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2010 Maryland Corn Hybrid Performance Tests

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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 about 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 2010 were submitted in four 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 some 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 2009 were included in the 2010 tests, gratis. These hybrids also are used as check hybrids. A fourth set of hybrids were included at the request of Drs. Galen Dively and William Lamp, faculty members of the University of Maryland's Department of Entomology, for purposes of evaluating European corn borer activity. Two isoline sets of hybrids (Table 5) represented Dekalb and Mycogen brands. In addition, three non-GMO hybrids (Tables 4, 5, and 6) were provided by T.A. Seeds, LLC. and Augusta Seed Corporation. Data for all hybrids tested for this purpose are designated throughout this report.

During 2010, 91 hybrids were tested in one of three maturity group tests: (1) early season (22 hybrids; Table 4); (2) mid season (41 hybrids; Table 5); and (3) full season (28 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 tested had genetic traits for insect protection and/or herbicide tolerance. Those traits for each hybrid tested are found in Tables 4-6.

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.

An unfortunate management mistake occurred at three locations. At the Lower Eastern Shore R&E Center (LESREC) Poplar Hill and Salisbury Farms and at the Western Maryland R&E Center (WMREC), the test plots were sprayed with glyphosate. Fortunately, this occurred early enough at Poplar Hill and Salisbury to allow replanting of the non-RR hybrids. However, at WMREC, replanting of non-RR hybrids did not occur. Separate tables for the replant tests are included in this report.

Growing Season

Farmers entered the 2010 growing season with adequate, to in many cases, surplus soil moisture. This was the result of a very wet 2009 fall followed by 2009/2010 winter that was highlighted by record snowfall events in December and again in February. Before corn planting could begin in 2010, many farmers had to address ruts that had been left in the fields during soybean harvest. Above normal temperatures (reaching 90° F in early April) warmed and dried the soil allowing planting to start by mid-April. Suitable weather allowed planting to progress at about twice the normal pace during April with over 50% of the crop to be in the ground by May 1 as reported by

MDA. Good planting weather continued during early to mid-May allowing 85% of the intended acreage to be planted by May 16. Five year average for corn planted by mid-May is 71%. Good soil moisture and temperatures that were well above average allowed corn to germinate quickly with MDA reporting crop emergence to be over 75% by May 23. Planting of the crop was 97% complete by June 1, a pace that was 5% quicker than the 5-year average.

The state's crop began June with nearly 90% reported to be in good to excellent condition. This was the result of the good to excellent soil moisture conditions created by the wet fall and winter and the warmer than normal planting season. However, a sign of the weather to be encountered for the remainder of the growing season was becoming apparent as June temperatures averaged 3-12 degrees higher than normal and rainfall became scarce in some regions of the state. According to MDA's weekly report, at the end of June 95% of the state was reporting soil moisture conditions that were short to very short. Crop growth responded to the warmer than usual temperatures with 50% of the crop reaching the tassel and silk stages by the end of June. The crop entered its reproductive growth stages with 60% of it described to be in fair to very poor condition. Cooler temperatures and rainfall were essential during the first two weeks of July for the crop to improve. Unfortunately, temperatures remained 5-10 degrees above normal and the rainfall that did occur was spotty; a few areas got it while many areas of the state were experiencing drought. By August 1, MDA reported 85% of the crop to be in fair to very poor condition. By then, it was too late for any precipitation that was received to make a difference. Maryland's corn farmers were going to experience a short crop.

The summer's warm days and nights forced the crop to progress through its growth stages at a very fast pace during 2010. By September 1, 90% of the silage crop had been chopped and placed in the silos. Some of the acreage that was chopped had originally been intended for grain but the drought necessitated farmers to salvage what they could. And by September 1, 10% of the grain crop had been shelled. If there was a silver lining to the summer's heat and drought, it was field drying the corn to moisture levels that required little, and in many cases, no additional artificial drying for storage. This, coupled with steadily rising prices through the summer, was providing a small consolation for a crop forecast on October 1 by MDA to average 95 bu/acre.

Test Results

The location performance of the hybrids in the 2010 State Corn Hybrid Tests are found in Tables 7-21. The agronomic characteristics reported are yield in bushels/acre at 15.5% moisture content, harvest moisture content, per cent lodging, and harvest populations.

The effects of the growing season weather and spotty rainfall across the state are evident by the rainfall received at the five testing sites. Growing season precipitation ranged from approximately 5% greater than the long-term growing season average at Wye, 12-13% below normal at Poplar Hill, Salisbury, and Clarksville, and an extremely dry 27% below normal at Keedysville (Table 3). Keedysville received only 4 inches of rain during June, July and August resulting in yield that was 50-70% below average.

Averaged over the five locations and including the two replant sites, mean yields for the 22 early season hybrids was 130.6 bu/acre, 141.4 bu/acre for the 41 mid-season hybrids, and 137.6 bu/acre for the 28 full season hybrids. These yields were 65%-70% of those attained during 2009.

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 due to 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 2010 (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.

Acknowledgments

The University of Maryland Corn Hybrid Testing Program would not happen if it weren't for the assistance with seed packaging, planting, data collection, plot harvest, and data analysis made by the Grain and Oil Crop Program's research technicians, Patrick Forrestal, Moynul Islam, and Patrick Watkins and undergraduate student assistant, Brittany Gaban. Assistance with land preparation, planting, plot management, harvesting, and equipment maintenance/repair was provided by the personnel at each of the farm locations (Table 1) and is greatly appreciated. A special thank you is extended to David Armentrout, Kevin Conover, Timothy Ellis, David Justice, and Mark Sultenfuss; all of whom assisted with the successful completion of these tests. The Maryland Grain Producers' Utilization Board is recognized for funding the inclusion of the check hybrids.

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. 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. Maryland corn test locations and plot management information for 2010.

Location	Soil Type	Previous crop	Fertilizer	Herbicides	Insecticide	Tillage	Plant date	Harvest date	Farm crew
Wye Research & Education Center Queenstown, MD	Mattapeake silt loam	Soybean	200 lb acre ⁻¹ 0-0-60 (4/21/10) 48 lb N acre ⁻¹ as 30% UAN (4/30/10) 112 lb N acre ⁻¹ as 30% UAN (6/01/10) Total = 160-0-120	Lexar @ 3 qt acre ⁻¹ applied pre-emerge (4/30/10) Accent @ 2/3 oz acre ⁻¹ + Distinct @ 4 oz acre ⁻¹ applied post-emerge (6/08/10)	None	Conventional Deep rip, disk, chisel, disk.	27 Apr.	15 Sept.	Mark Sultenfuss Joe Street Reese Stafford
Lower Eastern Shore R&E Center – Poplar Hill Quantico, MD	Mattapex silt loam	Wheat cover crop	200 lb/acre 0-0-45-20 (4/6/10); 60 lb N/acre as 30% UAN (4/26/10); 120 lb N/acre as 32% UAN (6/2/10); Total = 180-00-90-40 S	Gramoxone @ 24 oz/A + BiCep II Magnum 1.5 pt/A + 820Surf. 4 floz/A (4/15/10); RoundUp Power Max 1.5 pt/A + Harness Extra 2 qt/A + Atrazine 1 lb/A (5/21/10)	None	No-till with trash wheels	23 Apr. Replant 25 May	13 Sept. Replant 18 Oct.	David Armentrout Mike Kelly James Lynch Fred Senkbeil Vivian Calder
Lower Eastern Shore R&E Center Salisbury Salisbury, MD	Fort Mott loamy sand	Rye cover crop	400 lb/acre 0-0-25-10 + 0.2% B (4/6/10); 64 lb N/acre as 30% UAN (4/13/10); 61 lb N/acre as 30% UAN (5/26/10); 69 lb N/acre as 32% UAN (6/3/10); Total = 194-00-100-40 S+1 B	Roundup Weathermax @ 24 oz/acre + BiCep II Magnum 1.5 pt/acre (4/7/10); RoundUp Power Max 1.5 pt/A + Lumax 2 pt/A + Atrazine 1 lb/A (5/21/10)	4 oz/acre Asana XL (7 Apr.)	No-till with trash wheels	23 Apr. Replant 25 May	13 Sept. Replant 18 Oct.	David Armentrout Mike Kelly James Lynch Fred Senkbeil Vivian Calder
Central Maryland R&E Center - Clarksville Clarksville, MD	Delanco silt loam	Soybean	200 lb/acre 7-18-36 preplant. 130 lb/acre N as 30% UAN at planting. Total = 144-36-72	2 qt/acre Bicep II and 1.5 pt/acre Gramoxone Inteon applied pre-emerge at planting. 5 oz/acre Status applied post-emerge.	None	No-till with trash wheels on planter.	10 May	12 Oct.	David Justice Timothy Ridgley
Western Maryland R&E Center Keedysville, MD	Hagerstown silt loam	Soybean	130 lb N acre ⁻¹ as UAN @ planting. Total = 130-0-0	Lumax – 3 qt. acre ⁻¹ Simazine – 1 qt. acre ⁻¹ Gramoxone - 1 qt. acre ⁻¹ Weedone LV4 - 1 pt. acre ⁻¹ All applied pre-emerge.	None	No-till with trash wheels on planter.	7 May	7 Oct.	Timothy Ellis Douglas Price

Table 2. Seed brands and companies represented in the 2010 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, Clayton, DE19938
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	Dyna-Gro Seed, 1140 Sweet Road, Aurora, NY 14052
Garst	Syngenta Seeds, 18166 Dry Run Rd West, Spring Run, PA 17262
Growmark FS	Growmark FS LLC., 308 N.E. Front St., Milford, DE 19963
Hubner Seed	Hubner Seed, 10280 West SR 28, West Lebanon, IN 47991
Mycogen Seeds	Mycogen Seeds, 2005 County Highway 22, Richfield Springs, NY 13439
NK Seeds	Syngenta Seeds, 18166 Dry Run Rd West, Spring Run, PA 17262
Pioneer	Pioneer Hi-bred International, Inc., PO Box 14453, Des Moines, IA 50306
RPM	Doebler's PA Hybrids, Inc., 202 Tiadaghton Ave., Jersey Shore, PA 17740
T.A. Seeds	T.A. Seeds LLC., PO Box 300, Avis, PA 17721

Table 3. Precipitation received at each location where the Maryland Corn Hybrid Tests were conducted during 2010.

