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2011 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 2011 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 2010 were included in the 2011 tests, gratis. These hybrids also are used as check hybrids. A fourth group 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.

During 2011, 103 hybrids were tested in one of three maturity group tests: (1) early season (23 hybrids; Table 4); (2) mid-season (50 hybrids; Table 5); and (3) full season (30 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 32 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

Farmers entered the 2011 growing season with adequate, to in some cases, slightly below normal soil moisture. This was the result of normal to less than normal winter precipitation across the state. Unlike the winter of 2009-2010 which experienced some near record snowfall events in December and again in February, most of Maryland received less than normal snowfall during 2010-2011. However, the winter of 2010-2011 was, on average, colder than has been experienced the past couple decades. Soils began warming in early April and were suitable for planting to start on the Lower Shore by mid-April. Corn planting during the next couple weeks continued to proceed at a slower than normal pace with only 22% of the crop reported in the ground by May 1, 13% less than the 5-year average. The first few days of May were dry and the planting pace picked up over the next two weeks with the 15 May report indicating that 78% of the crop was planted, a 7% increase over the 5-year average. Planting slowed during the next week as rainfall hampered farmers. Those farmers (the vast majority were located in the Central and Western counties of the state) who were not done by 15 May were unable to do anything for the next week to 10 days. Finally, weather improved during the last week of May allowing farmers to return to the fields. The May 29 crop progress report estimated corn planting at 90% complete, a 3% slower than average pace.

Although the crop had adequate soil moisture during May, temperatures were slightly below normal resulting in a below average rate for crop emergence with MDA reporting it to be 51% by May 22, a pace that was 15% below the five-year average. By early June, the 2011 crop was rated at 85% good to excellent condition, a slightly lower rating than for the same time in 2010. This lower rating was primarily the result of the Lower Shore and Southern Maryland regions having entered the season with precipitation deficits and then receiving 1-2 inches less than normal rainfall during May. This 85% good to excellent rating was as good as it was going to get for the crop as drought coupled with temperatures 4-5^{o} F higher than normal were commonplace across the majority of the state during June and July. By early August, the good to excellent ratings had reached the summer low of 29%. By end of July, soil moisture across the state was rated at only 15% adequate for both the surface and subsoil. Rainfall did return during August but for much of the crop it was too late. There was overall improvement in the crop status with the August rains but it primarily helped the later planted corn. Good to excellent ratings by late August had improved to 37%.

A dramatic change arrived at the end of August in the form of Hurricane Irene. This was followed a few days later by the remnants of Tropical Storm Lee becoming stationary over the region. The combined storms dumped high to excessive amounts of rain across much of Maryland with some reporting stations receiving over 20 inches. The winds that accompanied Hurricane Irene caused varying amounts of lodging with some areas having numerous fields that were flattened. Lodged corn was more prevalent on the Eastern Shore where higher wind speeds occurred.

Drought conditions during June and July caused much of the earlier planted corn to mature ahead of normal; 35% of the crop was reported mature by the end of August compared to the 5-year average of 21%. The drought coupled with the arrival of Hurricane Irene spurred some farmers to begin harvesting corn early with 16% of the crop reported shelled before Labor Day compared to the 5-year average of 9%. Wet conditions during September slowed the pace of harvest with ~45% reported done by the end of September compared to the five-year average of 50%. Harvest continued at a normal pace during October with 84% of the crop shelled by November 1 compared to an average of 86%.

Weather unfavorably dominated the 2011 corn crop. By late July it was general consensus that the 2011 crop was going to be similar to the 2010 drought impacted crop that produced 106 bu/acre. On November 9, Maryland Department of Agriculture's yield estimate for the 2011 crop was 105 bu/acre.

Test Results

The performance of the hybrids in the 2011 State Corn Hybrid Tests by location 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 population.

Similar patterns in growing season weather and low amounts of rainfall during June and July followed by the impacts of Irene and Lee felt across the state were also evident at the five testing sites (Table 3). Precipitation during May – July at Wye was approximately 3 inches below average. At Salisbury and Poplar Hill, where the drought started earlier, May – July precipitation totaled 6.2 and 5.8 inches, respectively; amounts that were approximately 60% of average. Conditions were better at the Western Shore locations where Keedysville received above normal rainfall in May, was very short in June followed by a nearly normal July. The later planting date at Keedysville combined with timely July rain events supported much better corn production at this location than was experienced in 2010. Clarksville experienced the least amount of drought stress during 2011 and was the best non-irrigated location. All locations had high to excessive rainfall amounts associated with Irene and Lee, but those events did little to change the yield outcome for the five sites.

Averaged over the five locations, yields for the 23 early season hybrids was 123 bu/acre, 145 bu/acre for the 50 mid-season hybrids, and 143 bu/acre for the 30 full season hybrids. Compared to 2010, these yields were 6% less for the early season hybrids, and 3% and 4% better than the mid and full season hybrids, respectively.

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 2011 (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. 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 2011.

Location	Soil Type	Previous crop	Fertilizer	Herbicides	Insecticide	Tillage	Plant date	Harvest date	Farm crew
Wye Research & Education (R&E) Center Queenstown, MD	Mattapex silt loam	Soybean	2 May 48 lb N/a 30% UAN Pre-plant Incorporated 8 June 130 lb/a UAN Dribble Sidedress Total 178-0-0	2 May Lexar @ 3 qt/a Pre-plant Incorporated	2 May Permup @ 6 oz./ac PPI	2 May Chisel plow & disk 3 May Field cultivator 2X	3 May	11 Oct	Mark Sultenfuss Joe Street Reese Stafford
Lower Eastern Shore R&E Center-Poplar Hill Quantico, MD	Mattapeake silt loam	Soybean followed by Wheat Cover Crop	7 April 230 lb/a 0-10-45-25 + 0.5% B 29 April 42 lb N/a as 30% UAN 24 May 125 lb N/a as 30% UAN Total 167-23-103- 57 S +1.1 B	15 April Gramoxone @ 24 oz/A + BiCep II Magnum @ 1.5 pt/A + 820Surf. @ 6 floz/A 17 May Lumax @ 2 qt/A + Atrazine @ 1.3 lb/A	None	No-till planted with trash wheels on planter	27 Apr	13 Sept	David Armentrout Fred Senkbeil Mike Kelly James Lynch Vivian Calder
Lower Eastern Shore R&E Center-Salisbury Salisbury, MD	Fort Mott loamy sand	Rye Cover Crop	6 April 230 lb/a 0-10-45-25 + 0.5% B 28 April 42 lb N/a as 30% UAN 27 May 100 lb N/a as 30% UAN 1 June 100 lb N/a as 30% UAN Total 242-23-103- 57 S+1.1 B	14 April Gramoxone @ 24 oz/a + BiCep II Magnum @ 1.5 pt/a + 820Surf. @ 6 floz/a 18 May Lumax @ 2 qt/a + Atrazine @ 1.3 lb/a	None	No-till planted with trash wheels on planter	28 Apr	15 Sept	David Armentrout Mike Kelly James Lynch Fred Senkbeil Vivian Calder
Central Maryland R&E Center - Clarksville Clarksville, MD	Delanco silt loam	Soybean	3 May 200 lb/a 7-18- 36 11 May 130 lb N/a as 30% UAN Total 144-36-72	11 May Bicep II Mag 2 qt/acre Gramoxone Inteon 1.5 pt/acre Surfactant 1 pt/acre	None	No-till planted with trash wheels on planter	10 May	6 Oct	David Justice Timothy Ridgley
Western Maryland R&E Center Keedysville, MD	Hagerstown silt loam	Soybean	13 May 130 lb N/acre Total 130-0-0	13 May Lumax 3 qt/acre Simazine 1 qt/acre Gramoxone Inteon 1 qt/acre	None	No-till planted with trash wheels on planter	12 May	7 Oct	Timothy Ellis Douglas Price

Table 2. Seed brands and companies represented in the 2011 Maryland corn hybrid tests.

Brand	Address
Agra	Clark Seeds ,Inc.,1467 Seven Hickories Rd, Clayton, DE19938
Augusta Seed	Augusta Seed Corporation, 473 Tisdale Farm Lane, Staunton, VA 24401
Clark's	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/Crop Production Services, 15277 Richmond Tappahannock Hwy, PO Box 409, St. Stephens Church, VA 23148
Garst	Syngenta Seeds, 11055 Wayzata Blvd., Minnetonka, MN 55305
Growmark FS	Growmark FS LLC., 308 N.E. Front Street, Milford, DE 19963
Hubner Seed	Hubner Seed, 10280 West SR 28, West Lebanon, IN 47991
Mycogen	Mycogen Seeds, 9330 Zionsville Rd., Indianapolis, IN 46268
NK	Syngenta Seeds, 11055 Wayzata Blvd., Minnetonka, MN 55305
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 2011.

Month	Wye	Poplar Hill	Salisbury[1]	Keedysville	Clarksville
	----------Inches----------				
April	4.29	3.40	2.00	6.92	4.95
May	2.66	1.20	1.20 (0.8)	5.05	2.63
June	2.40	2.20	1.20 (3.1)	0.91	1.70
July	2.87	2.40	3.80 (2.3)	2.86	6.00
August	15.70	9.50	11.80 (1.3)	5.70	5.92
September	8.85	4.20	4.40 (0)	4.04	7.32
2011 Total	**36.77**	**22.9**	**24.4 (7.5)**	**25.48**	**28.52**
Long Term Average	**22.63**	**22.32**	**23.88**	**21.4**	**24.16**

[1]The 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 2011.

