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Agronomy Facts No. 54
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2012 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 2012 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 2011 were included in the 2012 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 and corn earworm activity.

During 2012, 99 hybrids were tested in one of three maturity group tests: (1) early season (25 hybrids; Table 4); (2) mid-season (49 hybrids; Table 5); and (3) full season (25 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 5-7.

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 approximately 31 feet. The planter was set to drop 29,500 seeds/acre. Harvest population and number of lodged plants per plot were counted within one week of harvest and frequently occurred the same day as harvest. The center two rows of each plot were harvested to determine yield and harvest moisture of the grain. These data were collected with a HarvestMaster HM 1000 Grain Gauge and recorded on an Allegro Field PC.

Growing Season

Maryland farmers entered the 2012 growing season with over 70% of the state reporting short to very short moisture in the topsoil and subsoil, a situation that did not bode well if periods of drought were to be experienced during the growing season. This was the result of below normal winter precipitation across much of the state. The winter of 2011-2012 also was much warmer than normal. The abnormally warm winter had soil temperatures suitable for planting by early April. Maryland Department of Agriculture (MDA) reported 11% of the crop planted by April 15. Corn planting during the next couple weeks continued to proceed at a faster than normal pace with 34% of the crop reported in the ground by May 1, nearly 10% more than the 5-year average. Planting continued at a fast pace during the first two weeks of May with the 13 May report from MDA indicating that 82% of the crop was planted, a 17% increase over the 5-year average. The May 27 crop progress report estimated corn planting at 96% done, 6% greater than the 5-year average.

Topsoil and subsoil conditions improved from early April to late May when approximately 75% of the state reported conditions that were considered adequate. May temperatures were above normal resulting in faster than normal crop emergence. MDA reported 64% of the crop to be emerged by May 20, 11% better than the 5-year average. By early June, the 2012 crop was rated at 96% good to excellent condition, a higher rating than for the same time in 2011. With the adequate topsoil and subsoil moisture and warm temperatures during early June, crop growth continued at a fast pace. Temperatures during mid-June were normal to slightly below normal allowing the crop to continue to grow well

even though precipitation was below normal. Much of the state reported between 4 and 6 inches below normal precipitation had been received by mid-June.

The favorable temperatures coupled with adequate soil moisture for most of the state had the crop growing at a pace faster than normal. By July 1, nearly a quarter of the crop was reported by MDA to be at the silk stage with over 50% of the crop at silk by July 8. Unfortunately, this most critical growth period for corn coincided with about 10 days of temperatures that averaged over 10 degrees above normal coupled with worsening precipitation conditions. This timing of hot, dry weather coupled with corn pollination was highly unfortunate with many areas of the Eastern Shore and Southern Maryland suffering severe consequences. By mid-July, the crop that was considered 96% good-excellent had deteriorated to only 50% considered good-excellent with the aforementioned regions bearing the brunt. While these areas were suffering, there were reports from Central and Western Maryland indicating that timely rainfall was occurring and that corn in those regions was reaching pollination stage after the extremely hot period during late June and early July. This contrast in growing conditions experienced in Central and Western Maryland allowed the overall crop to maintain a good to excellent rating between 40-45% for the rest of the summer as rainfall across the state improved.

Weather unfavorably dominated a good portion of Maryland's 2012 corn crop. By late July it was general consensus that the 2012 crop was going to be similar to the 2011 drought impacted crop that produced 109 bu/acre. On September 24, Maryland Department of Agriculture's yield estimate for the 2012 crop was 115 bu/acre.

Test Results

The performance of the hybrids in the 2012 Maryland Corn Hybrid Tests by location are found in Tables 8-22. The agronomic characteristics reported are yield in bushels/acre at 15% moisture content, harvest moisture content, per cent lodging, and harvest population.

As seen in Table 3, variable growing season precipitation occurred at the five sites. Both the precipitation amounts and the timing for that precipitation affected the performance of the hybrids by location. In addition, temperatures during late June through the first week of July were five to ten degrees Fahrenheit above normal. The combination of extreme heat and dry conditions coincided with the pollination period at the three Eastern Shore locations. This resulted in yields at the Wye and Poplar Hill to be 30-50 bu/acre below average. At Salisbury, supplemental irrigation was supplied but yield at this location was still 10-15 bu/acre below expectations. Precipitation at Clarksville was the least of the five locations however the timing of that precipitation was suitable to allow good pollination during mid-July which was about a week after the extremely hot weather described earlier. This allowed the hybrids at this location to produce at a level considered average. The Keedysville location received adequate and timely rainfall during the entire growing season supporting yields that were well above average.

Averaged over the five locations, yields for the 25 early season hybrids was 137 bu/acre, 151 bu/acre for the 49 mid-season hybrids, and 148 bu/acre for the25 full season hybrids. Compared to 2011, these yields were 11%, 4%, and 3% more for the early, 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 2012 (Tables 23-25) 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. Based on the relative yield scores, eight hybrids performed exceptionally well: Dyna-Gro brand D45Q50, Garst brand 85V88, and Mycogen brand 2R602 in the early season test; Augusta brand A0720CBLL, Dekalb brands DKC 62-09VT3P and DKC 61-86, and Mycogen brand 2V707 for the mid-season test; and Augusta brand A5363VT3Pro in the full season test.