Month	Wye	Poplar Hill	Salisbury ¹	Keedysville	Clarksville
	-----Inches-----				
April	1.46	1.31	1.38(0.0)	2.15	3.27
May	2.05	1.57	2.66(0.9)	3.52	3.43
June	2.81	2.9	3.28(2.5)	1.02	0.87
July	6.91	3.42	2.65(2.9)	1.67	4.01
August	3.00	4.21	6.72(1.0)	1.32	3.28
September	7.42	6.03	4.14(0.4)	5.84	6.45
2010 Total	23.65	19.44	20.83 (7.7)	15.52	21.31
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 2010.

Brand/Company Name	Hybrid Name	Entry Test No.	Relative Maturity	Genetic Traits ¹	Seed Treatment
Augusta	A2855GT3	16	105	GT3	Cruiser 250
Augusta	A0607CBLL	17	107	CBLL	Cruiser 250
Augusta	A2852GTCBLL	18	102	GTCBLL	Cruiser 1250
Augusta	A5457	20	107	Conventional	Poncho 250
Augusta	A2847LL	32	97	LL	Cruiser 250
Augusta	A2752GT3	33	102	GT3	Cruiser 250
Augusta	A2850LL	34	100	HXLL	Cruiser 250
Augusta	A2854HXLL	35	104	HXLL	Cruiser 250
Augusta	A2857	36	107	Conventional	Cruiser 250
Augusta	A2851LLD	37	101	LL	Cruiser 1250
Dekalb	DKC52-59 (VT3)	55	102	VT3	Poncho 250
Dekalb	DKC54-16 (VT3)	56	104	VT3	Poncho 250
Dekalb (Check)	DKC57-50 (VT3)	57	107	VT3	Poncho 250
Doeblers	679GRQ	42	107	Agrisure 3000GT	Cruiser 250
Dyna-Gro	D44SS49	1	104	SMART STAX	Poncho 250
Growmark FS	5099VT3	39	100	VT3	Poncho 250
Growmark FS	5595VT3	68	105	VT3	Poncho 250
Pioneer (Check)	35F44	88	105	HXX/LL/RR2	
RPM	615HRQ™	40	106	HXT/LL/RR2	Cruiser 250
RPM	633HXR™	41	105	HX1/LL/RR2	Cruiser 250
T.A Seeds	TA565-18	69	106	3000GT	Poncho 250
T.A Seeds ³	TA545-08	79	104	Conventional	

¹Genetic trait codes are:

CB and HX for Bt (*Bacillus thuringiensis*) events that provide protection for European corn borer.

RR and GT refer to glyphosate (Roundup) herbicide tolerance.

RR2 designates the second generation event for glyphosate herbicide tolerance.

Conventional indicates a hybrid with no biotechnology linked genetic enhancement.

LL refers to a hybrid with glufosinate (Liberty) herbicide tolerance.

Agrisure 3000GT, 3000GT, and GT3 all indicate tolerance to both glufosinate-ammonium (Ignite) and glyphosate (Roundup) herbicides in addition to having protection from Western, Northern, Southern and Mexican rootworm and protection from European and Southwestern corn borer.

VT3 or YieldGard is a triple stack package for corn borer, corn rootworm and glyphosate herbicide tolerance.

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

SmartStax designation refers to genetically engineered corn that has eight traits combined or 'stacked' together – 6 for insect resistance (Bt) and 2 for herbicide tolerance.

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

³Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

Table 5. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in Maryland during 2010.

Brand/ Company Name	Hybrid Name	Entry Test No.	Relative Maturity	Genetic Traits ¹	Seed Treatment
Augusta	A5337EVT3	19	111	VT3	Cruiser 250
Augusta	A5460GT3D	21	110	GT3	Cruiser 1250
Augusta	A0606CBLL	22	111	CBLL	Cruiser 1250
Augusta	A0720CBLL	23	111	CBLL	Poncho 250
Augusta	A5558VT3	27	108	VT3	Poncho 250
Augusta	A5461GTCBLL	28	111	GTCBLL	Cruiser 250
Augusta	A5462GT3	31	112	GT3	Cruiser 250
Dekalb	DKC58-83 (GENVT3P)	58	108	GENVT3P	Acceleron
Dekalb	DKC61-35 (GENVT3P)	59	111	GENVT3P	Acceleron
Dekalb	DKC62-54 (VT3)	60	112	VT3	Poncho 250
Dekalb	DKC62-97 (GENVT3P)	61	112	GENVT3P	Acceleron
Dekalb (Check)²	DKC63-14 (VT3)	62	113	VT3	Poncho 250
Dekalb ³	DKC61-21	80	111	SMART STAX	
Dekalb ³	DKC61-22	81	111	RR	
Dekalb ³	DKC61-69VT3	82	111	VT3	
Dekalb ³	DKC61-72	83	111	RR2	
Dyna-Gro	D49VP59	2	109	VT3PRO	Poncho 250
Dyna-Gro	56Q86	3	109	3000GT	Poncho 250
Dyna-Gro	57V40	4	111	VT3	Poncho 250
Garst	85E98-3000GT	12	109	GT,CB,LL,RW	Cruiser 500
Garst	84U58-3000GT	13	110	GT,CB,LL,RW	Cruiser 500
Garst	84J30-3000GT	14	112	GT,CB,LL,RW	Cruiser 500
Growmark FS	6296VT3	67	112	VT3	Poncho 250
Hubner Seed	H5505VT3P	49	111	VT3P	
Hubner Seed	H5555VT3	50	111	VT3	
Hubner Seed	H6330GENSS	54	108	GENSS	
Mycogen	2V732	46	112	Bt, RR	Cruiser 250
Mycogen	2E694	48	110	Bt, RR	Cruiser 250
Mycogen ³	ST-6208	89	108	RR	
Mycogen ³	2K662	90	108	HXT/RR	
Mycogen ³	2D692	91	109	SMART STAX	
NK	N61P-3000GT	8	108	GT,CB,LL,RW	Cruiser 500
NK	N68B-3000GT	9	110	GT,CB,LL,RW	Cruiser 500
NK	N72Q-3000GT	10	112	GT,CB,LL,RW	Cruiser 500
Pioneer (Check)	34R67	86	109	HX1, LL, RR2	
RPM	725HRQ™	43	112	HXT/LL/RR2	Cruiser 250
T.A Seeds	TA590-00	70	109	Conventional	Poncho 250
T.A Seeds	TA657-13VP	71	111	VT3P	Poncho 250
T.A Seeds	TA656-00	72	111	Conventional	Poncho 250
T.A Seeds ³	TA688-00	78	111	Conventional	
T.A Seeds (Check)	TA717-20	74	114	3000GT	Poncho 250

¹Genetic trait codes are:

CB and HX for Bt (*Bacillus thuringiensis*) events that provide protection for European corn borer.

RR and GT refer to glyphosate (Roundup) herbicide tolerance.

RR2 designates the second generation event for glyphosate herbicide tolerance.

Conventional indicates a hybrid with no biotechnology linked genetic enhancement.

LL refers to a hybrid with glufosinate (Liberty) herbicide tolerance.

Agrisure 3000GT, 3000GT, and GT3 all indicate a hybrid with tolerance to both glufosinate-ammonium (Ignite) and glyphosate (Roundup) herbicides in addition to having protection from Western, Northern, Southern and Mexican rootworm and protection from European and Southwestern corn borer.

VT3 or YieldGard refers to a triple stack package for corn borer, corn rootworm and glyphosate herbicide tolerance.

GENVT3P and VT3PRO refers to a triple stack package that is similar to YieldGard Triple but has an additional gene that provides in the ear corn earworm protection that prevents most kernel damage by this pest.

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

SmartStax and GENSS designation refers to genetically engineered corn that has eight traits combined or 'stacked' together – 6 for insect resistance (Bt) and 2 for herbicide tolerance.

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

³Hybrids included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

Table 6. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in Maryland during 2010.