Brand/Company Name	Hybrid Name	Entry No.	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta Seed	A0607CBLL	34	107	CBLL	Cruiser 250
Augusta Seed	A2340GT3000	29	90	GT3000	Cruiser 250
Augusta Seed	A2750GT3000	32	100	GT3000	Cruiser 250
Augusta Seed	A2852GT3000A	37	102	GT3000	Avicta 500
Augusta Seed	A2854CBLL	35	104	CBLL	Cruiser 250
Augusta Seed	A2954GT3000A	51	104	GT3000	Avicta 500
Augusta Seed	A5457	36	107	Conventional	Cruiser 1250
Augusta Seed	A5557	50	107	Conventional	Cruiser 250
Augusta Seed[2]	**A2857**	**33**	**107**	**Conventional**	**Cruiser 250**
Dekalb	DKC52-59 (VT3)	7	102	VT3	Poncho 250
Dekalb[2]	**DKC57-50 (VT3)**	**9**	**107**	**VT3**	**Poncho 250**
Dekalb[3]	DKC50-47 (RR2)	99	100	RR2	Poncho 250
Dekalb[3]	DKC53-45 (GENSS)	8	103	GENSS	Acceleron 250
Dyna-Gro	D45VC90	1	105	GEN VT2P	Poncho 250
Garst	85V24-3000GT	69	106	3000GT	Cruiser 250
Hubner Seed	H5222VT3	19	101	VT3	Acceleron, Poncho 500, Votivo
Hubner Seed	H5288VT3P	20	104	VT3P	Acceleron, Poncho 500, Votivo
Hubner Seed	H5333VT3P	21	107	VT3P	Acceleron, Poncho 500, Votivo
NK	N56V-3000GT	65	106	3000GT	Cruiser 250
Pioneer[2]	**P35K03**	**100**	**106**	**HX1/LL/RR2**	**Cruiser 250**
T.A. Seeds	TA545-20	75	104	Agrisure 3000GT	Poncho 250
T.A. Seeds	TA565-20	73	106	Agrisure 3000GT	Poncho 250
T.A. Seeds[3]	TA565-00	96	106	Conventional	Poncho 250

[1]Genetic trait codes:

Bt ECB, CB, and HX1 for Bt (*Bacillus thuringiensis*) events that provide protection for European corn borer.

RW and CRW designate protection against corn rootworm.

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.

GEN VT2P protects against above ground insects and is glyphosate tolerant.

Agrisure 3000GT, 3000GT, GT3000, 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 is a triple stack package for corn borer, corn rootworm and glyphosate herbicide tolerance.

GEN VT3P is a triple stack package that protects against European corn borer, Southwest corn borer, corn earworm, fall armyworm, and corn rootworm and is glyphosate tolerant.

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 designations refer to hybrids that have eight traits combined or 'stacked' together – 6 for insect resistance (Bt) and 2 for herbicide tolerance.

Viptera 3111 designates multi-pest control of 14 above and below ground insects plus glyphosate and glufosinate herbicide tolerance.

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

[3]Hybrid included for 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 2011.

Brand/ Company Name	Hybrid Name	Entry Test No.	Relative Maturity	Genetic Traits[1]	Seed Treatment
Agra	711GT3000	83	112	GT3000	Cruiser 250
Augusta Seed	A0606GTCBLLA	42	111	GTCBLL	Avicta 500
Augusta Seed	A0720CBLL	41	112	CBLL	Cruiser 250
Augusta Seed	A5337EVT3	39	111	VT3	Poncho 250
Augusta Seed	A5461GTCBLLA	38	111	GTCBLL	Avicta 500
Augusta Seed	A5462GT3000A	43	112	GT3000	Avicta 500
Augusta Seed	A5558VT3	40	110	VT3	Poncho 250
Augusta Seed	A5560VT3	31	110	VT3	Poncho 250
Augusta Seed	A5658GTCBLL	30	108	GTCBLL	Cruiser 250
Dekalb	DKC61-35 (GENVT3P)	10	111	GENVT3P	Acceleron 250
Dekalb	DKC61-49 (GENVT2P)	11	111	GENVT2P	Acceleron 250
Dekalb	DKC61-88 (GENVT3P)	12	111	GENVT3P	Acceleron 250
Dekalb	DKC62-58 (GENVT2P)	13	112	GENVT2P	Acceleron 250
Dekalb	DKC62-97 (GENVT3P)	14	112	GENVT3P	Acceleron 250
Dekalb	DKC63-25 (GENVT2P)	15	113	GENVT2P	Acceleron 250
Dekalb	DKC63-87 (GENVT2P)	16	113	GENVT2P	Acceleron 250
Dekalb[2]	**DKC61-69 (VT3)**	**87**	**111**	**VT3**	**Acceleron 250**
Dekalb[2]	**DKC63-14 (VT3)**	**86**	**113**	**VT3**	**Acceleron 250**
Dekalb[3]	DKC61-21 (GENSS)	97	111	GENSS	Acceleron 250
Dekalb[3]	DKC61-22 (RR2)	98	111	RR2	Acceleron 250
Dyna-Gro	D51SS40	2	111	SMART STAX	Poncho 250
Dyna-Gro	D53VP61	4	113	Bt ECB CRW RR	Poncho 250
Dyna-Gro	D54VP81	5	113	Bt ECB CRW RR	Poncho 250
Garst	83R38-3000GT	71	113	3000GT	Cruiser 250
Garst	84A40-3000GT	70	112	3000GT	Cruiser 250
Garst[3]	8489GT	88	113	RR2	Cruiser 250
Garst[3]	84U58-3000GT	89	111	3000GT	Cruiser 250
Garst[3]	84U58-3111	90	111	VIPTERA 3111	Cruiser 250
Growmark FS	6296VT3	82	112	VT3	Cruiser 250
Growmark FS	6313VP3	81	113	GENVT3P	Cruiser 250
Hubner Seed	H4600VT2P	24	112	VT2P	Acceleron, Poncho 500, Votivo
Hubner Seed	H5609VT3P	23	112	VT3P	Acceleron, Poncho 500, Votivo
Hubner Seed	H6652GENSS	22	110	GENSS	Acceleron, Poncho 500, Votivo
Mycogen	2A695	63	110	HX RR LL	Cruiser 250
Mycogen	2H736	64	113	HX RR LL	Cruiser 250
Mycogen	2V715	62	111	HX RR LL	Cruiser 250
Mycogen[3]	2V738	92	113	SMART STAX	Cruiser 250
NK	N68B-3000GT	66	112	3000GT	Cruiser 250
NK	N71B-GT/CB/LL	67	112	GT/CB/LL	Cruiser 250
NK	N74R-3000GT	68	113	3000GT	Cruiser 250
Pioneer[2]	**1395HR**	**102**	**113**	**HX1/LL/RR2**	**Cruiser 250**
Pioneer[2]	**34F97**	**101**	**111**	**HX1/LL/RR2**	**Cruiser 250**
RPM	633HXR™	57	110	HX1/LL/RR2	Cruiser 250
RPM	634HRQ™	58	110	HXX/LL/RR2	Cruiser 250
Southern States[3]	SS 684 GENSS	52	112	GENSS	Acceleron 250
Southern States[3]	SS 684 RR2	91	112	RR2	Acceleron 250
T.A Seeds	TA 587-22DP	74	108	CB,HX,GT,LL	Poncho 250
T.A Seeds	TA 720-20	77	113	CB,RW,GT,LL	Poncho 250
T.A Seeds[3]	TA 657-02	95	111	RR2	Poncho 250
T.A Seeds[3]	TA 657-13VP	76	111	VT3P	Poncho 250

[1]Refer to the bottom of Table 4 to see the descriptions of the trait codes.

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

[3]Hybrid included for 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 2011.

Brand/ Company Name	Hybrid Name	Entry Test No.	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta Seed	A6164CBLL	48	114	CBLL	Cruiser 1250
Augusta Seed	A6166GT3000A	47	116	GT3000	Avicta 500
Augusta Seed	A6465GTCBLL	49	115	GTCBLL	Cruiser 250
Augusta Seed	A6867GTCBLLA	45	117	GTCBLL	Avicta 500
Augusta Seed	A7664VT3	46	114	VT3	Cruiser 250
Augusta Seed[2]	**A6867CBLL**	**44**	**117**	**CBLL**	**Cruiser 1250**
Clarks	CL1014VT3	85	114	VT3	Cruiser 250
Clarks	CL1016VT3	84	116	VT3	Cruiser 250
Dekalb	DKC64-69 (GENVT3P)	17	114	VT3P	Acceleron 250
Dekalb	DKC65-19 (GENVT3P)	18	115	VT3P	Acceleron 250
Doebler's	674GRQ	61	115	Agrisure3000GT	Cruiser 250
Dyna-Gro	57V59	3	114	Bt ECB CRW RR	Poncho 250
Dyna-Gro	D55VC21	6	115	Bt ECB RR	Poncho 250
Garst	83Z99-GT/CB/LL	72	115	CB/LL/RW/GT	Cruiser 250
Hubner Seed	H4822VT2P	28	114	VT2P	Acceleron, Poncho 500, Votivo
Hubner Seed	H5709VT3P	25	114	VT3P	Acceleron, Poncho 500, Votivo
Hubner Seed	H5909VT3P	27	114	VT3P	Acceleron, Poncho 500, Votivo
Hubner Seed	H6762GENSS	26	114	GENSS	Acceleron, Poncho 500, Votivo
Pioneer[2]	**33D49**	**103**	**115**	**HX1/LL/RR2**	**Cruiser 250**
RPM	694HRQ™	59	114	HXX/LL/RR2	Cruiser 250
RPM	723HXR™	60	116	HX1/LL/RR2	Cruiser 250
Southern States	SS 755 GENVT3PRO	53	115	VT3P	Acceleron 250
Southern States	SS 787 GENVT3PRO	54	117	VT3P	Acceleron 250
Southern States	SS 788 GENVT3PRO	55	117	VT3P	Acceleron 250
Southern States	SS 818 GENVT3PRO	56	118	VT3P	Acceleron 250
T.A. Seeds	TA 789-20	80	117	CB,RW,GT,LL	Poncho 250
T.A. Seeds[3]	TA 717-00	94	114	Conventional	Poncho 250
T.A. Seeds[3]	TA 717-20	78	114	Agrisure 3000GT	Poncho 250
T.A. Seeds[3]	TA 778-02	93	115	RR2	Poncho 250
T.A. Seeds[3]	TA 778-28	79	116	Smart Stax	Poncho 250

[1]Refer to the bottom of Table 4 to see the descriptions of the trait codes.