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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 2012.

Location	Soil Type	Previous crop	Fertilizer	Herbicides	Insecticide	Tillage	Plant date	Harvest date	Farm crew
Wye R & E Center Queenstown, MD	Mattapex silt loam	Soybean	6 Apr 1 T Lime/a 30 Apr 30 lb N/a 30% UAN 29 May 150 lb N/a 30% UAN Dribble **Total** **180-0-0**	30 Apr Lexar @ 3 qt/a	None	27 March Chisel Plow & Disk 20 April Field Cultivator with Rolling Basket	26 Apr	17 Sept	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	6 April 250 lb/a 0-10-30-10 + 0.5% B 29 April 42 lb N/a as 30% UAN 29 May 125 lb N/a as 30% UAN **Total** **167-25-75-25 S +1.25 B**	10 April Gramoxone Inteon @ 1.5 pt/A BiCep II Magnum @ 1.5 pt/A 820 Surfactant @ 6 fl oz/A 11 May Lumax @ 2 qt/A Atrazine @ 1 lb/A	None	No-till into cover crop with aid of trash wheels on planter	28 Apr	12 Sept	David Armentrout Mike Kelly James Lynch Vivian Calder
Lower Eastern Shore R&E Center-Salisbury Salisbury, MD	Fort Mott loamy sand	Wheat Cover Crop	3 April 280 lb/a 0-10-45-20 + 0.5% B 30 April 37 lb N/a as 30% UAN 24 May 100 lb N/a as 30% UAN 1 June 100 lb N/a as 30% UAN **Total** **237-28-126-56 S+1.4 B**	4 April Gramoxone Inteon @ 1.5 pt/a BiCep II Magnum @ 1.5 pt/a 820 Surfactant @ 6 floz/a 10 May Lumax @ 2 qt/a Atrazine @ 1 lb/a	None	No-till into cover crop with aid of trash wheels on planter	28 Apr	14 Sept	David Armentrout Fred Senkbeil
Central Maryland R&E Center - Clarksville Clarksville, MD	Delanco silt loam	Soybean	5 May 130 lb N/a as 30% UAN **Total** **130-0-0**	5 May Bicep II Mag 2 qt/acre Gramoxone Inteon 1.5 pt/acre Surfactant 1 pt/acre Post-Emerge Status w/surfactant 4.5 oz/acre	None	No-till with aid of trash wheels on planter	3 May	12 Oct	David Justice Timothy Ridgley
Western Maryland R&E Center Keedysville, MD	Hagerstown silt loam	Soybean	11 May 150 lb N/acre **Total** **150-0-0**	11 May Lumax 3 qt/acre Simazine 1 qt/acre Gramoxone Inteon 1 qt/acre	None	No-till with aid of trash wheels on planter	10 May	10 Oct	Timothy Ellis Douglas Price

Table 2. Seed brands and companies represented in the 2012 Maryland corn hybrid tests.

Brand	Address
Augusta Seed	Augusta Seed Corporation, 473 Tisdale Farm Lane, Staunton, VA 24401
Channel Seed	Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63167
DeKalb	Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63167
Dyna-Gro	Crop Production Services/Dyna-Gro, 1140 Sweet Road, East Aurora, NY 14052
Garst	Syngenta, 11055 Wayzata Blvd., Minnetonka, MN 55305
FS InVISION	Growmark FS LLC., 308 N.E. Front Street, Milford, DE 19963
Hubner Seed	Hubner Seed, 10280 West State Road, West Lebanon, IN 47991
Mycogen	Mycogen Seeds, 9330 Zionsville Rd., Indianapolis, IN 46268
NK	Syngenta, 11055 Wayzata Blvd., Minnetonka, MN 55305
Partner's Brand	Clark Seeds Inc., 1467 Seven Hickories Rd, Clayton, DE19938
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
Southern States	Southern States, 6606 West Broad St., Richmond, VA 23230
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 2012.

Month	Wye	Poplar Hill	Salisbury[1]	Keedysville	Clarksville
	----------Inches----------				
April	2.54	3.24	3.41(0)	2.34	1.52
May	1.97	1.25	1.22(0.6)	9.39	3.39
June	4.03	1.57	1.85(2.7)	3.86	2.46
July	2.78	2.75	3.80(2.9)	4.56	4.50
August	11.29	5.91	6.66(0.9)	3.30	3.00
September	2.60	7.90	11.50(0)	3.53	2.54
2012 Total	**25.21**	**22.62**	**28.44(7.1)**	**26.98**	**17.41**
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 tests.

Table 4. Glossary of abbreviations for hybrid genetic traits and description of seed treatments used in Tables 4, 5, and 6.