Brand/Company Name	Hybrid Name	Entry Test No.	Relative Maturity	Genetic Traits ¹	Seed Treatment
Augusta	A7664VT3	24	114	VT3	Poncho 250
Augusta	A6164GT3	25	114	GT3	Cruiser 1250
Augusta	A6166CBLL	26	116	CBLL	Cruiser 250
Augusta	A6867CBLL	29	117	CBLL	Cruiser 1250
Augusta	A6365GT	30	115	GT	Cruiser 250
Augusta ³	A0602C	38	119	Conventional	
Augusta (Check)	A6164CBLL	65	114	CBLL	
Augusta (Check)²	A007	66	115	Conventional	
Clarks	CL715C	84	115	Conventional	
Clarks	CL717C	85	117	Conventional	
Dekalb	DKC63-84 (VT3)	63	113	VT3	Poncho 250
Dekalb	DKC64-24 (VT3)	64	114	VT3	Poncho 250
Doebblers	721XY	44	114	Conventional	Cruiser 250
Dyna-Gro	57V59	5	114	VT3	Poncho 250
Dyna-Gro	57V21	6	115	VT3	Poncho 250
Dyna-Gro	V5683VT3	7	116	VT3	Poncho 250
Garst	83R38-3000GT	15	113	GT,CB,LL,RW	Cruiser 500
Hubner Seed	H5655VT3	51	113	VT3	
Hubner Seed	H5707VT3	52	114	VT3	
Hubner Seed	H5909VT3P	53	115	VT3	
Mycogen	2G847	47	116	BT, RR	Cruiser 250
NK	N74R-3000GT	11	113	GT,CB,LL,RW	Cruiser 500
Pioneer (Check)	33N58	87	113	HX1, LL, RR2	
RPM	728HXR™	45	114	HX1/LL/RR2	Cruiser 250
T.A Seeds	TA717-11	73	114	CBLL	Poncho 250
T.A Seeds	TA778-13V	75	115	VT3	Poncho 250
T.A Seeds	TA765-00	76	115	Conventional	Poncho 250
T.A Seeds	TA790-18	77	118	Agrisure GT	Poncho 250

¹Genetic trait codes are:

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VT3 or YieldGard refers to a triple stack package for corn borer, corn rootworm and glyphosate herbicide tolerance.

GENVT3P and VT3PRO refers to a triple stack package that is similar to YieldGard Triple but has an additional gene that provides in the ear corn earworm protection that prevents most kernel damage by this pest.

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

SmartStax and GENSS designation refers to genetically engineered corn that has eight traits combined or 'stacked' together – 6 for insect resistance (Bt) and 2 for herbicide tolerance.

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

³Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

Table 7. Performance of early season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2010.

Brand/Company Name	Test Entry No.	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	16	2855GT3	138.3	15.7	0.0	94.3	26563
Augusta	17	A0607CBLL	155.2*	18.1	0.0	105.8	27693
Augusta	18	A2852GTCBLL	151.6	15.3	0.7	103.3	28070
Augusta	20	A5457	165.0*	16.8	0.7	112.5	26374
Augusta	32	A2847LL	144.1	14.9	0.0	98.2	28447
Augusta	33	A2752GT3	155.8*	12.7	0.0	106.2	29765
Augusta	34	A2850LL	140.1	14.2	0.0	95.5	26563
Augusta	35	A2854HXLL	130.4	16.2	0.0	88.9	29012
Augusta	36	A2857	170.3*	16.0	0.0	116.1	27693
Augusta	37	2851LLD	132.2	14.4	1.3	90.1	30142
Dekalb	55	DKC52-59 (VT3)	126.9	13.4	0.0	86.5	28823
Dekalb	56	DKC54-16 (VT3)	141.3	13.7	0.0	96.3	30142
Dekalb (Check)⁴	57	DKC57-50 (VT3)	153.2*	14.9	0.6	104.5	28823
Doebblers	42	679GRQ	144.1	14.3	0.0	98.2	27316
Dyna-Gro	1	D44SS49	160.7*	15.2	0.7	109.5	29012
Growmark FS	39	5099VT3	127.2	14.3	0.0	86.7	29012
Growmark FS	68	5595VT3	142.5	17.7	0.0	97.2	28447
Pioneer (Check)	88	35F44	156.2*	13.4	0.0	106.5	28070
RPM	40	615HRQ™	141.2	16.2	0.0	96.2	28635
RPM	41	633HXR™	133.1	17.2	0.0	90.7	28823
T.A Seeds	69	TA565-18	162.6*	13.0	0.0	110.8	27505
T.A Seeds ⁵	79	TA545-08	147.3	14.1	0.0	100.4	28823
Trial Mean			146.7	14.9	0.2		28352
LSD_{0.10}			18.5	NS	NS		1724
CV%			9.2%				

¹See Table 4 for hybrid type 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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

*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 2010.

Brand/Company Name	Test Entry No.	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	19	A5337EVT3	166.9*	19.3	0.7	111.2	27693
Augusta	21	A5460GT3D	160.8*	18.8	0.0	107.2	28258
Augusta	22	A0606CBLL	178.3*	20.1	0.0	118.9	27881
Augusta	23	A0720CBLL	141.1*	21.1	0.6	94.1	29577
Augusta	27	A5558VT3	171.1*	18.8	0.0	114.1	28823
Augusta	28	A5461GTCBLL	168.3*	19.8	0.0	112.2	28258
Augusta	31	A5462GT3	147.5*	18.8	0.0	98.3	28447
Dekalb	58	DKC58-83 (GENVT3P)	134.2	19.0	0.0	89.4	28447
Dekalb	59	DKC61-35 (GENVT3P)	156.2*	18.7	0.0	104.1	28635
Dekalb	60	DKC62-54 (VT3)	144.2*	19.4	2.8	96.1	28258
Dekalb	61	DKC62-97 (GENVT3P)	150.4*	19.0	0.0	100.2	28185
Dekalb ⁵	80	DKC61-21	140.1*	19.7	0.7	93.4	28447
Dekalb ⁵	81	DKC61-22	179.8*	19.7	0.0	119.9	29200
Dekalb ⁵	82	DKC61-69VT3	159.8*	20.5	0.0	106.5	28823
Dekalb ⁵	83	DKC61-72	176.5*	18.5	0.0	117.7	28823
Dekalb (Check)⁴	62	DKC63-14 (VT3)	180.5*	23.4	0.0	120.4	28447
Dyna-Gro	2	D49VP59	160.4*	17.7	0.0	106.9	27316
Dyna-Gro	3	56Q86	119.9	20.0	0.0	79.9	26374
Dyna-Gro	4	57V40	128.8	21.2	0.0	85.9	27128
Garst	12	85E98-3000GT	141.7*	18.3	0.0	94.5	28823
Garst	13	84U58-3000GT	131.7	17.7	0.0	87.8	27505
Garst	14	84J30-3000GT	165.3*	20.4	0.7	110.2	28258
Growmark FS	67	6296VT3	174.5*	20.1	0.0	116.4	29577
Hubner Seed	49	H5505VT3P	158.9*	17.3	0.0	105.9	27881
Hubner Seed	50	H5555VT3	168.6*	20.1	0.0	112.4	28635
Hubner Seed	54	H6330GENSS	158.3*	17.5	0.0	105.6	28070
Mycogen	46	2V732	148.2*	20.9	0.0	98.8	27881
Mycogen	48	2E694	151.0*	17.4	0.0	100.7	29879
Mycogen ⁵	89	ST-6208	122.1	18.2	0.6	81.4	28635
Mycogen ⁵	90	2K662	127.2	20.3	0.0	84.8	29012
Mycogen ⁵	91	2D692	119.6	19.6	0.0	79.7	28823
NK	8	N61P-3000GT	167.4*	18.3	0.0	111.6	28447
NK	9	N68B-3000GT	177.9*	19.0	0.0	118.6	29012
NK	10	N72Q-3000GT	146.4*	21.2	0.7	97.6	28070
Pioneer (Check)	86	34R67	151.2*	18.8	0.7	100.8	26374
RPM	43	725HRQ™	134.9	18.5	0.0	89.9	27693
T.A Seeds	70	TA590-00	138.0	16.4	0.0	92.0	23360
T.A Seeds	71	TA657-13VP	138.6	19.8	5.8	92.4	26939
T.A Seeds	72	TA656-00	76.6	19.6	0.0	51.1	25809
T.A Seeds (Check)	74	TA717-20	142.9*	18.7	0.0	95.3	29200
T.A Seeds ⁵	78	TA688-00	143.2*	18.5	2.7	95.5	28447
Trial Mean			150	19.3	0.4		28130
LSD_{0.10}			41.1	NS	1.7		1890
CV%			20.2%				

¹See Table 5 for hybrid type 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.

⁵Hybrids included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

*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 2010.