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

[3]Hybrid included for 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 maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	34	A0607CBLL	113	104	21.8	66	25809
Augusta Seed	29	A2340GT3000	88	81	16.6	83	25998
Augusta Seed	32	A2750GT3000	98	90	18.0	96	26186
Augusta Seed	37	A2852GT3000A	108	99	20.6	37	29012
Augusta Seed	35	A2854CBLL	106	97	18.7	72	25621
Augusta Seed	**33**	**A2857**	**104**	**95**	**19.4**	**42**	**27128**
Augusta Seed	51	A2954GT3000A	145*	133	19.7	73	25998
Augusta Seed	36	A5457	122	112	21.8	68	26563
Augusta Seed	50	A5557	90	83	21.3	58	24302
Dekalb	7	DKC52-59 (VT3)	98	90	17.1	56	25621
Dekalb[4]	**9**	**DKC57-50 (VT3)**	**104**	**96**	**19.9**	**20**	**25621**
Dekalb[5]	99	DKC50-47 (RR2)	85	78	16.4	47	26186
Dekalb[5]	8	DKC53-45 (GENSS)	136*	125	18.3	51	27128
Dyna-Gro	1	D45VC90	98	90	20.9	25	25244
Garst	69	85V24-3000GT	98	90	19.2	85	25809
Hubner Seed	19	H5222VT3	116	107	18.1	81	25809
Hubner Seed	20	H5288VT3P	101	93	18.7	54	26186
Hubner Seed	21	H5333VT3P	130*	119	19.1	38	25809
NK	65	N56V-3000GT	98	90	18.8	81	25809
Pioneer	**100**	**P35K03**	**124**	**114**	**20.2**	**40**	**25621**
T.A Seeds	75	TA545-20	85	78	19.6	24	26374
T.A Seeds	73	TA565-20	142*	130	19.4	7	24490
T.A Seeds[5]	96	TA565-00	119	109	19.0	43	21476
Trial Mean			**109**		**19.2**	**54**	**25817**
$LSD_{0.10}$			**20.9**		**1.2**	**19.2**	**NS**
CV%			**18.0**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrid included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Dept. of Entomology.

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

Table 8. Performance of mid-season maturity hybrids evaluated at Wye R&E Center, Queenstown, MD during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Agra	83	711GT3000	123	88	23.2	36	28258
Augusta Seed	42	A0606GTCBLLA	127	91	24.8	77	24867
Augusta Seed	41	A0720CBLL	153*	110	24.5	75	28070
Augusta Seed	39	A5337EVT3	120	86	23.5	74	25621
Augusta Seed	38	A5461GTCBLLA	138	99	24.3	69	24302
Augusta Seed	43	A5462GT3000A	147*	106	25.0	86	24867
Augusta Seed	40	A5558VT3	135	97	21.0	57	26939
Augusta Seed	31	A5560VT3	136	98	19.6	28	25809
Augusta Seed	30	A5658GTCBLL	144	103	20.0	31	25998
Dekalb	10	DKC61-35 (GENVT3P)	158*	113	20.0	24	27128
Dekalb	11	DKC61-49 (GENVT2P)	151*	109	21.4	94	25432
Dekalb	12	DKC61-88 (GENVT3P)	146*	105	23.1	65	25432
Dekalb	13	DKC62-58 (GENVT2P)	144	104	22.3	59	26751
Dekalb	14	DKC62-97 (GENVT3P)	158*	114	21.9	72	26374
Dekalb	15	DKC63-25 (GENVT2P)	140	101	24.4	32	26563
Dekalb	16	DKC63-87 (GENVT2P)	167*	120	24.3	62	28635
Dekalb[4]	**87**	**DKC61-69 (VT3)**	**138**	**99**	**22.4**	**76**	**26563**
Dekalb[4]	**86**	**DKC63-14 (VT3)**	**134**	**96**	**24.2**	**39**	**28635**
Dekalb[5]	97	DKC61-21 (GENSS)	118	85	21.5	36	26939
Dekalb[5]	98	DKC61-22 (RR2)	142	102	22.2	48	27316
Dyna-Gro	2	D51SS40	167*	120	22.1	42	26563
Dyna-Gro	4	D53VP61	120	87	22.2	27	25809
Dyna-Gro	5	D54VP81	147*	106	22.2	49	27693
Garst	71	83R38-3000GT	148*	106	23.7	34	25998
Garst	70	84A40-3000GT	126	91	24.6	96	24490
Garst[5]	88	8489GT	112	81	23.1	25	24867
Garst[5]	89	84U58-3000GT	127	91	21.1	15	27505
Garst[5]	90	84U58-3111	136	98	20.9	19	27881
Growmark FS	82	6296VT3	142	102	19.6	50	26751
Growmark FS	81	6313VP3	168*	121	24.5	70	27693
Hubner Seed	24	H4600VT2P	152*	110	22.3	21	27505
Hubner Seed	23	H5609VT3P	167*	120	21.4	15	25998
Hubner Seed	22	H6652GENSS	133	96	21.5	51	26563
Mycogen	63	2A695	133	95	19.3	64	26751
Mycogen	64	2H736	141	101	23.1	57	27881
Mycogen	62	2V715	128	92	20.3	45	25432
Mycogen[5]	92	2V738	141	102	21.2	89	24114
NK	66	N68B-3000GT	149*	107	21.7	50	27128
NK	67	N71B-GT/CB/LL	116	84	21.3	96	27316
NK	68	N74R-3000GT	139	100	24.8	34	25809
Pioneer[4]	**102**	**1395HR**	**146***	**105**	**23.5**	**63**	**28070**
Pioneer[4]	**101**	**34F97**	**138**	**99**	**21.2**	**68**	**27505**
RPM	57	633HXR™	142	102	24.0	46	26374
RPM	58	634HRQ™	114	82	22.9	45	27505
Southern States[5]	52	SS 684 GENSS	139	100	20.4	43	25809
Southern States[5]	91	SS 684 RR2	133	96	20.9	49	24679
T.A Seeds	74	TA 587-22DP	139	100	20.0	51	27881
T.A Seeds	77	TA 720-20	135	97	25.3	88	25998
T.A Seeds[5]	95	TA 657-02	121	87	21.7	74	26563
T.A Seeds[5]	76	TA 657-13VP	136	98	22.0	75	25621
Trial Mean			**139**		**22.3**	**54**	**26525**
$LSD_{0.10}$			**23.7**		**1.6**	**21.3**	**NS**
CV%			**16.2**				

[1]See Table 5 for hybrid type designations for mid-season hybrids.
[2]Yields are reported at 15.5% moisture content.
[3]Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.
[4]Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.
[5]Hybrids included in European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Dept. of Entomology.
*Hybrids with an asterisk next to yield are not significantly different compared to the top-yielding hybrid at this location.

Table 9. Performance of full season hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	48	A6164CBLL	121	96	23.7	36	26939
Augusta Seed	47	A6166GT3000A	119	95	24.2	53	25432
Augusta Seed	49	A6465GTCBLL	88	70	22.6	61	22795
Augusta Seed	45	A6867GTCBLLA	146*	116	24.8	77	26186
Augusta Seed	46	A7664VT3	115	91	22.9	25	27505
Augusta Seed[4]	**44**	**A6867CBLL**	**123**	**98**	**24.9**	**75**	**26939**
Clarks	85	CL1014VT3	123	98	23.4	39	27881
Clarks	84	CL1016VT3	151*	120	24.0	40	25244
Dekalb	17	DKC64-69 (GENVT3P)	120	95	19.8	31	26186
Dekalb	18	DKC65-19 (GENVT3P)	132*	105	22.9	36	27128
Doebler's	61	674GRQ	114	91	22.2	38	25244
Dyna-Gro	3	57V59	151*	120	20.2	39	28070
Dyna-Gro	6	D55VC21	92	73	22.4	35	26563
Garst	72	83Z99-GT/CB/LL	129*	103	24.1	58	25998
Hubner Seed	28	H4822VT2P	155*	123	23.7	20	24490
Hubner Seed	25	H5709VT3P	144*	114	22.0	16	26374
Hubner Seed	27	H5909VT3P	131*	104	21.1	29	27505
Hubner Seed	26	H6762GENSS	114	91	21.4	18	26374
Pioneer[4]	**103**	**33D49**	**111**	**88**	**23.9**	**15**	**24867**
RPM	59	694HRQ™	117	93	21.0	50	26563
RPM	60	723HXR™	125	99	23.1	29	26374
Southern States	53	SS 755 GENVT3PRO	144*	115	21.4	15	28258
Southern States	54	SS 787 GENVT3PRO	132*	105	22.8	49	28258
Southern States	55	SS 788 GENVT3PRO	141*	112	23.7	39	26751
Southern States	56	SS 818 GENVT3PRO	119	94	24.1	37	27316
T.A. Seeds	80	TA 789-20	113	89	21.4	57	25809
T.A. Seeds[5]	94	TA 717-00	127	101	21.4	45	26186
T.A. Seeds[5]	78	TA 717-20	142*	112	24.6	45	27128
T.A. Seeds[5]	93	TA 778-02	133	105	21.7	11	26563
T.A. Seeds[5]	79	TA 778-28	113	90	20.2	30	24867
Trial Mean			**126**		**22.6**	**38**	**26393**
$LSD_{0.10}$			**26.0**		**1.0**	**23.3**	NS
CV%			**19.4**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrid included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Dept. of Entomology.