Abbreviation	Description
Conventional	Indicates a hybrid with no biotechnology linked genetic enhancement.
Bt ECB, *CB*, HX, and *HX1*	Contains a *Bacillus thuringiensis* (Bt) event for protection against European corn borer.
RW and CRW	Designates protection against corn rootworm.
RR and GT	Refers to glyphosate (Roundup) herbicide tolerance.
RR2	Designates the second generation event for glyphosate herbicide tolerance.
LL	Refers to glufosinate (Liberty) herbicide tolerance.
GEN VT2P	Provides protection against aboveground Lepidopteran insects and has tolerance to glyphosate.
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 European and Southwestern corn borer.
VT3	A triple stack package for insect protection against corn borer and corn rootworm plus glyphosate herbicide tolerance.
GEN VT3P, VT3P	A triple stack package that protects against European and Southwest corn borer, corn earworm, fall armyworm, and corn rootworm and is glyphosate tolerant.
HXX and HXT	Designates the inclusion of both the Herculex I (HX1) trait and the Herculex RW (HXRW) trait that confer resistance to European and 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 provides protection from larval injury caused by western corn rootworm, northern corn rootworm and Mexican corn rootworm.
SmartStax and GENSS	Refers to hybrids that have eight traits combined or 'stacked' together – 6 for insect resistance (Bt) and 2 for herbicide (Roundup and Liberty) tolerance.
STXRIB	Refers to a SmartStax hybrid that has non-Bt seed blended in the bag creating refuge in the bag.
AcreMax or AM	Refers to a refuge in the bag hybrid.
Viptera 3111	Designates multi-pest control via 14 above and below ground insects plus glyphosate and glufosinate herbicide tolerance.
WO	Refers to traits that impart water optimization for the hybrid.
Cruiser 250	A neonicotinoid based insecticide seed treatment.
Avicta 500	A nematicide seed treatment.
Poncho 250, 500 or 1250	An insecticide seed treatment with the number referring to the concentration of insecticide used.
Votivo and Votivo 1250	A nematicide seed treatment.
Avicta Corn Complete 250	A nematicide/insecticide/fungicide seed treatment combination.
Acceleron 250	A combination insecticide/fungicide seed treatment.
Dynasty Top	A fungicide seed treatment.

Table 5. Relative maturity, genetic traits, and seed treatments for early-season hybrids tested in Maryland during 2012.

Brand/Company Name	Hybrid Name	Entry No.	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta	A0607CBLL	17	107	CBLL	Cruiser 250
Augusta	A2852GT3000A	19	102	GT3000	Avicta 500
Augusta[2]	**A2954GT3000A**	**18**	**104**	**GT3000**	**Avicta 500**
Augusta	A3854HXRR	8	104	HXRR	Cruiser 250
Augusta	A4557	13	107	Conventional	Cruiser 250
Augusta	A4657GT3000	14	107	GT3000	Cruiser 250
Augusta	A5457	16	107	Conventional	Cruiser 250
Dekalb	DKC52-04 VT3P	38	102	VT3P	Avicta500 Votivo
Dekalb	DKC52-61 VT2P	39	102	VT2P	Avicta500 Votivo
Dekalb	DKC53-45 SS	40	103	SmartStax	Avicta500 Votivo
Dekalb	DKC57-25 VT2P	41	107	VT2P	Avicta500 Votivo
Dekalb[2]	**DKC57-50 VT3**	**35**	**107**	**VT3**	**Avicta500 Votivo**
Dekalb	DKC57-76 VT3P	42	107	VT3P	Avicta500 Votivo
Dyna-Gro	D45Q50	1	105	3000GT	P250
Garst	85V88	28	105	3000 GT	Cruiser 250
Hubner	H5333VT3P	72	107	VT3P	Poncho500/Votivo
Hubner	H5368VT3P	71	106	VT3P	Poncho500/Votivo
Mycogen[3]	2R602	99	106	Conventional	Avicta Corn Complete 250
NK	N45P	33	101	GT/CB/LL/RW/WO	Cruiser 250
Pioneer[2]	**P0453HR**	**64**	**104**	**HX1 LL RR2**	**Poncho1250/Votivo**
RPM®	587AM™	89	107	YGCB/HXX/LL/RR2	Votivo 1250
Southern States	SS54-32GENVT3PRO	61	104	VT3PRO	Avicta 250
T.A. Seeds	TA522-22DP	50	102	BtCB RR	Cruiser 250
T.A. Seeds	TA533-31	51	103	BtCB BtRW RR LL	Cruiser 250
T.A. Seeds	TA565-20	52	106	BtCB BtRW RR LL	Cruiser 250

[1]Refer to 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 mid-season hybrids tested in Maryland during 2012.