Brand/Company Name	Test Entry No.	Hybrid Name ¹	Yield (bu/a) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	24	A7664VT3	157.2*	19.0	0.0	100.9	28635
Augusta	25	A6164GT3	158.9*	22.5	0.7	102.0	28823
Augusta	26	A6166CBLL	135.4	17.8	0.0	86.9	27316
Augusta	29	A6867CBLL	185.3*	21.5	0.0	118.9	28507
Augusta	30	A6365GT	163.0*	20.4	0.6	104.6	29389
Augusta (Check)	66	A007	139.6	25.5	0.0	89.6	28258
Augusta (Check)⁴	65	A6164CBLL	185.4*	21.7	0.0	119.0	29389
Augusta ⁵	38	0602C	168.0*	22.2	2.0	107.8	28447
Clarks	84	CL715C	135.1	20.3	0.0	86.7	27316
Clarks	85	CL717C	141.8	17.8	0.0	91.0	28447
Dekalb	63	DKC63-84 (VT3)	140.6	20.9	0.7	90.3	28823
Dekalb	64	DKC64-24 (VT3)	147.9	17.5	0.7	94.9	28447
Doebler	44	721XY	166.0*	21.9	0.7	106.6	28823
Dyna-Gro	5	57V59	124.0	17.5	0.0	79.6	28635
Dyna-Gro	6	57V21	165.4*	22.4	0.0	106.2	29012
Dyna-Gro	7	V5683VT3	159.5*	23.6	2.7	102.4	27693
Hubner Seed	51	H5655VT3	163.5*	20.2	0.0	105.0	26751
Hubner Seed	52	H5707VT3	166.8*	19.0	1.3	107.1	28070
Hubner Seed	53	H5909VT3P	165.4*	25.3	0.6	106.2	29389
Mycogen	47	2G847	177.6*	22.5	0.7	114.0	28823
NK	11	N74R-3000GT	183.8*	23.0	0.0	118.0	27128
Pioneer (Check)	87	33N58	190.2*	19.9	0.0	122.1	27128
RPM	45	728HXR™	101.9	22.1	0.7	65.4	28823
T.A Seeds	73	TA717-11	157.2*	21.8	0.0	100.9	29389
T.A Seeds	75	TA778-13V	153.3*	20.9	0.0	98.4	27881
T.A Seeds	76	TA765-00	125.3	23.0	0.0	80.5	28823
T.A Seeds	77	TA790-18	145.0	21.2	0.0	93.1	27693
Trial Mean			155.8	21.1	0.4		28365
LSD_{0.10}			37.7	4.7	NS		NS
CV%			17.7%				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 10a. Performance of early season maturity hybrids with glyphosate tolerance evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	16	2855GT3	146.8	14.4	0.0	90.7	24867
Augusta	18	A2852GTCBLL	165.2*	14.4	1.4	102.1	28070
Augusta	33	A2752GT3	168.2*	14.0	2.2	103.9	28823
Dekalb	55	DKC52-59 (VT3)	161.5*	14.3	0.0	99.8	28447
Dekalb	56	DKC54-16 (VT3)	166.3*	14.5	0.0	102.7	26751
Dekalb (Check)⁴	57	DKC57-50 (VT3)	197.2*	16.0	0.0	121.8	28258
Doeblers	42	679GRQ	141.6	14.9	1.4	87.5	26374
Dyna-Gro	1	D44SS49	165.6*	15.2	0.0	102.3	28258
Growmark FS	39	5099VT3	173.2*	14.4	0.0	107.0	29577
Growmark FS	68	5595VT3	166.0*	14.4	1.4	102.5	27128
Pioneer (Check)	88	35F44	128.9	12.8	0.0	79.6	27128
RPM	40	615HRQ™	154.0	18.1	0.0	95.1	28823
RPM	41	633HXR™	167.3*	17.7	1.3	103.3	28823
T.A Seeds	69	TA565-18	164.4*	14.8	0.7	101.5	26751
Trial Mean			161.9	15.0	0.6		27720
LSD_{0.10}			39.5	1.6	NS		1876
CV%			17.5				

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 10b. Performance of early-season hybrids evaluated following replant due to glyphosate application to hybrid test site at Lower Eastern Shore Research and Education Center, Poplar Hill Facility, Quantico, MD during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	17	A0607CBLL	139.1*	14.3	1.0	98.1	27709
Augusta	20	A5457	141.6*	15.2	0.9	99.9	30453
Augusta	32	A2847LL	105.8	12.3	1.8	74.6	29630
Augusta	34	A2850LL	80.3	13.4	1.0	56.6	28807
Augusta	35	A2854HXLL	159.2*	14.0	1.0	112.3	30179
Augusta	36	A2857	166.8*	13.6	6.6	117.6	29630
Augusta	37	2851LLD	131.0*	12.8	1.0	92.4	29630
Dekalb (Check)⁴	57	DKC57-50 (VT3)	149.3*	13.9	0.0	105.3	29081
Pioneer (Check)	88	35F44	177.5*	13.9	0.0	125.2	30727
T.A Seeds ⁵	79	TA545-08	167.2*	14.1	0.0	117.9	29420
Trial Mean			141.8	13.8	1.3		29527
LSD_{0.10}			49.7	NS	3.3		NS
CV%			24.8				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 11a. Performance of mid-season maturity hybrids with glyphosate tolerance that were evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	19	A5337EVT3	201.1*	18.3	1.5	113.9	26939
Augusta	21	A5460GT3D	166.9*	15.9	0.7	94.6	29389
Augusta	27	A5558VT3	179.2*	15.3	0.7	101.6	28823
Augusta	28	A5461GTCBLL	198.2*	17.8	2.1	112.3	27316
Augusta	31	A5462GT3	155.1	17.4	0.7	87.9	28823
Dekalb	58	DKC58-83 (GENVT3P)	174.1*	16.0	0.0	98.6	29577
Dekalb	59	DKC61-35 (GENVT3P)	204.3*	16.4	0.0	115.8	28447
Dekalb	60	DKC62-54 (VT3)	193.1*	17.6	0.0	109.4	29012
Dekalb	61	DKC62-97 (GENVT3P)	186.3*	21.2	0.0	105.5	27693
Dekalb (Check)⁴	62	DKC63-14 (VT3)	205.2*	21.9	0.0	116.3	29765
Dekalb ⁵	80	DKC61-21	140.6	16.9	0.7	79.6	28447
Dekalb ⁵	81	DKC61-22	198.6*	14.9	2.0	112.5	28447
Dekalb ⁵	82	DKC61-69VT3	205.0*	17.9	0.0	116.1	29200
Dekalb ⁵	83	DKC61-72	154.1	15.5	2.5	87.3	29200
Dyna-Gro	2	D49VP59	168.6*	18.6	0.7	95.5	26751
Dyna-Gro	3	56Q86	163.2	17.3	0.0	92.5	27316
Dyna-Gro	4	57V40	171.5*	17.0	1.4	97.2	27693
Garst	12	85E98-3000GT	185.2*	16.5	0.0	104.9	28258
Garst	13	84U58-3000GT	202.1*	19.5	0.0	114.5	27881
Garst	14	84J30-3000GT	193.8*	17.7	0.0	109.8	28635
Growmark FS	67	6296VT3	171.8*	15.6	2.6	97.3	29200
Hubner Seed	49	H5505VT3P	163.3	16.6	15.2	92.5	27881
Hubner Seed	50	H5555VT3	154.0	14.3	3.2	87.3	29577
Hubner Seed	54	H6330GENSS	139.4	16.3	0.7	79.0	28258
Mycogen	46	2V732	143.4	17.1	0.7	81.2	28070
Mycogen	48	2E694	142.4	17.1	3.9	80.7	28823
Mycogen ⁵	89	ST-6208	182.4*	14.2	1.3	103.4	28258
Mycogen ⁵	90	2K662	176.2*	15.7	0.7	99.8	27505
Mycogen ⁵	91	2D692	187.1*	17.1	0.7	106.0	28070
NK	8	N61P-3000GT	177.7*	16.9	0.0	100.7	27693
NK	9	N68B-3000GT	162.5	17.8	0.0	92.1	28823
NK	10	N72Q-3000GT	203.1*	19.5	4.9	115.0	27881
Pioneer (Check)	86	34R67	152.9	15.3	2.1	86.6	26374
RPM	43	725HRQ™	174.4*	19.1	0.0	98.8	27128
T.A Seeds	71	TA657-13VP	207.6*	18.9	2.6	117.6	29012
T.A Seeds (Check)	74	TA717-20	170.6*	17.9	0.7	96.7	29012
		Trial Mean	176.5	17.2	1.4		28311
		LSD_{0.10}	41.9	2.7	4.0		1489
		CV%	17.5				

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.

⁵Hybrids included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 11b. Performance of mid-season maturity hybrids that were evaluated following replant due to glyphosate application to hybrid test site at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2010.

Brand/Company	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	22	A0606CBLL	130.8	16.4	0.0	83.6	30179
Augusta	23	A0720CBLL	182.5*	15.2	0.0	116.7	30179
Dekalb (Check)⁴	62	DKC63-14 (VT3)	151.9*	16.9	0.0	97.1	29630
Pioneer (Check)	86	34R67	163.7*	14.0	1.0	104.7	27709
T.A Seeds	70	TA590-00	115.1	14.4	1.0	73.6	25240
T.A Seeds	72	TA656-00	184.1*	15.6	0.9	117.7	29904
T.A Seeds (Check)	74	TA717-20	163.2*	15.5	0.0	104.4	28807
T.A Seeds ⁵	78	TA688-00	159.7*	13.4	0.0	102.1	29630
Trial Mean			156.4	15.2	0.4		28910
LSD_{0.10}			47.9	1.3	NS		NS
CV%			21.3%				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 12a. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	24	A7664VT3	202.7*	19.3	0.0	105.2	27316
Augusta	25	A6164GT3	178.5	16.2	0.6	92.7	29012
Augusta	30	A6365GT	184.2*	19.3	3.6	95.6	26939
Dekalb	63	DKC63-84 (VT3)	195.1*	17.4	1.3	101.3	28635
Dekalb	64	DKC64-24 (VT3)	202.2*	17.1	0.7	105.0	28070
Dyna-Gro	5	57V59	205.9*	15.8	0.0	106.9	29012
Dyna-Gro	6	57V21	203.6*	21.5	0.0	105.7	27316
Dyna-Gro	7	V5683VT3	182.6*	18.1	0.0	94.8	28447
Hubner Seed	51	H5655VT3	202.5*	20.7	0.0	105.1	28635
Hubner Seed	52	H5707VT3	197.3*	18.8	0.0	102.4	28823
Hubner Seed	53	H5909VT3P	195.1*	21.5	0.7	101.3	29012
Mycogen	47	2G847	198.2*	18.9	0.0	102.9	29389
NK	11	N74R-3000GT	193.5*	19.2	0.0	100.5	27693
Pioneer (Check)⁴	87	33N58	193.0*	19.8	0.0	100.2	28635
RPM	45	728HXR™	197.4*	20.3	1.9	102.5	28070
T.A Seeds	75	TA778-13V	178.4	17.4	1.4	92.6	27128
T.A Seeds	77	TA790-18	164.0	18.3	2.1	85.1	26374
		Trial Mean	192.6	18.8	0.7		28147
		LSD_{0.10}	23.4	3.0	NS		1450
		CV%	8.8				

