LL/RW	Agrisure CB/LL/RW	172	24.3	0	94.9	27404
Growmark FS	6296VT3	YGCB, YGRW,RR	204	27.8	1	112.8	25877
Growmark FS	6388VT3	YGCB, YGRW,RR	183	27.6	0	101.0	21251
Mycogen	2P686	HXX,LL,RR2	150	25.5	0	82.9	27216
Mycogen	2V732	YGVT3; RR2	179	25.7	1	98.6	24116
Mycogen	2Y547	YGVT3; RR2	152	21.9	1	84.1	22248
Mycogen	2Y739	HXX,LL,RR2	185	25.2	2	101.9	26728
NK Seeds	N68B-CB/LL/RW	Agrisure CB/LL/RW	187	27.4	0	103.1	24664
NK Seeds	N69L-CB/LL	Agrisure CB/LL	162	25.1	1	89.4	23684
NK Seeds	N73V-3000GT	Agrisure GT/CB/LL/RW	197	26.4	0	108.9	24939
Pioneer	33B54	CB, RR2	146	23.6	3	80.4	25512
Pioneer	33N58	HXLLRR2	169	28.9	0	93.1	21660
T.A. Seeds	TA 607-20	GTCBLLRW	193	26.3	1	106.3	23505
T.A. Seeds	TA 688-11	CBLL	167	25.5	1	92.1	22457
T.A. Seeds	TA 700-15	HXT(CBLLRW)	183	26.4	0	101.1	27404
T.A. Seeds	TA 717-19	GTCBLL	188	27.2	0	103.5	23316
T.A. Seeds	TA 717-19	GTCBLL	167	27.7	0	92.4	26036
Trisler	T-6A08VT3	YGVT3	179	25.3	0	98.7	23842
Trisler	T-6N52VT3	YGVT3	195	22.8	0	107.8	23980
Trisler	T-7A01VT3	YGVT3	174	24.4	0	95.9	25947
Trisler	T-7A14VT3	YGVT3	191	24.1	1	105.2	25060
Trisler	T-7N88VT3	YGVT3	187	25.4	0	103.2	24875
	Trial Mean		180	25.9	0.6		25607
	LSD_{0.10}		NS	2.5	1.4		NS
	CV%		18.8	6.98	186		11.2

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 21. Performance of full season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta⁴	A007	Conventional	125	30.3	2	80.6	23773
Augusta	A61-64GTCBLL	GTCBLL	177	28.7	0	114.0	22969
Augusta	A61-66CBLL	CBLL	213*	29.3	0	137.2	25709
Augusta	A62-67CBLL	CBLL	152	28.7	1	98.3	23584
Augusta	A73-64GTCBLL	GTCBLL	155	28.8	0	99.8	24591
Augusta	A76-64CB	CB	123	30.0	0	79.3	21420
Clarks	CL215	Conventional	158	29.8	4	101.6	22883
Doebler's PA Hybrids, Inc.	Doebler's 721XY	Conventional	134	26.6	1	86.7	21855
Doebler's PA Hybrids, Inc.	RPM728HRQ	CB,RR,LL	169	28.7	1	108.8	26217
Dyna-Gro	57V21	VT3	146	29.2	0	94.0	22870
Dyna-Gro	58V72	VT3	157	24.6	0	101.1	22813
Garst	82R03 CB/LL	Agrisure CB/LL	151	30.0	0	97.3	21978
Garst	83A22 CB/LL	Agrisure CB/LL	165	27.7	0	106.4	22122
Mycogen	2T789	HXX,LL,RR2	167	27.9	0	107.6	25235
NK Seeds	N77H-CB/LL	Agrisure CB/LL	173	27.8	0	111.4	21605
Pioneer	32T85	HXXLLRR2	167	29.3	1	107.8	24023
Southern States	731CL	Clearfield	159	28.0	2	102.2	20509
T.A. Seeds	TA 765-00	Conventional	140	28.7	0	90.2	23463
T.A. Seeds	TA 780-01	YGCB	154	30.2	0	99.2	25047
Trisler	T-8N52VT3	YGVT3	158	25.2	0	102.1	25852
	Trial Mean		155	28.5	0.5		24222
	LSD_{0.10}		28.1	NS	1.2		NS
	CV%		12.8	6.6	166		7.07

¹See Table 6 for hybrid type code designations for full season hybrids.