Brand/ Company Name	Hybrid Name	Entry Test No.	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta	A0606GTCBLLA	22	111	GTCBLL	Avicta 500
Augusta[2]	**A0720CBLL**	**21**	**112**	**CBLL**	**Cruiser 250**
Augusta	A5262GT3000	9	112	GT3000	Cruiser 250
Augusta	A5360	15	110	Conventional	Cruiser 250
Augusta	A5362VT3Pro	10	112	GENVT3P	Cruiser 250
Augusta	A5461GTCBLLA	20	111	GTCBLL	Avicta 500
Augusta	A5558VT3	25	108	VT3	Poncho 250
Augusta	A5560VT3Pro	24	110	GENVT3P	Cruiser 250
Augusta	A5658GTCBLL	23	108	GTCBLL	Cruiser 250
Channel[3]	212-09STXRIB	97	112	STXRIB	
Dekalb	DKC60-62 VT3P	43	110	VT3P	Avicta500 Votivo
Dekalb	DKC61-17 VT3P	44	111	VT3P	Avicta500 Votivo
Dekalb[3]	DKC61-21	101	111	SmartStax	Avicta500 Votivo
Dekalb[3]	DKC61-22	98	111	RR2	Avicta500 Votivo
Dekalb[3]	DKC61-86	100	111	RR2	Avicta500 Votivo
Dekalb	DKC61-88 VT3P	45	111	VT3P	Avicta500 Votivo
Dekalb	DKC62-09 VT3P	46	112	VT3P	Avicta500 Votivo
Dekalb	DKC62-97 VT3P	47	112	VT3P	Avicta500 Votivo
Dekalb[2]	**DKC63-87 VT2P**	**36**	**113**	**VT2P**	**Avicta500 Votivo**
Dyna-Gro	D49VP88	2	109	VT3 PRO	P250
Dyna-Gro	D51VP32	3	111	VT3 PRO	P250
Dyna-Gro	D52VC91	4	112	VT3 PRO	P250
FS InVISION	FS6121VT3P	83	111	VT3P	Acceleron 250
FS InVISION	FS6226VT3P	84	112	VT3P	Acceleron 250
Garst[2]	**83R38**	**27**	**113**	**3000 GT**	**Cruiser 250**
Garst	84U58	29	111	3111 Viptera	Cruiser 250
Hubner	H5405VT3P	75	110	VT3P	Poncho500/Votivo
Hubner	H5609VT3P	74	112	VT3P	Poncho500/Votivo
Hubner	H6644RCSS	73	112	SmartStax RIB	Poncho500/Votivo
Mycogen	2H727	82	111	SmartStax (ECB, CRW, RR, LL)	Avicta Corn Complete 250
Mycogen	2K757	81	110	SmartStax (ECB, CRW, RR, LL)	Avicta Corn Complete 250
Mycogen	2P768	79	112	SmartStax (ECB, CRW, RR, LL)	Avicta Corn Complete 250
Mycogen	2V707	78	110	SmartStax (ECB, CRW, RR, LL)	Avicta Corn Complete 250
Mycogen	X12767HR	80	112	Herculex I (ECB, RR, LL)	Avicta Corn Complete 250
NK	N68B	30	111	3111 Viptera	Cruiser 250
NK[3]	N69Z	96	112	GT	Cruiser 250
NK	N70J	34	112	GT/CB/LL/RW/WO	Cruiser 250
Partner's Brand	PB8287WXBt	69	112	Bt	
Pioneer[2]	**P1184AM-R**	**65**	**111**	**Acre Max RR2**	**Cruiser250+Poncho500/Votivo**
RPM®	609AM1™	92	110	HX1/HXX/LL/RR2	Votivo 1250
RPM®	638AMX-R™	91	110	YGCB/HXX/RR2	Cruiser 250
RPM®	647AM1™	90	108	HX1/HXX/LL/RR2	Votivo 1250
Southern States	SS54-33GENVT3PRO	63	112	VT3PRO	Avicta 250
Southern States	SS62-32GENVT3PRO	62	112	VT3PRO	Avicta 250
T.A. Seeds	TA108-00	54	108	Conventional	Cruiser 250
T.A. Seeds	TA583-22DP	53	108	BtCB RR	Cruiser 250
T.A. Seeds	TA617-20	55	110	BtCB BtRW RR LL	Cruiser 250
T.A. Seeds	TA647-22DP	56	111	BtCB RR	Cruiser 250
T.A. Seeds	TA683-22DP	57	112	BtCB RR	Cruiser 250

[1]Refer to 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. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in Maryland during 2012.