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 12b. Performance of full season maturity hybrids evaluated following replant at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	26	A6166CBLL	149.3*	17.6	0.0	101.7	30727
Augusta	29	A6867CBLL	169.5*	16.8	1.0	115.6	28807
Augusta (Check)	66	A007	130.3	16.9	2.5	88.8	30727
Augusta (Check)⁴	65	A6164CBLL	173.8*	15.1	0.9	118.4	29356
Augusta ⁵	38	0602C	80.8	16.4	0.9	55.1	30727
Clarks	84	CL715C	114.8	14.1	2.9	78.3	27161
Clarks	85	CL717C	132.9	17.1	0.0	90.6	27709
Doebler	44	721XY	176.5*	16.3	2.0	120.3	28532
Pioneer (Check)	87	33N58	174.9*	14.5	0.0	119.2	27984
T.A Seeds	73	TA717-11	176.4*	17.0	0.0	120.3	30179
T.A Seeds	76	TA765-00	134.1	16.0	1.9	91.4	28258
		Trial Mean	146.7	16.2	1.1		29106
		LSD_{0.10}	34.0	NS	NS		NS
		CV%	16.4				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 13a. Performance of early-season hybrids evaluated at Lower Eastern Shore Research and Education Center, Salisbury Facility, Salisbury, MD during 2010.

Brand/ Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	16	2855GT3	149.8	13.9	0.0	93.1	26211
Augusta	18	A2852GTCBLL	164.9	14.2	0.0	102.5	29417
Augusta	33	A2752GT3	146.7	14.7	1.4	91.2	28663
Dekalb	55	DKC52-59 (VT3)	159.2	12.5	2.6	99.0	29417
Dekalb	56	DKC54-16 (VT3)	171.1	14.1	3.4	106.4	27909
Dekalb (Check)⁴	57	DKC57-50 (VT3)	157.9	15.0	3.3	98.1	28474
Doeblers	42	679GRQ	155.2	14.1	2.1	96.5	26589
Dyna-Gro	1	D44SS49	153.6	14.4	2.1	95.4	26966
Growmark FS	39	5099VT3	154.1	13.7	1.4	95.8	28286
Growmark FS	68	5595VT3	164.9	13.8	4.1	102.5	27720
Pioneer (Check)	88	35F44	172.7	13.7	0.7	107.3	27531
RPM	40	615HRQ™	150.1	15.5	1.3	93.3	29229
RPM	41	633HXR™	197.5*	16.1	0.0	122.7	28663
T.A Seeds	69	TA565-18	154.1	14.2	3.4	95.8	27720
Trial Mean			160.9	14.3	1.8		28057
LSD_{0.10}			24.3	1.0	NS		1480
CV%			11.0%				

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 13b. Performance of replanted early-season hybrids evaluated at Lower Eastern Shore Research and Education Center, Salisbury Facility, Salisbury, MD during 2010.

Brand/ Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	17	A0607CBLL	150.9	11.7	5.7	98.9	24944
Augusta	20	A5457	167.0	13.3	10.4	109.5	27572
Augusta	32	A2847LL	132.5	11.7	12.6	86.8	26886
Augusta	34	A2850LL	126.3	12.8	11.7	82.8	28258
Augusta	35	A2854HXLL	170.1	13.7	2.0	111.5	29356
Augusta	36	A2857	169.5	14.0	11.5	111.1	28258
Augusta	37	2851LLD	152.3	11.8	5.6	99.8	29356
Dekalb (Check)⁴	57	DKC57-50 (VT3)	176.1	14.7	1.9	115.4	29324
Pioneer (Check)	88	35F44	142.2	12.5	3.6	93.2	28807
T.A Seeds ⁵	79	TA545-08	143.6	14.5	8.9	94.1	27435
Trial Mean			152.6	13.1	7.3		28035
LSD_{0.10}			22.4	NS	NS		NS
CV%			10.4%				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 14a. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2010.

Brand/Company	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	19	A5337EVT3	186.0*	16.9	4.2	104.6	26777
Augusta	21	A5460GT3D	176.2	15.4	18.8	99.1	28474
Augusta	27	A5558VT3	157.5	15.3	3.0	88.6	27720
Augusta	28	A5461GTCBLL	206.9*	15.9	7.5	116.3	27343
Augusta	31	A5462GT3	206.5*	18.1	1.3	116.1	28474
Dekalb	58	DKC58-83 (GENVT3P)	181.2	16.4	2.7	101.9	28851
Dekalb	59	DKC61-35 (GENVT3P)	155.6	16.7	7.7	87.5	28851
Dekalb	60	DKC62-54 (VT3)	170.3	17.1	0.0	95.8	28851
Dekalb	61	DKC62-97 (GENVT3P)	166.7	16.1	0.7	93.8	27343
Dekalb (Check)⁴	62	DKC63-14 (VT3)	171.3	19.8	0.7	96.3	28474
Dekalb ⁵	80	DKC61-21	167.6	16.2	0.0	94.2	28286
Dekalb ⁵	81	DKC61-22	186.5*	14.7	0.7	104.9	28097
Dekalb ⁵	82	DKC61-69VT3	188.0*	15.0	3.5	105.7	28097
Dekalb ⁵	83	DKC61-72	172.9	15.1	4.7	97.3	27343
Dyna-Gro	2	D49VP59	188.1*	15.9	0.0	105.8	26777
Dyna-Gro	3	56Q86	171.0	16.7	1.4	96.2	26777
Dyna-Gro	4	57V40	198.7*	16.3	0.8	111.8	26400
Garst	12	85E98-3000GT	187.9*	14.5	0.7	105.7	28286
Garst	13	84U58-3000GT	182.9*	15.6	0.0	102.9	28474
Garst	14	84J30-3000GT	164.1	14.3	0.7	92.3	28851
Growmark FS	67	6296VT3	151.1	15.9	2.0	85.0	28474
Hubner Seed	49	H5505VT3P	172.5	14.4	0.7	97.0	27343
Hubner Seed	50	H5555VT3	185.0*	15.0	0.6	104.1	28851
Hubner Seed	54	H6330GENSS	172.5	14.7	0.0	97.0	28474
Mycogen	46	2V732	199.1*	15.9	2.0	112.0	28474
Mycogen	48	2E694	144.8	16.3	1.3	81.4	28663
Mycogen ⁵	89	ST-6208	152.6	13.7	4.8	85.8	28474
Mycogen ⁵	90	2K662	167.5	14.1	0.0	94.2	28097
Mycogen ⁵	91	2D692	156.5	16.9	2.0	88.0	27909
NK	8	N61P-3000GT	172.9	14.3	0.0	97.2	27720
NK	9	N68B-3000GT	206.5*	15.7	8.5	116.1	28286
NK	10	N72Q-3000GT	186.2*	16.5	2.7	104.7	28097
Pioneer (Check)	86	34R67	183.4*	14.5	0.7	103.2	27343
RPM	43	725HRQ™	206.1*	16.3	0.0	115.9	28851
T.A Seeds	71	TA657-13VP	210.3*	16.0	2.0	118.3	29040
T.A Seeds (Check)	74	TA717-20	148.4	18.9	0.7	83.5	28097
Trial Mean			177.8	15.8	2.4		28076
LSD_{0.10}			28.9	1.9	6.6		NS
CV%			12.0				

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.

⁵Hybrids included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 14b. Performance of mid-season maturity hybrids evaluated following replant due to glyphosate application to hybrid test site at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2010.

Brand/Company	Entry Test Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	22	A0606CBLL	176.1*	11.5	7.2	113.4	29081
Augusta	23	A0720CBLL	161.1*	12.1	2.0	103.8	30179
Dekalb (Check)⁴	62	DKC63-14 (VT3)	173.0*	11.1	1.0	111.4	29356
Pioneer (Check)	86	34R67	131.5	10.8	1.9	84.7	29081
T.A Seeds	70	TA590-00	145.5	12.1	8.5	93.7	26063
T.A Seeds	72	TA656-00	141.3	12.5	7.1	91.0	27161
T.A Seeds (Check)	74	TA717-20	152.5	13.0	4.2	98.2	26338
T.A Seeds ⁵	78	TA688-00	161.1*	10.9	10.6	103.7	28532
Trial Mean			155.3	11.8	5.3		28224
LSD_{0.10}			18.7	1.2	5.3		1829
CV%			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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