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

Table 10. Performance of early season hybrids at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	34	A0607CBLL	117	105.1	21.0	57	27881
Augusta Seed	29	A2340GT3000	92	82.9	15.5	7	28258
Augusta Seed	32	A2750GT3000	104	93.3	16.3	56	27128
Augusta Seed	37	A2852GT3000A	128*	115.4	18.1	25	28258
Augusta Seed	35	A2854CBLL	109	97.8	18.8	32	26563
Augusta Seed	51	A2954GT3000A	136*	122.0	19.4	34	25432
Augusta Seed	36	A5457	106	95.1	18.7	32	26939
Augusta Seed	50	A5557	104	93.3	21.3	12	27128
Augusta Seed[4]	**33**	**A2857**	**94**	**84.9**	**19.5**	**20**	**28447**
Dekalb	7	DKC52-59 (VT3)	113	101.3	16.4	18	27693
Dekalb[4]	**9**	**DKC57-50 (VT3)**	**113**	**101.4**	**20.3**	**24**	**28447**
Dekalb[5]	99	DKC50-47 (RR2)	103	92.7	17.7	34	27316
Dekalb[5]	8	DKC53-45 (GENSS)	122*	109.6	18.0	36	27316
Dyna-Gro	1	D45VC90	106	95.6	18.9	29	28447
Garst	69	85V24-3000GT	119	107.0	18.2	57	25621
Hubner Seed	19	H5222VT3	110	98.7	16.1	70	26186
Hubner Seed	20	H5288VT3P	111	99.7	19.0	41	27881
Hubner Seed	21	H5333VT3P	117	105.2	18.1	42	27505
NK	65	N56V-3000GT	114	102.4	18.3	52	27128
Pioneer[4]	**100**	**P35K03**	**104**	**93.8**	**19.3**	**30**	**27693**
T.A. Seeds	75	TA545-20	109	98.4	18.7	38	29012
T.A. Seeds	73	TA565-20	105	94.2	19.4	26	27316
T.A. Seeds[5]	96	TA565-00	123*	110.6	19.9	26	28258
Trial Mean			**111**		**18.6**	**35**	**27472**
$LSD_{0.10}$			**16.6**		**1.6**	**23**	**NS**
CV%			**14.0**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrid included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Dept. of Entomology.

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

Table 11. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Agra	83	711GT3000	111	100.3	24.9	28	28258
Augusta Seed	30	A5658GTCBLL	107	96.5	22.4	46	28447
Augusta Seed	31	A5560VT3	114*	102.6	20.1	6	27693
Augusta Seed	38	A5461GTCBLLA	99	89.7	20.8	32	28823
Augusta Seed	39	A5337EVT3	114*	102.9	23.8	36	26186
Augusta Seed	40	A5558VT3	95	86.0	21.2	36	26563
Augusta Seed	41	A0720CBLL	136*	122.4	22.6	32	28447
Augusta Seed	42	A0606GTCBLLA	119*	107.5	25.3	8	26563
Augusta Seed	43	A5462GT3000A	105	94.3	22.2	50	28447
Dekalb	10	DKC61-35 (GENVT3P)	128*	115.6	20.7	28	27881
Dekalb	11	DKC61-49 (GENVT2P)	134*	120.9	21.3	47	28070
Dekalb	12	DKC61-88 (GENVT3P)	100	89.7	19.3	35	27505
Dekalb	13	DKC62-58 (GENVT2P)	103	92.9	20.7	21	27881
Dekalb	14	DKC62-97 (GENVT3P)	116*	104.3	19.2	11	29200
Dekalb	15	DKC63-25 (GENVT2P)	133*	120.3	28.1	28	27505
Dekalb	16	DKC63-87 (GENVT2P)	124*	111.7	21.9	32	27505
Dekalb[4]	**86**	**DKC63-14 (VT3)**	**109**	**98.6**	**23.0**	**17**	**28823**
Dekalb[4]	**87**	**DKC61-69 (VT3)**	**115***	**103.4**	**20.3**	**22**	**27505**
Dekalb[5]	97	DKC61-21 (GENSS)	108	97.6	21.8	45	30142
Dekalb[5]	98	DKC61-22 (RR2)	101	91.4	19.4	19	26939
Dyna-Gro	2	D51SS40	102	92.3	20.3	29	25621
Dyna-Gro	4	D53VP61	119*	107.6	21.2	47	26186
Dyna-Gro	5	D54VP81	124*	111.9	24.2	45	26939
Garst	71	83R38-3000GT	127*	114.8	28.7	53	26563
Garst	88	8489GT	106	95.4	23.4	35	27128
Garst[5]	70	84A40-3000GT	102	91.8	21.1	21	28070
Garst[5]	89	84U58-3000GT	120*	108.6	21.1	17	27693
Garst[5]	90	84U58-3111	77	69.4	19.1	19	29765
Growmark FS	81	6313VP3	135*	122.1	26.7	18	27693
Growmark FS	82	6296VT3	107	96.3	21.8	56	27316
Hubner Seed	22	H6652GENSS	124*	111.7	20.5	17	28258
Hubner Seed	23	H5609VT3P	117*	105.6	20.9	21	27505
Hubner Seed	24	H4600VT2P	115*	103.3	23.2	22	28823
Mycogen	62	2V715	104	93.5	19.1	17	28070
Mycogen	63	2A695	83	74.7	22.2	47	28635
Mycogen	64	2H736	102	91.9	25.0	17	27316
Mycogen[5]	92	2V738	115*	103.4	24.0	19	29012
NK	66	N68B-3000GT	113	102.0	20.2	5	26939
NK	67	N71B-GT/CB/LL	94	84.7	21.7	17	26186
NK	68	N74R-3000GT	132*	119.1	28.7	28	26939
Pioneer[4]	**101**	**34F97**	**110**	**99.1**	**23.8**	**36**	**27316**
Pioneer[4]	**102**	**1395HR**	**112**	**101.1**	**23.3**	**11**	**27505**
RPM	57	633HXR™	96	86.9	21.7	4	27316
RPM	58	634HRQ™	116*	104.9	22.9	31	26751
Southern States[5]	52	SS 684 GENSS	116*	104.7	19.9	51	26186
Southern States[5]	91	SS 684 RR2	109	98.4	19.7	29	28070
T.A. Seeds	77	TA 720-20	89	80.3	21.0	32	28635
T.A. Seeds	95	TA 657-02	102	92.0	21.1	15	28635
T.A. Seeds[5]	74	TA 587-22DP	97	87.3	16.5	21	28070
T.A. Seeds[5]	76	TA 657-13VP	103	92.4	21.8	55	28258
Trial Mean			**111**		**22.1**	**28**	**27716**
$LSD_{0.10}$			**22.4**		**1.3**	**25**	**NS**
CV%			**19.1**				

[1]See Table 5 for hybrid type code designations for mid-season hybrids.
[2]Yields are reported at 15.5% moisture content.
[3]Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.
[4]Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.
[5]Hybrids included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Dept. of Entomology.
*Hybrids with an asterisk next to yield are not significantly different compared to the top-yielding hybrid at this location.

Table 12. Performance of full season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2011.

Brand/Company Name	Test Entry Number	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	48	A6164CBLL	115	96.3	24.2	14	27128
Augusta Seed	47	A6166GT3000A	101	84.7	25.2	10	24490
Augusta Seed	49	A6465GTCBLL	126	105.6	27.5	7	30330
Augusta Seed	45	A6867GTCBLLA	119	100.3	24.7	30	25998
Augusta Seed	46	A7664VT3	123	103.2	23.3	17	27881
Augusta Seed[4]	**44**	**A6867CBLL**	**121**	**101.4**	**25.9**	**39**	**27881**
Clarks	85	CL1014VT3	102	85.8	21.8	10	26751
Clarks	84	CL1016VT3	102	85.5	25.5	11	27881
Dekalb	17	DKC64-69 (GENVT3P)	118	98.8	21.1	16	26939
Dekalb	18	DKC65-19 (GENVT3P)	116	97.3	24.4	21	27128
Doebler's	61	674GRQ	111	93.6	23.0	8	27316
Dyna-Gro	6	D55VC21	113	95.1	23.7	18	27881
Dyna-Gro	3	57V59	118	98.8	21.4	9	28070
Garst	72	83Z99-GT/CB/LL	131	110.2	25.6	4	21853
Hubner Seed	28	H4822VT2P	149*	125.6	26.7	8	26186
Hubner Seed	25	H5709VT3P	170*	142.7	24.8	7	29200
Hubner Seed	27	H5909VT3P	91	76.5	20.5	10	28258
Hubner Seed	26	H6762GENSS	123	103.2	23.2	24	28258
Pioneer[4]	**103**	**33D49**	**112**	**94.3**	**24.3**	**43**	**25432**
RPM	59	694HRQ™	116	97.3	23.9	37	26939
RPM	60	723HXR™	107	90.1	26.3	15	28070
Southern States	53	SS 755 GENVT3PRO	109	91.9	22.9	42	26374
Southern States	54	SS 787 GENVT3PRO	122	102.8	24.4	18	27316
Southern States	55	SS 788 GENVT3PRO	149*	124.8	27.4	6	26939
Southern States	56	SS 818 GENVT3PRO	129	108.8	25.3	45	26751
T.A. Seeds[5]	94	TA 717-00	102	85.3	23.0	8	27128
T.A. Seeds[5]	93	TA 778-02	118	98.8	23.3	27	27505
T.A. Seeds	80	TA 789-20	129	108.4	24.9	20	27505
T.A. Seeds[5]	78	TA 717-20	112	93.7	23.5	14	27316
T.A. Seeds[5]	79	TA 778-28	118	99.3	25.4	9	26563
Trial Mean			**119**		**24.2**	**18**	**27109**
$LSD_{0.10}$			**23.9**		**1.8**	**20**	**2115**
CV%			**19.0**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrids included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Dept. of Entomology.

*Hybrids with an asterisk next to yield are not significantly different 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 2011.

Brand/Company Name	Test Entry Number	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	34	A0607CBLL	147*	109.4	19.1	3	25621
Augusta Seed	29	A2340GT3000	133	98.6	14.4	3	28635
Augusta Seed	32	A2750GT3000	131	97.3	16.6	16	28070
Augusta Seed	37	A2852GT3000A	130	96.4	18.7	1	29765
Augusta Seed	35	A2854CBLL	115	85.3	19.5	2	28447
Augusta Seed	51	A2954GT3000A	140	103.8	18.2	4	28823
Augusta Seed	36	A5457	141	104.6	20.1	4	25998
Augusta Seed	50	A5557	120	89.2	19.1	1	27128
Augusta Seed[4]	**33**	**A2857**	**147***	**109.0**	**19.1**	**5**	**28258**
Dekalb	7	DKC52-59 (VT3)	141	104.4	15.4	12	27505
Dekalb[4]	**9**	**DKC57-50 (VT3)**	**146***	**108.0**	**20.7**	**8**	**27693**
Dekalb[5]	99	DKC50-47 (RR2)	149*	110.5	15.6	17	29389
Dekalb[5]	8	DKC53-45 (GENSS)	147*	109.4	15.4	8	28258
Dyna-Gro	1	D45VC90	126	93.7	17.5	7	28070
Garst	69	85V24-3000GT	115	85.2	18.9	1	27693
Hubner Seed	19	H5222VT3	125	92.5	16.0	13	25244
Hubner Seed	20	H5288VT3P	119	88.0	18.0	4	25432
Hubner Seed	21	H5333VT3P	137	102.0	16.7	10	28635
NK	65	N56V-3000GT	123	91.0	17.8	2	27505
Pioneer[4]	100	P35K03	143	106.0	18.1	6	28447
T.A. Seeds	75	TA545-20	137	101.7	17.8	1	27881
T.A. Seeds	73	TA565-20	159*	117.7	16.6	5	26186
T.A. Seeds[5]	96	TA565-00	130	96.3	17.2	4	25056
Trial Mean			**135**		**17.7**	**6**	**27554**
$LSD_{0.10}$			**13.6**		**0.8**	**5**	**1175**
CV%			**9.9**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrids included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Dept. of Entomology.