Brand/ Company Name	Hybrid Name	Entry Test No.	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta	A5363VT3Pro	11	113	GENVT3P	Cruiser 250
Augusta	A5565VT3Pro	12	115	GENVT3P	Cruiser 250
Augusta	A6867GTCBLLA	26	117	GTCBLL	Avicta 500
Augusta	A7664VT3	7	114	VT3	Cruiser 250
Dekalb	DKC63-25 VT2P	48	113	VT2P	Avicta500 Votivo
Dekalb	DKC64-69 VT3P	49	114	VT3P	Avicta500 Votivo
Dekalb[2]	**DKC65-19 VT3P**	**37**	**115**	**VT3P**	**Avicta500 Votivo**
Dyna-Gro	D54VP81	5	114	VT3 PRO	Poncho 250
Dyna-Gro	D57VP51	6	117	VT3 PRO	Poncho 250
FS InVISION	FS6313VT3P	85	113	VT3P	Acceleron 250
FS InVISION	FS6321VT3P	86	113	VT3P	Acceleron 250
FS InVISION	FS6329VT3P	87	113	VT3P	Acceleron 250
FS InVISION	FS6611GT3	88	116	GT3	Cruiser 250
Hubner	EX844VT3P	77	115	VT3P	Poncho500/Votivo
Hubner[2]	**H5709VT3P**	**76**	**114**	**VT3P**	**Poncho500/Votivo**
NK	N74G	31	114	3000 GT	Cruiser 250
NK	N78S	32	116	3111 Viptera	Cruiser 250
Partner's Brand	PB8447	70	114	Conventional	
Pioneer[2]	**P1395XR**	**67**	**113**	**HXX LL RR2**	**Cruiser 250+Dynasty Top**
Pioneer[2]	**P1498HR**	**66**	**114**	**HX1 LL RR2**	**Cruiser 250+PPCT2012**
RPM®	688AMX™	93	113	YGCB/HXX/LL/RR2	Cruiser 250
RPM®	743HXR™	94	116	HX1/LL/RR2	Cruiser 250
T.A. Seeds	TA717-20	58	113	BtCB BtRW RR LL	Cruiser 250
T.A. Seeds	TA753-22DP	59	114	BtCB RR	Cruiser 250
T.A. Seeds	TA785-22DP	60	119	BtCB RR	Cruiser 250

[1]Refer to 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 8. Performance of early maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Dekalb[4]	**35**	**DKC57-50 VT3**	**126.1***	**125.1**	**24.94**	**0**	**29765**
Garst	28	85V88	119.8*	118.9	24.26	0	28447
Dyna-Gro	1	D45Q50	118.4*	117.5	22.72	0	26563
Southern States	61	SS54-32GENVT3PRO	118.5*	117.5	18.66	3	30142
Mycogen	99	2R602	116.9*	116.0	20.68	7	28447
Augusta	17	A0607CBLL	113.3*	112.4	25.42	1	25998
Hubner	71	H5368VT3P	113.1*	112.2	22.72	0	28823
T.A. Seeds	50	TA522-22DP	113.0*	112.1	19.56	1	28258
Dekalb	42	DKC57-76 VT3P	109.8*	108.9	24.09	0	27505
RPM®	89	587AM™	101.3	100.5	21.05	1	27505
Dekalb	38	DKC52-04 VT3P	100.4	99.6	21.39	0	27881
Dekalb	39	DKC52-61 VT2P	100.4	99.6	19.27	0	30142
Pioneer[4]	**64**	**P0453HR**	**100.4**	**99.6**	**17.88**	**1**	**28635**
Augusta	16	A5457	99.2	98.4	21.47	12	28447
NK	33	N45P	97.9	97.1	21.40	0	29954
T.A. Seeds	51	TA533-31	97.3	96.5	21.68	0	28635
Dekalb	40	DKC53-45 SS	96.5	95.7	20.78	1	29577
Augusta[4]	**18**	**A2954GT3000A**	**94.3**	**93.6**	**19.38**	**1**	**30142**
Dekalb	41	DKC57-25 VT2P	91.5	90.8	24.40	3	29012
T.A. Seeds	52	TA565-20	87.7	87.0	23.85	0	25056
Augusta	19	A2852GT3000A	86.1	85.4	20.10	0	27505
Hubner	72	H5333VT3P	85.7	85.0	21.25	0	29577
Augusta	13	A4557	81.4	80.8	19.83	6	28635
Augusta	14	A4657GT3000	79.9	79.2	20.99	1	28635
Augusta	8	A3854HXRR	70.4	69.8	21.44	0	30519
Trial Mean			**100.8**		**21.57**	**1**	**28552**
$LSD_{0.10}$			**18.4**		**2.4**	**1.8**	**1890**
CV%			**13.3**				