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

Table 15a. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	24	A7664VT3	177.4*	19.3	4.5	107.7	28851
Augusta	25	A6164GT3	153.0*	20.1	3.2	92.8	29417
Augusta	30	A6365GT	150.8	17.7	13.4	91.5	26023
Dekalb	63	DKC63-84 (VT3)	154.2*	16.5	15.5	93.6	28097
Dekalb	64	DKC64-24 (VT3)	159.2*	16.8	1.3	96.6	29040
Dyna-Gro	5	57V59	177.7*	16.7	4.7	107.8	29040
Dyna-Gro	6	57V21	183.1*	18.5	0.6	111.1	28474
Dyna-Gro	7	V5683VT3	163.0*	18.3	9.5	98.9	27720
Hubner Seed	51	H5655VT3	166.4*	18.6	4.0	101.0	27343
Hubner Seed	52	H5707VT3	176.9*	19.1	1.3	107.4	28474
Hubner Seed	53	H5909VT3P	151.7*	19.8	2.1	92.1	27343
Mycogen	47	2G847	152.0*	19.1	0.0	92.2	27909
NK	11	N74R-3000GT	178.7*	19.1	2.6	108.4	27531
Pioneer (Check)⁴	87	33N58	167.4*	16.3	4.1	101.6	26211
RPM	45	728HXR™	167.8*	22.4	7.6	101.8	29606
T.A Seeds	75	TA778-13V	150.4	17.5	0.0	91.3	26966
T.A Seeds	77	TA790-18	172.0*	18.9	7.3	104.4	27154
Trial Mean			162.5	18.6	4.8		27953
LSD_{0.10}			31.8	2.7	NS		1594
CV%			14.1				

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 15b. Performance of full season maturity hybrids evaluated following replant due to glyphosate application to hybrid test site at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	26	A6166CBLL	134.8*	13.2	12.5	106.0	28807
Augusta	29	A6867CBLL	147.2*	14.2	14.6	115.7	26338
Augusta ⁵	38	0602C	99.2	16.3	19.9	77.9	31276
Augusta (Check)⁴	65	A6164CBLL	143.6*	13.3	4.8	112.9	28532
Augusta (Check)	66	A007	128.8*	11.4	13.1	101.3	29904
Clarks	84	CL715C	109.4	12.9	16.0	86.0	27984
Clarks	85	CL717C	121.0*	15.3	15.7	95.1	28807
Doebler	44	721XY	96.6	13.5	13.2	76.0	24692
Pioneer (Check)	87	33N58	134.0*	10.7	14.3	105.3	28532
T.A Seeds	73	TA717-11	134.4*	13.4	17.6	105.7	27984
T.A Seeds	76	TA765-00	131.6*	13.6	16.7	103.5	29630
Trial Mean			127.2	13.4	14.3		28532
LSD_{0.10}			30.9	1.6	NS		NS
CV%			17.1				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

*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 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	16	2855GT3	40.3*	13.0	11.1	98.2	28740
Augusta	18	A2852GTCBLL	34.0*	13.7	9.5	82.6	27734
Augusta	33	A2752GT3	12.3	15.0	10.2	29.9	26414
Dekalb	55	DKC52-59 (VT3)	63.2*	13.7	3.6	153.7	27280
Dekalb	56	DKC54-16 (VT3)	54.0*	13.0	3.7	131.5	26495
Dekalb (Check)⁴	57	DKC57-50 (VT3)	52.7*	12.4	4.6	128.3	25733
Doebler	42	679GRQ	40.2*	13.7	2.0	97.8	25870
Dyna-Gro	1	D44SS49	46.1*	13.3	8.8	112.2	26862
Growmark FS	39	5099VT3	19.2	16.7	3.2	46.8	25845
Growmark FS	68	5595VT3	45.1*	11.6	3.0	109.8	25948
Pioneer (Check)	88	35F44	57.8*	13.8	2.3	140.5	26957
RPM	40	615HRQ™	19.0	16.1	0.7	46.2	25655
RPM	41	633HXR™	30.5	15.3	1.3	74.3	26607
T.A Seeds	69	TA565-18	61.3*	12.7	4.0	149.2	26076
Trial Means			41.1	13.9	4.9		26587
LSD_{0.10}			31.4	1.8	NS		NS
CV%			49.1%				

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 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	19	A5337EVT3	43.3	18.0	5.4	66.9	27850
Augusta	21	A5460GT3D	50.3	20.6	4.6	77.6	27812
Augusta	27	A5558VT3	84.3*	15.4	3.7	130.1	28029
Augusta	28	A5461GTCBLL	73.2*	15.6	4.9	112.9	28971
Augusta	31	A5462GT3	70.4*	18.7	5.8	108.6	29281
Dekalb	58	DKC58-83 (GENVT3P)	50.2	17.0	7.2	77.5	30244
Dekalb	59	DKC61-35 (GENVT3P)	77.6*	17.2	3.6	119.8	30663
Dekalb	60	DKC62-54 (VT3)	67.3*	17.5	1.4	103.8	27380
Dekalb	61	DKC62-97 (GENVT3P)	90.8*	15.4	1.2	140.1	29729
Dekalb (Check)⁴	62	DKC63-14 (VT3)	50.8	21.0	1.9	78.4	29726
Dekalb ⁵	80	DKC61-21	81.2*	17.5	0.7	125.3	30698
Dekalb ⁵	81	DKC61-22	73.5*	15.7	5.5	113.4	29241
Dekalb ⁵	82	DKC61-69VT3	85.9*	14.2	7.6	132.5	31719
Dekalb ⁵	83	DKC61-72	62.6	19.3	0.7	96.6	30405
Dyna-Gro	2	D49VP59	61.9	14.4	9.7	95.5	28326
Dyna-Gro	3	56Q86	52.9	14.9	4.8	81.6	27981
Dyna-Gro	4	57V40	61.6	16.3	3.7	95.1	27300
Garst	12	85E98-3000GT	45.8	16.8	2.0	70.8	27569
Garst	13	84U58-3000GT	76.7*	14.9	0.9	118.4	28309
Garst	14	84J30-3000GT	57.8	15.9	4.2	89.2	29305
Growmark FS	67	6296VT3	64.8	16.5	2.6	99.9	27371
Hubner Seed	49	H5505VT3P	81.7*	15.2	0.0	126.1	27934
Hubner Seed	50	H5555VT3	76.6*	18.2	0.0	118.2	29498
Hubner Seed	54	H6330GENSS	74.0*	15.9	1.5	114.1	29317
Mycogen	46	2V732	72.3*	17.5	3.6	111.5	28523
Mycogen	48	2E694	65.5	16.8	1.2	101.0	29195
Mycogen ⁵	89	ST-6208	59.6	13.8	2.4	91.9	28613
Mycogen ⁵	90	2K662	57.5	15.5	3.9	88.7	27200
Mycogen ⁵	91	2D692	51.5	20.9	0.0	79.5	29803
NK	8	N61P-3000GT	58.0	15.0	13.1	89.6	27207
NK	9	N68B-3000GT	62.8	15.6	4.5	96.9	30125
NK	10	N72Q-3000GT	70.0*	15.6	3.5	108.0	28870
Pioneer (Check)	86	34R67	67.2*	15.3	0.0	103.6	28753
RPM	43	725HRQ™	43.0	17.1	4.6	66.4	30384
T.A Seeds	71	TA657-13VP	59.4	15.3	1.9	91.7	29035
T.A Seeds (Check)	74	TA717-20	52.3	20.7	4.2	80.7	29011
Trial Means			64.8	16.7	3.5		28927
LSD_{0.10}			24.3	3.0	3.2		NS
CV%			27.4%				

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.

⁵Hybrids included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

*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 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	24	A7664VT3	55.6*	21.6	0.7	120.8	28321
Augusta	25	A6164GT3	51.5*	17.4	1.4	111.9	29278
Augusta	30	A6365GT	35.1	18.5	8.1	76.3	27206
Clarks	84	CL715C	43.0	18.3	4.3	93.5	28845
Clarks	85	CL717C	49.1*	16.0	4.6	99.9	29574
Dekalb	63	DKC63-84 (VT3)	49.9*	14.6	6.1	108.6	30616
Dekalb	64	DKC64-24 (VT3)	56.1*	14.5	0.7	122.0	29085
Dyna-Gro	5	57V59	49.1*	16.0	4.6	106.8	29574
Dyna-Gro	6	57V21	39.9	19.6	3.6	86.7	29045
Dyna-Gro	7	V5683VT3	39.6	23.2	0.8	86.1	27581
Hubner Seed	51	H5655VT3	41.3	14.5	0.0	89.7	28258
Hubner Seed	52	H5707VT3	65.7*	17.2	1.9	142.7	31294
Hubner Seed	53	H5909VT3P	45.2	19.7	2.6	98.2	28098
Mycogen	47	2G847	55.0*	18.6	2.6	119.5	30272
NK	11	N74R-3000GT	57.5*	20.0	0.0	125.0	28425
Pioneer (Check)⁴	87	33N58	39.9	19.6	3.6	106.8	29045
RPM	45	728HXR™	25.7	19.0	2.1	55.9	28152
T.A Seeds	75	TA778-13V	37.2	15.4	1.4	80.8	29964
T.A Seeds	77	TA790-18	34.1	18.9	8.1	74.2	28831
Trial Means			46.0	18.1	2.9		28991
LSD_{0.10}			16.9	3.3	4.3		NS
CV%			26.6%				