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

Table 14. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury, MD during 2011.

Brand/Company	Test Number	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Agra	83	711GT3000	135	72.7	21.9	1	26751
Augusta Seed	30	A5658GTCBLL	204	110.2	18.4	1	26939
Augusta Seed	31	A5560VT3	220*	119.0	19.6	11	27128
Augusta Seed	38	A5461GTCBLLA	190	102.7	19.8	7	27881
Augusta Seed	39	A5337EVT3	179	96.6	20.4	2	25998
Augusta Seed	40	A5558VT3	175	94.6	18.9	17	26939
Augusta Seed	41	A0720CBLL	207	111.7	19.9	11	25998
Augusta Seed	42	A0606GTCBLLA	222*	120.1	21.8	2	27316
Augusta Seed	43	A5462GT3000A	173	93.7	22.2	1	26939
Dekalb	10	DKC61-35 (GENVT3P)	184	99.4	21.5	7	28635
Dekalb	11	DKC61-49 (GENVT2P)	201	108.8	18.9	8	27505
Dekalb	12	DKC61-88 (GENVT3P)	192	103.9	19.9	11	27316
Dekalb	13	DKC62-58 (GENVT2P)	188	101.8	19.3	18	26374
Dekalb	14	DKC62-97 (GENVT3P)	204	110.3	20.9	6	28258
Dekalb	15	DKC63-25 (GENVT2P)	201	108.4	21.2	3	28070
Dekalb	16	DKC63-87 (GENVT2P)	228*	123.0	20.8	13	26374
Dekalb[4]	**86**	**DKC63-14 (VT3)**	**209***	**113.0**	**21.7**	**3**	**28447**
Dekalb[4]	**87**	**DKC61-69 (VT3)**	**198**	**107.1**	**20.3**	**4**	**28070**
Dekalb[5]	97	DKC61-21 (GENSS)	181	97.9	19.7	4	26939
Dekalb[5]	98	DKC61-22 (RR2)	192	103.6	19.9	7	28635
Dyna-Gro	2	D51SS40	163	88.2	19.4	3	28447
Dyna-Gro	4	D53VP61	182	98.6	20.8	4	26374
Dyna-Gro	5	D54VP81	198	106.9	21.1	5	27693
Garst	70	84A40-3000GT	173	93.3	20.3	18	27693
Garst	71	83R38-3000GT	198	107.3	22.3	21	27505
Garst[5]	88	8489GT	178	96.3	21.0	18	26563
Garst[5]	89	84U58-3000GT	188	101.7	19.7	3	27693
Garst[5]	90	84U58-3111	198	107.2	19.6	8	27881
Growmark FS	81	6313VP3	186	100.4	21.6	4	26563
Growmark FS	82	6296VT3	175	94.7	19.4	3	26751
Hubner Seed	22	H6652GENSS	178	96.0	19.4	1	26939
Hubner Seed	23	H5609VT3P	195	105.4	21.4	1	28070
Hubner Seed	24	H4600VT2P	194	104.7	21.1	3	28447
Mycogen	62	2V715	199	107.8	18.2	15	26374
Mycogen	63	2A695	164	88.7	17.8	2	27881
Mycogen	64	2H736	216*	117.0	19.6	10	27693
Mycogen[5]	92	2V738	199	107.8	20.5	14	27128
NK	66	N68B-3000GT	224*	121.1	18.5	7	28258
NK	67	N71B-GT/CB/LL	205	111.0	20.3	20	27693
NK	68	N74R-3000GT	171	92.2	23.1	10	28258
Pioneer[4]	**101**	**34F97**	**157**	**85.1**	**21.6**	**5**	**28635**
Pioneer[4]	**102**	**1395HR**	**163**	**88.0**	**19.7**	**19**	**26186**
RPM	57	633HXR™	181	97.8	20.3	6	27128
RPM	58	634HRQ™	191	103.2	19.6	2	28447
Southern States[5]	52	SS 684 GENSS	181	98.0	19.6	7	28070
Southern States[5]	91	SS 684 RR2	152	82.0	19.5	3	25998
T.A. Seeds	74	TA 587-22DP	181	97.8	17.7	3	27693
T.A. Seeds	77	TA 720-20	179	96.6	21.4	10	25998
T.A. Seeds[5]	76	TA 657-13VP	209*	112.8	18.8	10	26186
T.A. Seeds[5]	95	TA 657-02	189	102.3	20.0	6	27505
Trial Mean			**189**		**20.2**	**8**	**27365**
$LSD_{0.10}$			**20.8**		**1.1**	**8**	**1056**
CV%			**10.8**				

[1]See Table 5 for hybrid type code designations for mid-season hybrids.
[2]Yields are reported at 15.5% moisture content.
[3]Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.
[4]Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.
[5]Hybrids included for purpose of a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of Maryland, Department of Entomology.
*Hybrids with an asterisk next to yield are not significantly different compared to the top-yielding hybrid at this location.

Table 15. Performance of full season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury, MD during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	48	A6164CBLL	174	98.8	23.3	8	27316
Augusta Seed	47	A6166GT3000A	169	96.3	24.2	7	26374
Augusta Seed	49	A6465GTCBLL	191*	108.7	22.6	11	27128
Augusta Seed	45	A6867GTCBLLA	189*	107.3	23.0	27	26563
Augusta Seed	46	A7664VT3	193*	109.8	22.8	2	25244
Augusta Seed[4]	**44**	**A6867CBLL**	**169**	**96.1**	**23.5**	**27**	**26751**
Clarks	85	CL1014VT3	163	93.0	22.8	3	27316
Clarks	84	CL1016VT3	170	96.9	22.9	7	25809
Dekalb	17	DKC64-69 (GENVT3P)	191*	109.0	20.9	11	28070
Dekalb	18	DKC65-19 (GENVT3P)	188*	107.2	23.5	0	27128
Doebler's	61	674GRQ	160	91.0	22.3	6	27505
Dyna-Gro	6	D55VC21	148	84.4	22.3	3	28635
Dyna-Gro	3	57V59	189*	107.3	21.0	2	27505
Garst	72	83Z99-GT/CB/LL	164	93.2	23.4	24	28258
Hubner Seed	28	H4822VT2P	181*	102.8	22.6	6	26563
Hubner Seed	25	H5709VT3P	181*	103.0	22.6	1	28070
Hubner Seed	27	H5909VT3P	193*	109.6	20.7	12	28635
Hubner Seed	26	H6762GENSS	168	95.7	22.2	4	28447
Pioneer[4]	**103**	**33D49**	**185***	**105.3**	**23.6**	**6**	**26751**
RPM	59	694HRQ™	158	89.9	20.7	11	26751
RPM	60	723HXR™	159	90.7	22.9	14	26751
Southern States	53	SS 755 GENVT3PRO	181*	103.1	20.8	4	26374
Southern States	54	SS 787 GENVT3PRO	172	97.7	21.0	2	28070
Southern States	55	SS 788 GENVT3PRO	163	92.8	22.9	2	25809
Southern States	56	SS 818 GENVT3PRO	183*	104.1	24.1	17	28070
T.A. Seeds[5]	94	TA 717-00	191*	108.8	20.8	7	27881
T.A. Seeds[5]	93	TA 778-02	182*	103.6	20.9	2	25809
T.A. Seeds	80	TA 789-20	175*	99.8	22.6	6	25998
T.A. Seeds[5]	78	TA 717-20	173	98.4	23.4	33	27505
T.A. Seeds[5]	79	TA 778-28	168	95.7	21.9	1	27128
Trial Mean			**176**		**22.4**	**9**	**27140**
$LSD_{0.10}$			**18.8**		**0.8**	**10**	**NS**
CV%			**10.5**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrids included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ.of Maryland, Dept. of Entomology.

*Hybrids with an asterisk next to yield are not significantly different 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 2011.

Brand/Company Name	Test Entry Number	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	34	A0607CBLL	112	104.2	21.7	4	24809
Augusta Seed	29	A2340GT3000	88	81.5	15.5	4	27505
Augusta Seed	32	A2750GT3000	98	91.1	16.9	1	28447
Augusta Seed	37	A2852GT3000A	98	90.6	17.8	2	27693
Augusta Seed	35	A2854CBLL	98	91.2	18.3	0	25621
Augusta Seed	51	A2954GT3000A	120	110.9	19.3	1	28447
Augusta Seed	36	A5457	99	91.8	21.5	1	27693
Augusta Seed	50	A5557	118	109.1	21.7	0	28635
Augusta Seed[4]	**33**	**A2857**	**106**	**98.1**	**22.2**	**2**	**28447**
Dekalb	7	DKC52-59 (VT3)	106	98.0	15.8	2	25998
Dekalb[4]	**9**	**DKC57-50 (VT3)**	**137***	**126.5**	**20.7**	**1**	**27881**
Dekalb[5]	99	DKC50-47 (RR2)	88	81.3	17.4	4	26813
Dekalb[5]	8	DKC53-45 (GENSS)	105	97.1	18.1	2	29389
Dyna-Gro	1	D45VC90	97	90.2	21.9	1	28447
Garst	69	85V24-3000GT	86	79.5	19.3	2	26939
Hubner Seed	19	H5222VT3	92	85.4	16.2	8	27054
Hubner Seed	20	H5288VT3P	129	119.4	22.4	0	27505
Hubner Seed	21	H5333VT3P	113	104.4	18.8	0	28823
NK	65	N56V-3000GT	107	99.3	19.2	0	27326
Pioneer[4]	100	P35K03	102	94.2	21.2	2	28496
T.A. Seeds	75	TA545-20	116	107.2	18.9	1	27814
T.A. Seeds	73	TA565-20	148*	136.9	20.6	1	24663
T.A. Seeds[5]	96	TA565-00	129	119.3	20.7	1	27125
Trial Mean			**108**		**19.4**	**2**	**27459**
$LSD_{0.10}$			**17**		**1.5**	**2.5**	**1507**
CV%			**14.2**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrids included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ.of Maryland, Dept. of Entomology.