²Yields are reported at 15.5% moisture content.

³Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.

⁴Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

*Hybrids with an asterisk are not significantly different for yield compared to the top-yielding hybrid at this location.

Table 22. Relative yield scores for early-season hybrids evaluated at five locations in Maryland during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type	Relative Yield					
			Average 5 Locations	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta^{1,3}	A06-07CBLL	CBLL	102.5	103.2	102.0*	101.4	107.1	99.0
Augusta	A28-52GTCBLL	GTCBLL	101.6	104.0*	105.2*	108.2	95.3	95.4
Augusta	A5337EVT3	RRCBRW	101.3	94.5	106.5*	95.7	103.8	106.0*
Augusta	A5457	Conventional	106.5	99.8	109.6*	112.5	106.1	104.4*
Augusta²	A54-58CBLL	CBLL	105.8	102.0	100.6	101.2	115.0	110.1*
Dekalb	DKC52-59 (VT3)	VT3	99.7	113.5*	105.3*	102.8	88.9	88.2
Dekalb	DKC54-16 (VT3)	VT3	101.1	106.2*	103.1*	93.9	98.7	103.7*
Dekalb	DKC55-07 (VT3)	VT3	98.0	101.7	97.5	99.2	90.5	100.9
Dekalb	DKC57-50 (VT3)	VT3	105.9	110.0*	103.7*	103.0	100.5	112.1*
Doebler's PA Hybrids, Inc.	RPM 615HRQ	CB,RW,RR,LL	102.1	103.2	101.4	108.2	101.6	95.9
Doebler's PA Hybrids, Inc.	RPM 628HRQ	CB,RW,RR,LL	97.0	93.0	94.4	94.4	105.8	97.6
Dyna-Gro	56K60	RR	95.0	86.9	102.0*	97.1	98.6	90.6
Dyna-Gro	56R29	HXT/RR/LL	95.1	88.3	102.7*	100.1	93.1	91.3
Dyna-Gro	V4683VT3	VT3	98.2	101.1	88.4	100.5	100.6	100.3
Garst	85V87 GT/CB/LL	Agrisure GT/CB/LL	98.8	101.0	92.8	95.2	100.5	104.5*
NK Seeds	N48S-CB/LL/RW	Agrisure CB/LL/RW	93.6	97.7	88.1	99.8	88.3	94.3
NK Seeds	N52A-CB/LL/RW	Agrisure CB/LL/RW	99.5	98.0	95.6	100.6	104.0	99.5
NK Seeds	N61P-GT/CB/LL	Agrisure GT/CB/LL	103.2	102.6	98.3	103.5	111.1	100.6
Pioneer	35F38	Conventional	95.5	102.5	92.4	90.2	89.9	98.2
Pioneer	35F44	HXX,LL,RR	101.2	98.6	101.9*	97.9	106.2	101.3
Southern States	538VT3	VT3	97.3	94.8	93.4	100.7	101.3	96.5
Southern States	574VT3	VT3	99.3	107.6*	104.5*	95.1	87.2	102.3*
T.A. Seeds	TA 545-19	GTCBLL	96.4	83.4	97.4	93.6	100.1	107.6*
T.A. Seeds	TA 575-19	GTCBLL	98.2	95.8	104.1*	101.9	99.7	89.3
Trisler	T-4S61VT3	YGVT3	101.3	110.4*	101.0	101.3	98.8	95.1
Trisler	T-5N51VT3	YGVT3	103.2	108.6*	99.6	102.0	101.8	104.1*
	Trial Mean (bu/acre)		188	195	207	197	158	181

¹Hybrids in **bold** are check hybrids. They are included through funding provided by the Maryland Grain Producers' Utilization Board.

²Hybrids highlighted in yellow have relative yield ratings of 100 or greater at all five testing locations.

³Hybrids highlighted in blue have relative yield ratings of 100 or greater at 4-5 testing locations.