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 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	16	2855GT3	121.5	16.9	0.7	103.5	25998
Augusta	17	A0607CBLL	130.2*	17.0	3.0	110.9	25621
Augusta	18	A2852GTCBLL	94.1	14.7	5.6	80.1	27316
Augusta	20	A5457	96.7	17.1	12.5	82.3	27693
Augusta	32	A2847LL	112.7	17.2	4.6	96.0	27881
Augusta	33	A2752GT3	106.2	15.7	2.5	90.5	28823
Augusta	34	A2850LL	117.9	15.0	7.5	100.4	29389
Augusta	35	A2854HXLL	111.3	16.1	0.0	94.8	29577
Augusta	36	A2857	146.4*	16.5	4.7	124.7	28635
Augusta	37	2851LLD	83.4	14.4	1.3	71.0	29389
Dekalb	55	DKC52-59 (VT3)	129.5*	15.8	3.8	110.3	29200
Dekalb	56	DKC54-16 (VT3)	145.7*	16.3	0.0	124.1	27881
Dekalb (Check)⁴	57	DKC57-50 (VT3)	113.0	17.0	0.0	96.2	29012
Doebler's	42	679GRQ	130.1*	16.6	0.0	110.8	27881
Dyna-Gro	1	D44SS49	90.3	14.9	6.3	76.9	26751
Growmark FS	39	5099VT3	155.0*	17.0	0.0	132.0	29577
Growmark FS	68	5595VT3	119.0	14.4	2.0	101.4	27881
Pioneer (Check)	88	35F44	111.9	17.4	0.0	95.3	28823
RPM	40	615HRQ™	114.6	16.7	1.3	97.6	28258
RPM	41	633HXR™	108.9	22.7	1.3	92.8	29577
T.A Seeds	69	TA565-18	124.6*	16.9	2.0	106.1	26751
T.A Seeds ⁵	79	TA545-08	120.5	16.6	2.0	102.7	28823
Trial Mean			117.1	16.5	2.9		28189
LSD_{0.10}			33.3	2.6	NS		NS
CV%			20.7%				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

*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 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	19	A5337EVT3	129.6	18.5	1.3	98.4	28258
Augusta	21	A5460GT3D	98.0	19.3	4.5	74.4	28823
Augusta	22	A0606CBLL	130.3	19.5	0.0	99.0	26751
Augusta	23	A0720CBLL	152.4*	20.9	0.0	115.7	29954
Augusta	27	A5558VT3	148.7*	17.0	2.2	112.9	27316
Augusta	28	A5461GTCBLL	128.7	18.5	2.2	97.8	27505
Augusta	31	A5462GT3	122.3	19.6	2.8	92.8	27693
Dekalb	58	DKC58-83 (GENVT3P)	151.5*	17.0	0.0	115.0	26939
Dekalb	59	DKC61-35 (GENVT3P)	155.0*	17.5	1.3	117.7	28823
Dekalb	60	DKC62-54 (VT3)	141.6*	18.0	1.4	107.5	28823
Dekalb	61	DKC62-97 (GENVT3P)	143.1*	19.1	0.0	108.6	26751
Dekalb (Check)⁴	62	DKC63-14 (VT3)	167.0*	18.4	2.7	126.8	28258
Dekalb ⁵	80	DKC61-21	139.1*	17.1	0.0	105.6	29389
Dekalb ⁵	81	DKC61-22	120.2	16.5	6.8	91.3	29765
Dekalb ⁵	82	DKC61-69VT3	149.0*	19.3	0.0	113.1	28258
Dekalb ⁵	83	DKC61-72	148.4*	19.0	0.0	112.7	28258
Dyna-Gro	2	D49VP59	116.9	18.0	0.7	88.8	26374
Dyna-Gro	3	56Q86	115.6	19.6	2.9	87.7	27505
Dyna-Gro	4	57V40	116.5	17.7	1.2	88.5	27881
Garst	12	85E98-3000GT	125.9	18.7	9.0	95.6	22418
Garst	13	84U58-3000GT	111.2	16.8	1.8	84.5	28635
Garst	14	84J30-3000GT	92.0	21.0	18.0	69.9	24679
Growmark FS	67	6296VT3	174.7*	18.9	1.3	132.7	26939
Hubner Seed	49	H5505VT3P	157.0*	17.2	2.7	119.2	28070
Hubner Seed	50	H5555VT3	136.6	18.3	2.0	103.7	28635
Hubner Seed	54	H6330GENSS	134.6	17.5	0.6	102.2	29200
Mycogen	46	2V732	137.8*	18.3	0.6	104.6	28447
Mycogen	48	2E694	137.8*	17.7	2.7	104.6	28258
Mycogen ⁵	89	ST-6208	128.1	15.6	3.2	97.3	27316
Mycogen ⁵	90	2K662	105.4	16.5	5.4	80.0	27881
Mycogen ⁵	91	2D692	103.5	17.3	5.9	78.6	27316
NK	8	N61P-3000GT	122.5	17.2	0.7	93.0	28447
NK	9	N68B-3000GT	147.0*	17.0	0.6	111.6	29577
NK	10	N72Q-3000GT	137.6*	18.7	0.7	104.5	28823
Pioneer (Check)	86	34R67	144.3*	18.8	0.6	109.6	29389
RPM	43	725HRQ™	120.6	18.7	0.0	91.5	27881
T.A Seeds	70	TA590-00	123.7	18.0	0.9	93.9	22041
T.A Seeds	71	TA657-13VP	150.2*	17.0	0.0	114.0	29200
T.A Seeds	72	TA656-00	111.8	19.3	0.8	84.9	25621
T.A Seeds (Check)	74	TA717-20	127.8	19.9	2.9	97.1	26563
T.A Seeds ⁵	78	TA688-00	95.1	17.7	7.7	72.2	28258
Trial Mean			131.7	18.2	2.4		27730
LSD_{0.10}			37.2	2.6	6.1		2576
CV%			20.8%				

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.

⁵Hybrids included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

*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 2010.

Brand/Company Name	Test Entry Number	Hybrid Name ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Relative Yield	Population (plants/A) Harvested
Augusta	24	A7664VT3	140.8*	19.7	0.7	110.8	27881
Augusta	25	A6164GT3	103.1	18.1	0.0	81.2	28823
Augusta	26	A6166CBLL	149.4*	19.6	0.6	117.5	28258
Augusta	29	A6867CBLL	161.7*	20.0	0.0	127.2	29577
Augusta	30	A6365GT	100.6	18.3	2.7	79.1	27881
Augusta ⁵	38	0602C	82.3	21.0	10.4	64.8	28635
Augusta (Check)	65	A6164CBLL	144.6*	21.4	0.0	113.8	29012
Augusta (Check)⁴	66	A007	89.7	22.2	5.4	70.6	28258
Clarks	84	CL715C	136.9*	21.6	2.6	107.7	27316
Clarks	85	CL717C	119.4	18.8	0.7	93.9	26563
Dekalb	63	DKC63-84 (VT3)	167.1*	18.8	0.0	131.5	27128
Dekalb	64	DKC64-24 (VT3)	120.7	17.6	4.5	95.0	29012
Doebler	44	721XY	115.5	21.0	5.5	90.9	27693
Dyna-Gro	5	57V59	106.3	16.9	0.0	83.6	28070
Dyna-Gro	6	57V21	109.5	20.5	0.7	86.2	28823
Dyna-Gro	7	V5683VT3	122.4	18.7	4.8	96.3	27316
Hubner Seed	51	H5655VT3	124.5	18.3	0.6	97.9	28447
Hubner Seed	52	H5707VT3	146.5*	18.7	3.7	115.3	26751
Hubner Seed	53	H5909VT3P	148.1*	19.5	0.7	116.5	28070
Mycogen	47	2G847	134.5*	20.2	0.7	105.8	25244
NK	11	N74R-3000GT	147.2*	22.7	3.8	115.8	30330
Pioneer (Check)	87	33N58	129.8	19.4	4.3	102.2	26186
RPM	45	728HXR™	132.9	21.9	3.2	104.6	27505
T.A Seeds	73	TA717-11	123.6	19.7	0.6	97.2	28258
T.A Seeds	75	TA778-13V	129.4	18.4	1.5	101.8	26186
T.A Seeds	76	TA765-00	131.4	20.2	1.9	103.4	29765
T.A Seeds	77	TA790-18	114.3	20.6	2.0	89.9	29200
Trial Mean			127.1	19.8	2.3		28007
LSD_{0.10}			33.0	2.0	4.4		1950
CV%			18.9%				

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.

⁵Hybrid included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

*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 in Maryland during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name	Relative Yield					
			Avg. 5 Sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta ²	36	A2857	117.4	116.1	111.1	117.6	124.7	NT
Pioneer (Check) ^{1,3}	88	35F44	114.1	106.5	107.3 (93.2) ⁵	79.6 (125.2) ⁵	95.3	140.5
T.A Seeds	69	TA565-18	112.7	110.8	95.8	101.5	106.1	149.2
Dekalb	56	DKC54-16 (VT3)	112.2	96.3	106.4	102.7	124.1	131.5
Dekalb	55	DKC52-59 (VT3)	109.9	86.5	99.0	99.8	110.3	153.7
Dekalb (Check) ¹	57	DKC57-50 (VT3)	109.7	104.5	98.1 (115.4) ⁵	121.8 (105.3) ⁵	96.2	128.3
T.A Seeds ⁴	79	TA545-08	103.8	100.4	94.1	117.9	102.7	NT
Augusta	17	A0607CBLL	103.4	105.8	98.9	98.1	110.9	NT
Growmark FS	68	5595VT3	102.7	97.2	102.5	102.5	101.4	109.8
Augusta	35	A2854HXLL	101.9	88.9	111.5	112.3	94.8	NT
Augusta	20	A5457	101.1	112.5	109.5	99.9	82.3	NT
Dyna-Gro	1	D44SS49	99.3	109.5	95.4	102.3	76.9	112.2
Doebblers	42	679GRQ	98.2	98.2	96.5	87.5	110.8	97.8
RPM	41	633HXR™	96.8	90.7	122.7	103.3	92.8	74.3
Augusta	16	2855GT3	96.0	94.3	93.1	90.7	103.5	98.2
Augusta	18	A2852GTCBLL	94.1	103.3	102.5	102.1	80.1	82.6
Growmark FS	39	5099VT3	93.7	86.7	95.8	107.0	132.0	46.8
Augusta	32	A2847LL	88.9	98.2	86.8	74.6	96.0	NT
Augusta	37	2851LLD	88.3	90.1	99.8	92.4	71.0	NT
RPM	40	615HRQ™	85.7	96.2	93.3	95.1	97.6	46.2
Augusta	33	A2752GT3	84.3	106.2	91.2	103.9	90.5	29.9
Augusta	34	A2850LL	83.8	95.5	82.8	56.6	100.4	NT
Trial Mean (bu/acre)			130.6	146.7	160.9 (152.6)	161.9 (141.8)	117.1	41.1

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 sites tested.