*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 2011.

Brand/Company	Test Entry Number	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Agra	83	711GT3000	110	84.8	23.0	0	26939
Augusta Seed	30	A5658GTCBLL	119	91.9	22.0	0	27881
Augusta Seed	31	A5560VT3	108	83.4	21.4	0	27505
Augusta Seed	38	A5461GTCBLLA	136	104.9	22.5	1	25998
Augusta Seed	39	A5337EVT3	88	67.7	23.7	1	26751
Augusta Seed	40	A5558VT3	133	102.7	21.0	0	25056
Augusta Seed	41	A0720CBLL	131	101.6	23.6	1	28635
Augusta Seed	42	A0606GTCBLLA	132	102.0	25.2	1	25621
Augusta Seed	43	A5462GT3000A	129	99.4	24.8	0	27505
Dekalb	10	DKC61-35 (GENVT3P)	150	116.4	22.6	1	28447
Dekalb	11	DKC61-49 (GENVT2P)	139	107.2	20.4	0	28823
Dekalb	12	DKC61-88 (GENVT3P)	139	107.3	20.8	0	28447
Dekalb	13	DKC62-58 (GENVT2P)	131	101.6	21.3	0	26586
Dekalb	14	DKC62-97 (GENVT3P)	139	107.2	18.9	0	29012
Dekalb	15	DKC63-25 (GENVT2P)	143	110.3	23.2	1	28447
Dekalb	16	DKC63-87 (GENVT2P)	145	112.5	22.5	0	29012
Dekalb[4]	**86**	**DKC63-14 (VT3)**	**182***	**140.7**	**21.4**	**1**	**28258**
Dekalb[4]	**87**	**DKC61-69 (VT3)**	**150**	**116.2**	**20.2**	**3**	**27316**
Dekalb[5]	97	DKC61-21 (GENSS)	104	80.7	22.6	0	27881
Dekalb[5]	98	DKC61-22 (RR2)	143	110.6	21.3	1	28447
Dyna-Gro	2	D51SS40	109	84.1	21.1	1	29012
Dyna-Gro	4	D53VP61	116	89.5	19.2	0	27881
Dyna-Gro	5	D54VP81	133	102.8	23.7	0	29012
Garst	70	84A40-3000GT	133	103.1	20.9	0	27128
Garst	71	83R38-3000GT	141	109.4	23.8	0	28070
Garst[5]	88	8489GT	121	93.6	21.8	2	28635
Garst[5]	89	84U58-3000GT	126	97.8	20.7	3	26563
Garst[5]	90	84U58-3111	122	94.4	20.9	0	26751
Growmark FS	81	6313VP3	128	98.8	24.1	1	26751
Growmark FS	82	6296VT3	126	97.7	22.7	2	26563
Hubner Seed	22	H6652GENSS	125	96.8	21.0	1	25998
Hubner Seed	23	H5609VT3P	132	101.9	22.7	1	28070
Hubner Seed	24	H4600VT2P	129	99.4	23.6	0	29200
Mycogen	62	2V715	128	99.1	21.9	7	27881
Mycogen	63	2A695	135	104.4	20.9	0	28447
Mycogen	64	2H736	146	112.6	23.7	1	27881
Mycogen[5]	92	2V738	124	96.0	22.8	1	28258
NK	66	N68B-3000GT	134	103.8	19.9	1	24864
NK	67	N71B-GT/CB/LL	124	95.7	20.3	4	27693
NK	68	N74R-3000GT	138	106.5	25.1	1	29577
Pioneer[4]	**101**	**34F97**	**127**	**98.1**	**21.7**	**2**	**29389**
Pioneer[4]	**102**	**1395HR**	**136**	**105.3**	**22.3**	**1**	**28258**
RPM	57	633HXR™	99	76.6	21.7	1	28823
RPM	58	634HRQ™	114	88.3	20.9	1	26374
Southern States[5]	52	SS 684 GENSS	115	88.9	19.7	0	28258
Southern States[5]	91	SS 684 RR2	99	76.8	20.0	8	28070
T.A. Seeds	74	TA 587-22DP	120	93.0	18.7	1	27128
T.A. Seeds	77	TA 720-20	137	105.7	23.3	1	25441
T.A. Seeds[5]	76	TA 657-13VP	146	112.9	22.4	6	24749
T.A. Seeds[5]	95	TA 657-02	146	112.8	22.0	9	27505
Trial Mean			**129**		**21.9**	**1**	**27616**
$LSD_{0.10}$			**18**		**1.3**	**2**	**1449**
CV%			**13.1**				

[1]See Table 5 for hybrid type code designations for mid-season hybrids.
[2]Yields are reported at 15.5% moisture content.
[3]Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.
[4]Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.
[5]Hybrids included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, Univ. of MD, Dept. 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 2011.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	48	A6164CBLL	136	100.7	23.1	0	28447
Augusta Seed	47	A6166GT3000A	138	102.2	23.3	0	26563
Augusta Seed	49	A6465GTCBLL	147	108.8	22.4	0	25244
Augusta Seed	45	A6867GTCBLLA	149	110.3	24.1	1	27881
Augusta Seed	46	A7664VT3	135	100.4	21.9	0	26374
Augusta Seed[4]	**44**	**A6867CBLL**	**145**	**107.8**	**23.8**	**1**	**29389**
Clarks	85	CL1014VT3	121	89.8	23.5	0	27881
Clarks	84	CL1016VT3	134	99.7	23.0	0	26939
Dekalb	17	DKC64-69 (GENVT3P)	149	110.5	22.0	0	28823
Dekalb	18	DKC65-19 (GENVT3P)	147	109.2	22.1	0	28447
Doebler's	61	674GRQ	146	108.7	20.7	4	24679
Dyna-Gro	3	57V59	123	90.9	18.3	0	27316
Dyna-Gro	6	D55VC21	133	98.5	21.2	0	29577
Garst	72	83Z99-GT/CB/LL	167*	124.0	21.9	1	28258
Hubner Seed	28	H4822VT2P	130	96.1	24.3	0	26751
Hubner Seed	25	H5709VT3P	146	108.1	22.4	0	28823
Hubner Seed	27	H5909VT3P	127	94.2	22.0	1	29012
Hubner Seed	26	H6762GENSS	117	87.0	22.1	1	28258
Pioneer[4]	**103**	**33D49**	**123**	**91.2**	**23.0**	**0**	**27128**
RPM	59	694HRQ™	113	83.5	19.4	4	26563
RPM	60	723HXR™	140	104.0	19.6	1	28561
Southern States	53	SS 755 GENVT3PRO	139	103.5	19.2	1	29012
Southern States	54	SS 787 GENVT3PRO	146	108.6	22.2	0	29200
Southern States	55	SS 788 GENVT3PRO	132	97.7	20.7	1	26186
Southern States	56	SS 818 GENVT3PRO	113	83.5	24.6	0	28258
T.A. Seeds[5]	94	TA 717-00	129	95.5	20.2	7	25809
T.A. Seeds[5]	93	TA 778-02	132	98.0	22.2	1	27128
T.A. Seeds	80	TA 789-20	128	95.0	21.8	1	27128
T.A. Seeds[5]	78	TA 717-20	132	98.1	22.9	0	26939
T.A. Seeds[5]	79	TA 778-28	128	95.0	17.0	3	28635
Trial Mean			**135**		**21.8**	**1**	**27640**
$LSD_{0.10}$			**13**		**1.9**	**1**	**1550**
CV%			**9.2**				

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

[2]Yields are reported at 15.5% moisture content.

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

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

[5]Hybrids included in a European corn borer assessment study conducted by Drs. Galen Dively and William Lamp, University of Maryland, Dept. of Entomology.

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

Table 19. Performance of early hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2011.

Brand/Company Name	Test Entry Number	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	34	A0607CBLL	154	100.7	23.8	2	25786
Augusta Seed	29	A2340GT3000	154	100.9	20.4	0	28405
Augusta Seed	32	A2750GT3000	167*	109.1	22.9	1	28103
Augusta Seed	37	A2852GT3000A	169*	111.0	23.0	0	29614
Augusta Seed	35	A2854CBLL	151	99.1	23.6	1	27801
Augusta Seed	51	A2954GT3000A	175*	114.5	24.0	2	29614
Augusta Seed	36	A5457	137	89.9	23.7	24	26592
Augusta Seed	50	A5557	164	107.4	22.6	1	28103
Augusta Seed[4]	**33**	**A2857**	**164**	**107.4**	**23.1**	**7**	**30219**
Dekalb	7	DKC52-59 (VT3)	157	102.7	21.5	2	27197
Dekalb[4]	**9**	**DKC57-50 (VT3)**	**179***	**117.4**	**23.0**	**0**	**28607**
Dekalb[5]	99	DKC50-47 (RR2)	161	105.7	21.5	7	28405
Dekalb[5]	8	DKC53-45 (GENSS)	140	91.7	21.4	4	29010
Dyna-Gro	1	D45VC90	128	83.9	24.2	0	30219
Garst	69	85V24-3000GT	153	100.6	20.7	1	25988
Hubner Seed	19	H5222VT3	159	104.1	22.5	0	28002
Hubner Seed	20	H5288VT3P	146	95.8	23.4	1	26391
Hubner Seed	21	H5333VT3P	147	96.2	23.1	0	28607
NK	65	N56V-3000GT	136	89.1	22.9	3	25384
Pioneer[4]	**100**	**P35K03**	**148**	**97.2**	**23.6**	**1**	**30017**
T.A. SEEDS	75	TA545-20	173*	113.0	21.7	0	27499
T.A. SEEDS	73	TA565-20	137	90.0	22.9	0	25686
T.A. SEEDS[5]	96	TA565-00	130	85.3	22.2	9	23570
Trial Mean			**153**		**22.6**	**3**	**27589**
$LSD_{0.10}$			**13**		**1.3**	**3**	**1611**
CV%			**7.7**				

[1]See Table 4 for hybrid type code designations for early-season hybrids.
[2]Yields are reported at 15.5% moisture content.
[3]Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.
[4]Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.
[5]Hybrid included in 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, MD during 2011.