*Hybrids with an asterisk are not significantly different for yield compared with the top-yielding hybrid at this location.

Table 23. Relative yield scores for mid-season hybrids evaluated at five locations in Maryland during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type	Relative Yield %					
			Average 5 Locations	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta ³	A06-06CBLL	CBLL	102.4	104.8	101.6*	108.1*	95.9	101.8*
Augusta	A07-20CBLL	BTLL	105.9	97.1	105.5*	98.9	121.2	106.6*
Augusta	A54-59CBLL	CBLL	96.5	104.0	91.9	99.2	85.6	102.0*
Clarks	CL110	Conventional	96.0	105.1	94.3	95.2	84.8	100.5
Dekalb¹	DKC 62-99	YGCBRR2	102.2	98.0	95.1	102.3*	104.0	111.6*
Dekalb	DKC60-51 (VT3)	VT3	104.9	92.0	107.5*	96.6	118.9	109.6*
Dekalb	DKC61-04 (VT3)	VT3	98.1	100.2	94.1	106.7*	87.9	101.6*
Dekalb	DKC61-69 (VT3)	VT3	106.2	112.3	101.2*	92.2	126.7	98.6
Dekalb	DKC62-54 (VT3)	VT3	99.5	96.7	98.2	108.3*	91.4	103.1*
Dekalb	DKC63-14 (VT3)	VT3	106.5	109.2	110.5*	101.3*	113.0	98.7
Dekalb	DKC63-42 (VT3)	VT3	104.5	112.5	98.1	100.4*	106.9	104.5*
Doebler's PA Hybrids, Inc.	RPM725HRQ	CB,RW,RR,LL	97.7	94.4	104.3*	93.0	93.8	103.1*
Dyna-Gro	57V38	VT3	102.3	93.8	99.6	105.8*	104.1	108.1*
Dyna-Gro	57V40	VT3	101.2	88.1	104.2*	104.1*	113.3	96.2
Garst	83X61 3000GT	Agrisure GT/CB/LL/RW	101.2	97.7	104.2*	102.3*	96.4	105.5*
Garst	84U57 CB/LL/RW	Agrisure CB/LL/RW	96.2	102.5	93.5	105.3*	94.9	84.7
Growmark FS	6296VT3	YGCB, YGRW,RR	103.7	93.0	104.9*	102.7*	112.8	105.2*
Growmark FS ²	6388VT3	YGCB, YGRW,RR	101.2	102.3	100.8*	101.0*	101.0	100.8
Mycogen	2P686	HXX,LL,RR2	92.9	97.3	91.7	94.0	82.9	98.8
Mycogen	2V732	YGV3; RR2	101.4	99.5	108.0*	108.3*	98.6	92.4
Mycogen	2Y547	YGV3; RR2	93.0	99.4	93.5	96.3	84.1	91.7
Mycogen	2Y739	HXX,LL,RR2	96.1	105.9	94.0	88.7	101.9	89.9
NK Seeds	N68B-CB/LL/RW	Agrisure CB/LL/RW	99.8	98.1	100.1	104.9*	103.1	92.9
NK Seeds	N69L-CB/LL	Agrisure CB/LL	94.6	92.4	100.2	98.6	89.4	92.4
NK Seeds	N73V-3000GT	Agrisure GT/CB/LL/RW	103.9	102.5	105.7*	89.7	108.9	112.7*
Pioneer	33B54	CB, RR2	95.0	103.7	98.2	94.8	80.4	97.9
Pioneer	33N58	HXLLRR2	97.9	96.5	103.5*	96.9	93.1	99.7
T.A. Seeds	TA 607-20	GTCBLLRW	93.5	92.8	89.3	90.3	106.3	88.8
T.A. Seeds	TA 688-11	CBLL	97.5	93.0	100.2	96.0	92.1	106.0*
T.A. Seeds	TA 700-15	HXT(CBLLRW)	99.8	93.5	105.5*	97.2	101.1	101.6
T.A. Seeds	TA 717-19	GTCBLL	103.5	101.3	106.8*	103.2*	103.5	102.6*
T.A. Seeds	TA 717-19	GTCBLL	99.5	108.1	98.3	99.6	92.4	98.9
Trisler	T-6A08VT3	YGV3	98.5	100.5	96.1	103.4*	98.7	93.7
Trisler	T-6N52VT3	YGV3	105.2	107.7	105.8*	105.9*	107.8	98.8
Trisler	T-7A01VT3	YGV3	97.6	99.4	98.3	99.8	95.9	94.7
Trisler	T-7A14VT3	YGV3	101.4	102.1	93.3	102.4*	105.2	104.0*
Trisler	T-7N88VT3	YGV3	100.6	96.4	106.5*	93.9	103.2	102.9*
Trial Mean (bu/acre)			200	193	219	201	180	206