³Hybrids highlighted in blue have relative yield ratings of 100 or greater at a minimum of 4 testing sites.

⁴Hybrid included for a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

⁵Relative yield scores in parentheses refer to replanted tests.

Table 23. Relative yield scores for mid-season hybrids evaluated in Maryland during 2010.

Brand/Company Name	Test Entry Number	Hybrid Name	Relative Yield %					
			Avg. 5 Sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Dekalb ²	82	DKC61-69VT3	114.8	106.5	105.7	116.1	113.1	132.5
Augusta ³	28	A5461GTCBLL	110.3	112.2	116.3	112.3	97.8	112.9
Dekalb ³	61	DKC62-97 (GENVT3P)	109.6	100.2	93.8	105.5	108.6	140.1
Augusta ³	27	A5558VT3	109.5	114.1	88.6	101.6	112.9	130.1
Dekalb ³	59	DKC61-35 (GENVT3P)	109.0	104.1	87.5	115.8	117.7	119.8
Dekalb ^{3,4}	81	DKC61-22	108.4	119.9	104.9	112.5	91.3	113.4
Hubner Seed	49	H5505VT3P	108.1	105.9	97.0	92.5	119.2	126.1
Augusta	23	A0720CBLL	107.6	94.1	103.8	116.7	115.7	NT
NK	9	N68B-3000GT	107.1	118.6	116.1	92.1	111.6	96.9
T.A Seeds	71	TA657-13VP	106.8	92.4	118.3	117.6	114.0	91.7
Dekalb (Check) ¹	62	DKC63-14 (VT3)	106.7	120.4	96.3 (111.4) ⁵	116.3 (97.1) ⁵	126.8	78.4
Growmark FS	67	6296VT3	106.3	116.4	85.0	97.3	132.7	99.9
NK ⁴	10	N72Q-3000GT	106.0	97.6	104.7	115.0	104.5	108.0
Hubner Seed ⁴	50	H5555VT3	105.1	112.4	104.1	87.3	103.7	118.2
Augusta	22	A0606CBLL	103.7	118.9	113.4	83.6	99.0	NT
Dekalb	60	DKC62-54 (VT3)	102.5	96.1	95.8	109.4	107.5	103.8
Dekalb ⁴	83	DKC61-72	102.3	117.7	97.3	87.3	112.7	96.6
Garst	13	84U58-3000GT	101.6	87.8	102.9	114.5	84.5	118.4
Mycogen	46	2V732	101.6	98.8	112.0	81.2	104.6	111.5
Augusta	31	A5462GT3	100.7	98.3	116.1	87.9	92.8	108.6
Hubner Seed	54	H6330GENSS	99.6	105.6	97.0	79.0	102.2	114.1
Dekalb ⁴	80	DKC61-21	99.6	93.4	94.2	79.6	105.6	125.3
Augusta	19	A5337EVT3	99.0	111.2	104.6	113.9	98.4	66.9
Pioneer (Check) ^{1,3}	86	34R67	99.0	100.8	103.2 (84.7) ⁵	86.6 (104.7) ⁵	109.6	103.6
Dyna-Gro	2	D49VP59	98.5	106.9	105.8	95.5	88.8	95.5
NK	8	N61P-3000GT	98.4	111.6	97.2	100.7	93.0	89.6
Dekalb	58	DKC58-83 (GENVT3P)	96.5	89.4	101.9	98.6	115.0	77.5
Dyna-Gro	4	57V40	95.7	85.9	111.8	97.2	88.5	95.1
Garst	12	85E98-3000GT	94.3	94.5	105.7	104.9	95.6	70.8
Garst	14	84J30-3000GT	94.3	110.2	92.3	109.8	69.9	89.2
Mycogen	48	2E694	93.7	100.7	81.4	80.7	104.6	101.0
T.A Seeds ¹	74	TA717-20	93.7	95.3	83.5 (98.2) ⁵	96.7 (104.4) ⁵	97.1	80.7
T.A Seeds ⁴	78	TA688-00	93.4	95.5	103.7	102.1	72.2	NT
RPM	43	725HRQ™	92.5	89.9	115.9	98.8	91.5	66.4
Mycogen ⁴	89	ST-6208	92.0	81.4	85.8	103.4	97.3	91.9
Augusta	21	A5460GT3D	90.6	107.2	99.1	94.6	74.4	77.6
Mycogen ⁴	90	2K662	89.5	84.8	94.2	99.8	80.0	88.7
T.A Seeds	70	TA590-00	88.3	92.0	93.7	73.6	93.9	NT
Dyna-Gro	3	56Q86	87.6	79.9	96.2	92.5	87.7	81.6
Mycogen ⁴	91	2D692	86.4	79.7	88.0	106.0	78.6	79.5
T.A Seeds	72	TA656-00	86.2	51.1	91.0	117.7	84.9	NT
Trial Mean (bu/acre)			141.4	150	177.8 (155.3)⁵	176.5 (156.4)⁵	131.7	64.8

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

^{2,3}Hybrids in yellow have relative yield ratings of 100 or greater at all testing locations and those highlighted in blue have ratings of 100 or greater at a minimum of 4 testing locations.

⁴Hybrids included for a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

⁵Relative yield scores in parentheses refer to replanted tests.

Table 24. Relative yield scores for full-season hybrids evaluated in Maryland during 2010.

Brand/Company Name	Test Entry No.	Hybrid Name	Relative Yield %					
			Average 5 Locations	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta ²	29	A6867CBLL	119.4	118.9	(115.7) ⁵	(115.6) ⁵	127.2	NT
Augusta (Check) ^{1,2}	65	A6164CBLL	116.0	119.0	(112.9) ⁵	(118.4) ⁵	113.8	NT
Hubner Seed ²	52	H5707VT3	115.0	107.1	107.4	102.4	115.3	121.1
NK ²	11	N74R-3000GT	113.5	118.0	108.4	100.5	115.8	116.6
Augusta ²	24	A7664VT3	109.1	100.9	107.7	105.2	110.8	102.4
Pioneer (Check) ¹	87	33N58	108.2	122.1	101.6 (105.3) ⁵	100.2 (119.2) ⁵	102.2	88.4
Hubner Seed	51	H5655VT3	107.5	105.0	101.0	105.1	97.9	128.4
Mycogen ³	47	2G847	106.9	114.0	92.2	102.9	105.8	136.0
T.A Seeds	73	TA717-11	106.0	100.9	(105.7) ⁵	(120.3) ⁵	97.2	NT
Dekalb	63	DKC63-84 (VT3)	105.1	90.3	93.6	101.3	131.5	121.5
Dyna-Gro	6	57V21	104.1	106.2	111.1	105.7	86.2	111.4
Augusta	26	A6166CBLL	103.0	86.9	(106.0) ⁵	(101.7) ⁵	117.5	NT
Hubner Seed	53	H5909VT3P	102.9	106.2	92.1	101.3	116.5	133.2
Dekalb	64	DKC64-24 (VT3)	102.7	94.9	96.6	105.0	95.0	118.8
Doeblers	44	721XY	98.5	106.6	(76.0) ⁵	(120.3) ⁵	90.9	NT
Dyna-Gro	5	57V59	96.9	79.6	107.8	106.9	83.6	107.6
Augusta	25	A6164GT3	96.1	102.0	92.8	92.7	81.2	87.2
Dyna-Gro	7	V5683VT3	95.7	102.4	98.9	94.8	96.3	106.4
T.A Seeds	76	TA765-00	94.7	80.5	103.5	91.4	103.4	NT
Clarks	85	CL717C	94.1	91.0	(95.1) ⁵	(90.6) ⁵	93.9	NT
T.A Seeds	75	TA778-13V	93.0	98.4	91.3	92.6	101.8	97.9
Clarks	84	CL715C	90.4	86.7	(86.0) ⁵	(78.3) ⁵	107.7	NT
Augusta	30	A6365GT	89.4	104.6	91.5	95.6	79.1	90.1
T.A Seeds	77	TA790-18	89.3	93.1	104.4	85.1	89.9	98.3
Augusta (Check) ¹	66	A007	87.6	89.6	(101.3) ⁵	(88.8) ⁵	70.6	NT
RPM	45	728HXR™	86.0	65.4	101.8	102.5	104.6	107.2
Augusta ⁴	38	0602C	76.4	107.8	(77.9) ⁵	(55.1) ⁵	64.8	NT
Trial Mean (bu/acre)			137.6	155.8	162.5 (127.2)	192.6 (146.7)	127.1	46.0

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 testing locations.

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

⁴Hybrid included for a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Department of Entomology.

⁵Relative yield scores in parentheses refer to replanted tests.