Brand/Company	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Agra	83	711GT3000	163*	105.3	25.2	0	27398
Augusta Seed	42	A0606GTCBLLA	170*	109.4	24.8	6	29010
Augusta Seed	41	A0720CBLL	157	101.5	25.6	3	30420
Augusta Seed	39	A5337EVT3	161	103.6	24.3	6	26794
Augusta Seed	38	A5461GTCBLLA	172*	110.5	24.7	18	26318
Augusta Seed	43	A5462GT3000A	126	80.9	26.0	15	28808
Augusta Seed	40	A5558VT3	152	97.8	25.7	7	25125
Augusta Seed	31	A5560VT3	149	96.3	24.6	5	28808
Augusta Seed	30	A5658GTCBLL	168*	108.4	24.3	1	29211
Dekalb	10	DKC61-35 (GENVT3P)	177*	113.8	23.6	0	29010
Dekalb	11	DKC61-49 (GENVT2P)	144	92.5	22.1	3	27197
Dekalb	12	DKC61-88 (GENVT3P)	170*	109.7	22.5	1	28607
Dekalb	13	DKC62-58 (GENVT2P)	148	95.3	25.0	2	24994
Dekalb	14	DKC62-97 (GENVT3P)	178	114.9	23.8	0	28607
Dekalb	15	DKC63-25 (GENVT2P)	178*	114.6	27.6	1	29614
Dekalb	16	DKC63-87 (GENVT2P)	176*	113.1	23.7	0	29211
Dekalb[4]	**87**	**DKC61-69 (VT3)**	**167***	**107.3**	**22.4**	**4**	**27801**
Dekalb[4]	**86**	**DKC63-14 (VT3)**	**173***	**111.2**	**25.4**	**3**	**28002**
Dekalb[5]	97	DKC61-21 (GENSS)	154	99.1	23.2	1	29816
Dekalb[5]	98	DKC61-22 (RR2)	149	95.9	22.9	6	28405
Dyna-Gro	2	D51SS40	147	94.9	23.3	4	30017
Dyna-Gro	4	D53VP61	171*	110.1	23.9	1	29413
Dyna-Gro	5	D54VP81	174*	111.9	25.3	6	30017
Garst	71	83R38-3000GT	159	102.3	26.8	0	29413
Garst	70	84A40-3000GT	120	77.6	25.1	3	29312
Garst[5]	88	8489GT	133	85.4	26.0	12	28405
Garst[5]	89	84U58-3000GT	162	104.2	24.4	0	28405
Garst[5]	90	84U58-3111	172*	110.6	24.6	2	27298
Growmark FS	82	6296VT3	164*	105.5	25.4	8	28808
Growmark FS	81	6313VP3	154	99.4	26.6	1	28405
Hubner Seed	24	H4600VT2P	186*	120.0	24.8	0	30219
Hubner Seed	23	H5609VT3P	163*	105.0	24.9	2	28204
Hubner Seed	22	H6652GENSS	177*	113.9	23.1	3	30219
Mycogen	63	2A695	146	94.3	24.0	1	28002
Mycogen	64	2H736	144	92.8	24.9	2	30017
Mycogen	62	2V715	164*	105.5	22.4	15	26867
Mycogen[5]	92	2V738	151	97.6	24.4	1	29614
NK	66	N68B-3000GT	109	70.4	24.8	7	27600
NK	67	N71B-GT/CB/LL	122	78.9	24.2	15	29211
NK	68	N74R-3000GT	182*	117.1	26.4	0	30823
Pioneer[4]	**102**	**1395HR**	**166***	**106.8**	**26.2**	**3**	**29211**
Pioneer[4]	**101**	**34F97**	**137**	**88.0**	**25.5**	**8**	**27398**
RPM	57	633HXR™	149	95.8	25.8	3	28204
RPM	58	634HRQ™	133	85.5	24.7	4	28405
Southern States[5]	52	SS 684 GENSS	137	88.0	25.0	3	28607
Southern States[5]	91	SS 684 RR2	126	81.4	23.5	21	24816
T.A. Seeds	74	TA 587-22DP	113	73.1	22.6	11	29010
T.A. Seeds	77	TA 720-20	159	102.3	24.3	5	29010
T.A. Seeds[5]	95	TA 657-02	152	97.9	22.1	15	28204
T.A. Seeds[5]	76	TA 657-13VP	155	99.6	23.3	9	26592
Trial Mean			**155**		**24.5**	**5**	**28448**
$LSD_{0.10}$			**23**		**1.4**	**7**	**1653**
CV%			**13.9**				

[1]See Table 5 for hybrid type code designations for mid-season hybrids.
[2]Yields are reported at 15.5% moisture content.
[3]Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.
[4]Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.
[5]Hybrids included in 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 No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta Seed	48	A6164CBLL	167*	104.4	27.6	1	30420
Augusta Seed	47	A6166GT3000A	154	96.3	26.8	5	29614
Augusta Seed	49	A6465GTCBLL	173*	108.2	26.3	5	27398
Augusta Seed	45	A6867GTCBLLA	168*	104.8	28.1	9	28204
Augusta Seed	46	A7664VT3	144	90.3	27.7	1	29211
Augusta Seed[4]	**44**	**A6867CBLL**	**173***	**108.3**	**27.6**	**5**	**27801**
Clarks	85	CL1014VT3	165*	103.1	26.3	3	29211
Clarks	84	CL1016VT3	174*	108.5	27.4	0	27624
Dekalb	17	DKC64-69 (GENVT3P)	180*	112.4	28.1	0	30017
Dekalb	18	DKC65-19 (GENVT3P)	170*	106.4	27.8	0	30336
Doebler's	61	674GRQ	157	98.2	25.1	4	28405
Dyna-Gro	6	D55VC21	169*	105.8	27.2	1	28560
Dyna-Gro	3	57V59	163	102.0	25.0	8	29618
Garst	72	83Z99-GT/CB/LL	177	110.8	27.3	4	28607
Hubner Seed	28	H4822VT2P	161	100.5	27.3	2	29413
Hubner Seed	25	H5709VT3P	172*	107.4	26.7	1	30420
Hubner Seed	27	H5909VT3P	157	98.5	25.8	1	27801
Hubner Seed	26	H6762GENSS	157	98.1	27.4	0	29211
Pioneer[4]	**103**	**33D49**	**160**	**99.9**	**27.8**	**9**	**29318**
RPM	59	694HRQ™	131	82.2	25.8	5	29211
RPM	60	723HXR™	151	94.3	27.0	2	27801
Southern States	53	SS 755 GENVT3PRO	156	97.3	26.6	0	29211
Southern States	54	SS 787 GENVT3PRO	168*	105.3	26.6	3	27801
Southern States	55	SS 788 GENVT3PRO	153	95.9	27.2	0	27197
Southern States	56	SS 818 GENVT3PRO	166*	104.0	27.5	1	28607
T.A. Seeds[5]	94	TA 717-00	147	91.9	27.3	18	29599
T.A. Seeds[5]	93	TA 778-02	154	96.3	26.3	10	28607
T.A. Seeds	80	TA 789-20	137	85.6	27.2	0	27600
T.A. Seeds[5]	78	TA 717-20	137	85.4	27.2	3	27797
T.A. Seeds[5]	79	TA 778-28	156	97.6	26.2	0	28014
Trial Mean			**160**		**27.0**	**3**	**28784**
$LSD_{0.10}$			**16**		**1.1**	**4**	**NS**
CV%			**9.3**				

[1]See Table 6 for hybrid type code designations for full season hybrids.
[2]Yields are reported at 15.5% moisture content.
[3]Lodging is recorded as the percentage of plants broken below the ear and/or leaning 45° or greater.
[4]Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.
[5]Hybrid included in 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 2011.

Brand/Company Name	Test Entry Number	Hybrid Name	Relative Yield					
			Avg. 5 Sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta Seed[2]	34	A0607CBLL	104.7	104	109.4	105.1	100.7	104.2
Augusta Seed	29	A2340GT3000	89.0	81	98.6	82.9	100.9	81.5
Augusta Seed	32	A2750GT3000	96.2	90	97.3	93.3	109.1	91.1
Augusta Seed	37	A2852GT3000A	102.5	99	96.4	115.4	111.0	90.6
Augusta Seed	35	A2854CBLL	94.1	97	85.3	97.8	99.1	91.2
Augusta Seed[1]	**33**	**A2857**	**98.9**	**95**	**109.0**	**84.9**	**107.4**	**98.1**
Augusta Seed[2]	51	A2954GT3000A	116.8	133	103.8	122.0	114.5	110.9
Augusta Seed	36	A5457	98.7	112	104.6	95.1	89.9	91.8
Augusta Seed	50	A5557	96.4	83	89.2	93.3	107.4	109.1
Dekalb	99	DKC50-47	93.6	78	110.5	92.7	105.7	81.3
Dekalb	7	DKC52-59	99.3	90	104.4	101.3	102.7	98.0
Dekalb	8	DKC53-45	106.6	125	109.4	109.6	91.7	97.1
Dekalb[1,3]	**9**	**DKC57-50**	**109.9**	**96**	**108.0**	**101.4**	**117.4**	**126.5**
Dyna-Gro	1	DK45VC90	90.7	90	93.7	95.6	83.9	90.2
Garst	69	85V24-3000GT	92.5	90	85.2	107.0	100.6	79.5
Hubner Seed	19	H5222VT3	97.5	107	92.5	98.7	104.1	85.4
Hubner Seed	20	H5288VT3P	99.2	93	88.0	99.7	95.8	119.4
Hubner Seed[3]	21	H5333VT3P	105.4	119	102.0	105.2	96.2	104.4
NK	65	N56V-3000GT	94.4	90	91.0	102.4	89.1	99.3
Pioneer[1]	**100**	**P35K03**	**101.0**	**114**	**106.0**	**93.8**	**97.2**	**94.2**
T.A. SEEDS	75	TA545-20	99.7	78	101.7	98.4	113.0	107.2
T.A. SEEDS	96	TA565-00	104.1	109	96.3	110.6	85.3	119.3
T.A. SEEDS	73	TA565-20	113.8	130	117.7	94.2	90.0	136.9
Trial Mean (bu/acre)			**123**	**109**	**135**	**111**	**153**	**108**

[1]Hybrids in **bold** are check hybrids. They are included through funding provided by the Maryland Grain Producers' Utilization Board.
[2]Hybrids highlighted in light gray have relative yield ratings of 100 or greater at all sites tested.
[3]Hybrids highlighted in dark gray have relative yield ratings of 100 or greater at 4 testing sites.