¹Hybrids in **bold** are check hybrids. They are included through funding provided by the Maryland Grain Producers' Utilization Board.

²Hybrids highlighted in yellow have relative yield ratings of 100 or greater at all five testing locations.

³Hybrids highlighted in blue have relative yield ratings of 100 or greater at 4-5 testing locations.

*Hybrids with an asterisk are not significantly different for yield compared with the top-yielding hybrid at this location.

Table 24. Relative yield scores for full-season hybrids evaluated at five locations in Maryland during 2009.

Brand/Company Name	Hybrid Name	Hybrid Type	Relative Yield %					
			Average 5 Locations	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta ^{1,3}	A007	Conventional	99.5	100.4	104.9	103.9*	80.6	107.7*
Augusta ²	A61-64GTCBLL	GTCBLL	107.4	100.3	107.4	105.3*	114.0	109.8*
Augusta	A61-66CBLL	CBLL	107.5	94.4	104.6	98.1	137.2*	103.3*
Augusta	A62-67CBLL	CBLL	93.2	106.1*	92.4	79.2	98.3	90.2
Augusta	A73-64GTCBLL	GTCBLL	98.1	97.9	94.0	105.3*	99.8	93.7
Augusta	A76-64CB	CB	95.1	95.0	95.6	101.6*	79.3	104.0*
Clarks	CL215	Conventional	99.8	104.1*	95.1	104.6*	101.6	93.6
Doebler's PA Hybrids, Inc.	Doebler's 721XY	Conventional	98.0	102.1*	104.1	105.9*	86.7	91.0
Doebler's PA Hybrids, Inc.	RPM728HRQ	CB,RR,LL	101.8	103.5*	102.2	100.2	108.8	94.2
Dyna-Gro	57V21	VT3	98.6	95.7	96.5	110.5*	94.0	96.2
Dyna-Gro	58V72	VT3	98.9	97.3	101.6	95.4	101.1	99.1*
Garst	82R03 CB/LL	Agrisure CB/LL	101.7	102.3*	102.8	97.2	97.3	109.1*
Garst	83A22 CB/LL	Agrisure CB/LL	104.4	108.5*	98.7	107.3*	106.4	100.9*
Mycogen	2T789	HXX,LL,RR2	97.4	98.4	98.1	88.9	107.6	94.0
NK Seeds	N77H-CB/LL	Agrisure CB/LL	106.5	107.1*	103.7	105.6*	111.4	104.6*
Pioneer	32T85	HXXLLRR2	101.6	98.2	101.0	96.1	107.8	105.1*
Southern States	731CL	Clearfield	93.6	96.0	98.3	82.8	102.2	88.7
T.A. Seeds	TA 765-00	Conventional	99.4	99.1	102.1	102.3*	90.2	103.3*
T.A. Seeds	TA 780-01	YGCB	102.2	100.1	104.0	100.9	99.2	107.0*
Trisler	T-8N52VT3	YGVVT3	100.7	94.0	98.7	109.6*	102.1	99.2*
Trial Mean (bu/acre)			198	211	221	207	155	197

¹Hybrids in **bold** are check hybrids. They are included through funding provided by the Maryland Grain Producers' Utilization Board.

²Hybrids highlighted in yellow have relative yield ratings of 100 or greater at all five testing locations.

³Hybrids highlighted in blue have relative yield ratings of 100 or greater at 4-5 testing locations.

*Hybrids with an asterisk are not significantly different for yield compared with the top-yielding hybrid at this location.