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

[2]Yields are reported at 15% 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 9. Performance of mid-season maturity hybrids evaluated at Wye R&E Center, Queenstown, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Dekalb	101	DKC 61-21 (SS)	125.2*	122.5	26.77	0	29200
Garst	29	84U58	124.9*	122.2	25.26	0	28635
Augusta	10	A5362VT3Pro	124.7*	122.0	26.55	3	29012
Garst[4]	**27**	**83R38**	**124.5***	**121.8**	**30.38**	**0**	**29765**
Dekalb	45	DKC61-88 VT3P	124.0*	121.4	25.82	0	29577
Dekalb	98	DKC 61-22	123.9*	121.2	24.80	7	30519
T.A. Seeds	56	TA647-22DP	120.2*	117.6	25.95	0	29012
Dekalb	46	DKC62-09 VT3P	119.5*	116.9	26.29	0	29577
Mycogen	78	2V707	118.5*	115.9	25.82	0	27881
Augusta[4]	**21**	**A0720CBLL**	**117.0***	**114.5**	**27.64**	**0**	**29200**
Hubner	74	H5609VT3P	116.9*	114.4	27.88	0	27693
Dekalb	44	DKC61-17 VT3P	114.3*	111.8	24.63	1	29012
Dekalb	47	DKC62-97 VT3P	113.9*	111.5	26.29	0	28635
Southern States	62	SS62-32GENVT3PRO	113.7*	111.2	29.42	0	27693
NK	34	N70J	112.6*	110.2	25.70	1	29389
Southern States	63	SS54-33GENVT3PRO	111.6*	109.2	27.08	0	29765
Augusta	25	A5558VT3	110.8*	108.4	23.54	1	27693
Channel	97	212-09STXRIB	109.1*	106.8	27.03	1	29012
FS InVISION	83	FS6121VT3P	107.5*	105.2	25.45	0	29577
Hubner	73	H6644RCSS	104.0	101.8	29.42	1	29200
Dyna-Gro	2	D49VP88	103.8	101.6	26.27	0	26374
Dyna-Gro	4	D52VC91	103.5	101.2	27.00	2	29954
Dyna-Gro	3	D51VP32	103.4	101.1	23.70	0	27881
Mycogen	79	2P768	103.1	100.9	24.79	0	29577
Augusta	22	A0606GTCBLLA	102.7	100.5	29.07	1	28823
Dekalb	100	DKC 61-86	102.4	100.2	23.25	9	30330
Partner's Brand	69	PB8287WXBt	102.3	100.1	32.15	2	28258
Mycogen	81	2K757	102.0	99.8	25.71	1	28447
Dekalb[4]	**36**	**DKC63-87 VT2P**	**100.6**	**98.5**	**28.00**	**0**	**30142**
T.A. Seeds	57	TA683-22DP	99.1	97.0	23.84	0	28070
NK	30	N68B	98.1	96.0	25.85	0	29200
Hubner	75	H5405VT3P	98.1	96.0	22.58	0	27128
Augusta	23	A5658GTCBLL	97.8	95.7	25.51	0	29200
Mycogen	82	2H727	97.6	95.5	24.78	1	28333
Mycogen	80	X12767HR	95.8	93.8	26.18	0	27881
Augusta	24	A5560VT3Pro	92.5	90.5	24.40	0	27693
T.A. Seeds	54	TA108-00	92.2	90.2	24.62	1	25998
T.A. Seeds	55	TA617-20	91.6	89.7	26.59	1	27128
RPM®	90	647AM1™	89.4	87.5	21.44	0	27316
FS InVISION	84	FS6226VT3P	89.1	87.2	23.49	0	29301
Augusta	9	A5262GT3000	88.9	87.0	24.10	4	26847
Pioneer[4]	**65**	**P1184AM-R**	**88.7**	**86.8**	**26.87**	**0**	**28671**
Augusta	15	A5360	88.4	86.5	22.20	3	29200
Dekalb	43	DKC60-62 VT3P	87.0	85.1	21.00	0	23925
NK	96	N69Z	86.1	84.2	23.18	6	28823
Augusta	20	A5461GTCBLLA	82.2	80.4	24.10	1	29954
T.A. Seeds	53	TA583-22DP	74.7	73.1	23.12	0	27881
RPM®	91	638AMX-R™	74.7	73.1	26.47	1	27236
RPM®	92	609AM1™	66.9	65.5	24.74	0	29577
Trial Mean			**102.9**		**25.65**	**0.9**	**28555**
$LSD_{0.10}$			**20.2**		**1.83**	**1.2**	**2123**
CV%			**14.6**				

[1]See Table 4 for hybrid type designations for mid-season hybrids.
[2]Yields are reported at 15% 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 10. Performance of full season hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta	11	A5363VT3Pro	116.2	124.1	28.64	0	28823
Hubner	77	EX844VT3P	115.4	123.3	25.92	0	28710
FS InVISION	86	FS6321VT3P	115.0	122.8	27.24	0	29577
NK	31	N74G	111.5	119.1	25.80	0	26939
Augusta	12	A5565VT3Pro	110.7	118.3	24.90	0	29200
FS InVISION	85	FS6313VT3P	104.1	111.2	28.05	0	26939
T.A. Seeds	58	TA717-20	101.5	108.4	25.23	0	29012
Dekalb	49	DKC64-69 VT3P	100.7	107.5	23.95	0	28258
FS InVISION	87	FS6329VT3P	97.3	104.0	25.75	0	28447
Augusta	26	A6867GTCBLLA	95.8	102.4	27.91	1	26374
Augusta	7	A7664VT3	95.8	102.3	26.56	0	28627
Dekalb	48	DKC63-25 VT2P	95.0	101.5	26.82	0	27316
Dekalb[4]	**37**	**DKC65-19 VT3P**	**94.3**	**100.8**	**25.88**	**0**	**29200**
NK	32	N78S	92.5	98.8	26.30	0	29200
RPM®	94	743HXR™	91.3	97.5	28.62	0	27693
Dyna-Gro	6	D57VP51	87.1	93.0	25.92	0	28447
T.A. Seeds	60	TA785-22DP	87.1	93.0	29.98	0	28067
RPM®	93	688AMX™	84.8	90.6	24.23	0	28070
Dyna-Gro	5	D54VP81	83.1	88.7	27.46	0	29577
FS InVISION	88	FS6611GT3	82.0	87.6	25.48	0	26751
T.A. Seeds	59	TA753-22DP	81.0	86.6	26.79	0	28447
Pioneer[4]	**67**	**P1395XR**	**81.0**	**86.5**	**24.07**	**0**	**27693**
Pioneer[4]	**66**	**P1498HR**	**76.6**	**81.9**	**23.89**	**0**	**29954**
Clarks Seeds	70	PB8447	73.5	78.6	24.65	3	26939
Hubner[4]	**76**	**H5709VT3P**	**67.7**	**72.3**	**27.00**	**0**	**28823**
Trial Mean			**93.6**		**26.28**	**0.1**	**28283**
$LSD_{0.10}$			**NS**		**2.37**	**0.2**	**1590**
CV%			**21.7**				