Table 23. Relative yield scores for mid-season hybrids evaluated in Maryland during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name	Relative Yield %					
			Avg. 5 sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Agra	83	711GT3000	90.2	88	72.7	100.3	105.3	84.8
Augusta Seed	39	A5337EVT3	91.4	86	96.6	102.9	103.6	67.7
Augusta Seed	38	A5461GTCBLLA	101.4	99	102.7	89.7	110.5	104.9
Augusta Seed	43	A5462GT3000A	94.9	106	93.7	94.3	80.9	99.4
Augusta Seed	40	A5558VT3	95.6	97	94.6	86.0	97.8	102.7
Augusta Seed	31	A5560VT3	99.9	98	119.0	102.6	96.3	83.4
Augusta Seed	30	A5658GTCBLL	102.0	103	110.2	96.5	108.4	91.9
Augusta Seed[2]	41	A0720CBLL	109.4	110	111.7	122.4	101.5	101.6
Augusta Seed[3]	42	A0606GTCBLLA	106.0	91	120.1	107.5	109.4	102.0
Dekalb	97	DKC61-21	92.1	85	97.9	97.6	99.1	80.7
Dekalb	98	DKC61-22	100.7	102	103.6	91.4	95.9	110.6
Dekalb	13	DKC62-58	99.1	104	101.8	92.9	95.3	101.6
Dekalb[1]	**86**	**DKC63-14**	**111.9**	**96**	**113.0**	**98.6**	**111.2**	**140.7**
Dekalb[1,2]	**16**	**DKC63-87**	**116.1**	**120**	**123.0**	**111.7**	**113.1**	**112.5**
Dekalb[1,3]	**87**	**DKC61-69**	**106.6**	**99**	**107.1**	**103.4**	**107.3**	**116.2**
Dekalb[2]	14	DKC62-97	110.1	114	110.3	104.3	114.9	107.2
Dekalb[2]	15	DKC63-25	110.9	101	108.4	120.3	114.6	110.3
Dekalb[3]	10	DKC61-35	111.6	113	99.4	115.6	113.8	116.4
Dekalb[3]	11	DKC61-49	107.7	109	108.8	120.9	92.5	107.2
Dekalb[3]	12	DKC61-88	103.1	105	103.9	89.7	109.7	107.3
Dyna-Gro	2	D51SS40	95.9	120	88.2	92.3	94.9	84.1
Dyna-Gro	4	D53VP61	98.6	87	98.6	107.6	110.1	89.5
Dyna-Gro[2]	5	D54VP81	107.9	106	106.9	111.9	111.9	102.8
Garst	88	8489GT	90.3	81	96.3	95.4	85.4	93.6
Garst	70	84A40-3000GT	91.4	91	93.3	91.8	77.6	103.1
Garst	90	84U58-3111	95.9	98	107.2	69.4	110.6	94.4
Garst	89	84U58-GT3000	100.7	91	101.7	108.6	104.2	97.8
Garst[2]	71	83R38-3000GT	108.0	106	107.3	114.8	102.3	109.4
Growmark	82	6296VT3	99.2	102	94.7	96.3	105.5	97.7
Growmark	81	6313VP3	108.3	121	100.4	122.1	99.4	98.8
Hubner Seed	22	H6652GENSS	102.9	96	96.0	111.7	113.9	96.8
Hubner Seed[2]	23	H5609VT3P	107.6	120	105.4	105.6	105.0	101.9
Hubner Seed[3]	24	H4600VT2P	107.5	110	104.7	103.3	120.0	99.4
Mycogen	63	2A695	91.4	95	88.7	74.7	94.3	104.4
Mycogen	64	2H736	103.1	101	117.0	91.9	92.8	112.6
Mycogen	62	2V715	99.6	92	107.8	93.5	105.5	99.1
Mycogen	92	2V738	101.4	102	107.8	103.4	97.6	96.0
NK Brand	67	N71B-GT/CB/LL	90.9	84	111.0	84.7	78.9	95.7
NK Brand[3]	66	N68B-3000GT	100.9	107	121.1	102.0	70.4	103.8
NK Brand[3]	68	N74R-3000GT	107.0	100	92.2	119.1	117.1	106.5
Pioneer[1]	**101**	**34F97**	**93.9**	**99**	**85.1**	**99.1**	**88.0**	**98.1**
Pioneer[1,3]	**102**	**1395HR**	**101.2**	**105**	**88.0**	**101.1**	**106.8**	**105.3**
RPM	57	633HXR™	91.8	102	97.8	86.9	95.8	76.6
RPM	58	634HRQ™	92.8	82	103.2	104.9	85.5	88.3
Southern States	91	684RR2	86.9	96	82.0	98.4	81.4	76.8
Southern States	52	SS 684 GENSS	95.9	100	98.0	104.7	88.0	88.9
T.A Seeds	95	657-02	98.4	87	102.3	92.0	97.9	112.8
T.A Seeds	74	TAS587-22DP	90.2	100	97.8	87.3	73.1	93.0
T.A Seeds	77	TAS720-20	96.4	97	96.6	80.3	102.3	105.7
T.A Seeds	76	TAS657-13VP	103.1	98	112.8	92.4	99.6	112.9
Trial Mean (bu/acre)			**145**	**139**	**189**	**111**	**155**	**129**

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

[2,3]Hybrids in light grey have relative yield ratings of 100 or greater at all testing locations and those highlighted in dark grey have ratings of 100 or greater at 4 testing locations.

Table 24. Relative yield scores for full-season hybrids evaluated in Maryland during 2011.

Brand/Company Name	Test Entry No.	Hybrid Name	Relative Yield %					
			Average 5 Sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta Seed	48	A6164CBLL	99.2	96	98.8	96.3	104.4	100.7
Augusta Seed	47	A6166GT3000A	94.9	95	96.3	84.7	96.3	102.2
Augusta Seed[3]	49	A6465GTCBLL	100.3	70	108.7	105.6	108.2	108.8
Augusta Seed[2]	45	A6867GTCBLLA	107.7	116	107.3	100.3	104.8	110.3
Augusta Seed	46	A7664VT3	98.9	91	109.8	103.2	90.3	100.4
Augusta Seed[1]	**44**	**A6867CBLL**	**102.3**	**98**	**96.1**	**101.4**	**108.3**	**107.8**
Clarks	85	CL1014VT3	93.9	98	93.0	85.8	103.1	89.8
Clarks	84	CL1016VT3	102.1	120	96.9	85.5	108.5	99.7
Dekalb	17	DKC64-69	105.1	95	109.0	98.8	112.4	110.5
Dekalb[3]	18	DKC65-19	105.0	105	107.2	97.3	106.4	109.2
Doebler's	61	674GRQ	96.5	91	91.0	93.6	98.2	108.7
Dyna-Gro	3	57V59	103.8	120	107.3	98.8	102.0	90.9
Dyna-Gro	6	D55VC21	91.4	73	84.4	95.1	105.8	98.5
Garst[3]	72	83Z99-GT/CB/LL	108.2	103	93.2	110.2	110.8	124.0
Hubner Seed[3]	28	H4822VT2P	109.6	123	102.8	125.6	100.5	96.1
Hubner Seed[2]	25	H5709VT3P	115.0	114	103.0	142.7	107.4	108.1
Hubner Seed	27	H5909VT3P	96.6	104	109.6	76.5	98.5	94.2
Hubner Seed	26	H6762GENSS	95.0	91	95.7	103.2	98.1	87.0
Pioneer[1]	**103**	**33D49**	**95.7**	**88**	**105.3**	**94.3**	**99.9**	**91.2**
RPM	59	694HRQ™	89.2	93	89.9	97.3	82.2	83.5
RPM	60	723HXR™	95.6	99	90.7	90.1	94.3	104.0
Southern States	53	SS 755 GENVT3PRO	102.2	115	103.1	91.9	97.3	103.5
Southern States[3]	54	SS 787 GENVT3PRO	103.9	105	97.7	102.8	105.3	108.6
Southern States	55	SS 788 GENVT3PRO	104.6	112	92.8	124.8	95.9	97.7
Southern States	56	SS 818 GENVT3PRO	98.9	94	104.1	108.8	104.0	83.5
T.A Seeds	94	717-00	96.5	101	108.8	85.3	91.9	95.5
T.A Seeds	93	778-02	100.3	105	103.6	98.8	96.3	98.0
T.A. Seeds	80	TA789-20	95.6	89	99.8	108.4	85.6	95.0
T.A. Seeds	78	TA717-20	97.5	112	98.4	93.7	85.4	98.1
T.A. Seeds	79	TA778-28	95.5	90	95.7	99.3	97.6	95.0
Trial Mean (bu/acre)			**143**	**126**	**176**	**119**	**160**	**135**

[1]Hybrids in **bold** are check hybrids. They are included through funding provided by the Maryland Grain Producers' Utilization Board.
[2]Hybrids highlighted in light grey have relative yield ratings of 100 or greater at all testing locations.
[3]Hybrids highlighted in dark grey have relative yield ratings of 100 or greater at 4 testing locations.