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

[2]Yields are reported at 15% 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 early season hybrids at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Mycogen	99	2R602	116.8	121.8	24.78	1	28823
Dekalb	42	DKC57-76 VT3P	109.6	114.3	26.20	1	24867
Dyna-Gro	1	D45Q50	107.3	111.9	24.36	0	27316
Dekalb	39	DKC52-61 VT2P	103.9	108.4	20.14	0	29200
Pioneer[4]	**64**	**P0453HR**	**102.9**	**107.3**	**21.55**	**0**	**27693**
RPM®	89	587AM™	102.8	107.2	24.75	0	27128
Southern States	61	SS54-32GENVT3PRO	102.5	106.9	21.43	1	27505
Dekalb	40	DKC53-45 SS	102.0	106.3	21.25	1	27444
Augusta	19	A2852GT3000A	99.8	104.1	24.00	0	26751
T.A. Seeds	51	TA533-31	99.6	103.9	24.29	0	28823
Augusta	16	A5457	98.2	102.4	24.01	1	28258
Garst	28	85V88	98.2	102.4	25.74	1	28635
T.A. Seeds	52	TA565-20	98.1	102.2	24.31	0	25998
Augusta	17	A0607CBLL	97.7	101.8	25.41	2	23925
Augusta	14	A4657GT3000	96.3	100.4	23.57	0	27505
Hubner	72	H5333VT3P	94.4	98.5	22.83	1	30707
Augusta[4]	**18**	**A2954GT3000A**	**94.3**	**98.3**	**24.04**	**1**	**28258**
Dekalb	41	DKC57-25 VT2P	91.9	95.8	23.58	0	28447
Dekalb[4]	**35**	**DKC57-50 VT3**	**90.3**	**94.1**	**26.36**	**0**	**27316**
Augusta	13	A4557	86.0	89.6	23.94	1	26939
Hubner	71	H5368VT3P	85.8	89.5	20.18	0	29577
Augusta	8	A3854HXRR	84.2	87.8	24.48	0	29012
NK	33	N45P	80.0	83.4	20.18	2	27693
T.A. Seeds	50	TA522-22DP	79.4	82.8	20.07	1	26563
Dekalb	38	DKC52-04 VT3P	79.0	82.3	22.43	2	24019
Trial Mean			**95.9**		**23.28**	**1**	**27642**
$LSD_{0.10}$			**NS**		**1.64**	**NS**	**2888**
CV%			**16.9**				

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

[2]Yields are reported at 15% 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 12. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Garst[4]	27	83R38	142.1*	131.0	28.90	1	29954
Augusta[4]	**21**	**A0720CBLL**	**125.5***	**115.7**	**28.92**	**0**	**28447**
Augusta	23	A5658GTCBLL	124.8*	115.0	26.02	1	28258
FS InVISION	84	FS6226VT3P	121.6	112.0	27.27	0	29765
Dyna-Gro	4	D52VC91	120.7	111.3	28.01	1	28258
T.A. Seeds	55	TA617-20	120.6	111.1	26.48	1	30142
Mycogen	78	2V707	120.4	111.0	25.62	0	27505
Dekalb	46	DKC62-09 VT3P	119.6	110.3	25.34	1	30896
Southern States	63	SS54-33GENVT3PRO	119.7	110.3	28.55	0	28070
NK	34	N70J	119.3	110.0	27.94	0	26374
Hubner	73	H6644RCSS	119.3	109.9	30.20	1	29954
Garst	29	84U58	119.1	109.8	27.07	0	29200
Augusta	20	A5461GTCBLLA	118.5	109.2	27.50	1	26563
Partner's Brand	69	PB8287WXBt	118.1	108.9	31.47	1	28447
Dekalb[4]	**36**	**DKC63-87 VT2P**	**117.6**	**108.4**	**29.32**	**1**	**29200**
Dyna-Gro	2	D49VP88	116.1	107.0	25.60	0	27316
Dekalb	47	DKC62-97 VT3P	115.7	106.6	26.95	0	26751
Dekalb	100	DKC 61-86	115.0	106.0	27.93	1	29954
Dekalb	43	DKC60-62 VT3P	114.9	105.9	26.09	0	25432
Mycogen	80	X12767HR	113.9	104.9	27.99	0	29389
FS InVISION	83	FS6121VT3P	113.6	104.7	25.74	0	29765
Mycogen	81	2K757	112.7	103.9	27.01	0	29200
Augusta	22	A0606GTCBLLA	111.9	103.1	28.80	1	28258
T.A. Seeds	57	TA683-22DP	108.9	100.4	26.76	0	29389
T.A. Seeds	54	TA108-00	108.6	100.1	28.33	1	28823
Dekalb	98	DKC 61-22	108.6	100.1	28.37	0	31084
Channel	97	212-09STXRIB	107.5	99.1	29.31	0	28070
T.A. Seeds	53	TA583-22DP	107.3	98.9	22.33	0	29954
Mycogen	79	2P768	106.6	98.3	28.01	0	29389
Dyna-Gro	3	D51VP32	105.9	97.6	26.92	1	28823
Dekalb	45	DKC61-88 VT3P	105.9	97.6	26.82	1	29577
Southern States	62	SS62-32GENVT3PRO	104.7	96.5	27.74	0	29012
Pioneer[4]	**65**	**P1184AM-R**	**104.6**	**96.4**	**27.37**	**1**	**29765**
Hubner	75	H5405VT3P	104.6	96.4	25.34	1	29788
Augusta	10	A5362VT3Pro	103.8	95.7	28.95	0	31272
Augusta	9	A5262GT3000	103.7	95.6	28.13	0	27505
NK	30	N68B	102.4	94.4	27.47	0	30519
Dekalb	101	DKC 61-21 (SS)	100.4	92.6	27.30	0	27881
Mycogen	82	2H727	100.2	92.3	29.16	1	29012
NK	96	N69Z	98.4	90.7	27.86	0	26751
Hubner	74	H5609VT3P	97.0	89.4	28.36	0	25432
Dekalb	44	DKC61-17 VT3P	96.9	89.3	25.67	0	28823
Augusta	15	A5360	96.6	89.0	26.91	1	30519
T.A. Seeds	56	TA647-22DP	96.3	88.8	25.13	0	31084
RPM®	91	638AMX-R™	91.5	84.4	26.68	1	28635
RPM®	90	647AM1™	91.2	84.0	23.22	1	27881
Augusta	25	A5558VT3	86.6	79.8	27.04	1	26374
RPM®	92	609AM1™	82.2	75.8	28.01	0	29577
Augusta	24	A5560VT3Pro	78.8	72.6	26.86	0	29200
Trial Mean			**109.0**		**27.31**	**0.3**	**28805**
$LSD_{0.10}$			**18.0**		**1.14**	**NS**	**2611**
CV%			**12.2**				

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

[2]Yields are reported at 15% 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 full season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
RPM®	93	688AMX™	135.3	124.3	26.85	1	29389
Dekalb[4]	**37**	**DKC65-19 VT3P**	**134.3**	**123.3**	**28.53**	**1**	**29389**
FS InVISION	85	FS6313VT3P	119.1	109.3	29.83	0	29288
T.A. Seeds	58	TA717-20	118.6	108.9	27.75	0	27505
Pioneer[4]	**66**	**P1498HR**	**115.3**	**105.9**	**26.22**	**0**	**30330**
Hubner	77	EX844VT3P	115.0	105.6	28.58	0	29954
Dyna-Gro	6	D57VP51	114.9	105.5	28.23	0	29389
FS InVISION	88	FS6611GT3	111.4	102.3	27.41	1	28258
Augusta	11	A5363VT3Pro	110.3	101.3	28.08	2	31084
Hubner[4]	**76**	**H5709VT3P**	**110.3**	**101.3**	**28.43**	**1**	**29200**
Augusta	7	A7664VT3	110.0	101.0	28.77	0	29200
Pioneer[4]	**67**	**P1395XR**	**109.9**	**100.9**	**25.18**	**1**	**27128**
Dekalb	49	DKC64-69 VT3P	108.3	99.4	26.77	0	29577
FS InVISION	86	FS6321VT3P	106.8	98.1	27.99	0	28258
Augusta	12	A5565VT3Pro	106.6	97.9	26.54	0	29577
Augusta	26	A6867GTCBLLA	105.8	97.2	28.98	0	26374
Dekalb	48	DKC63-25 VT2P	105.1	96.5	28.22	0	25244
NK	32	N78S	102.9	94.5	29.78	0	27316
NK	31	N74G	102.8	94.4	28.60	0	28635
Clarks Seeds	70	PB8447	100.1	91.9	29.45	1	25809
T.A. Seeds	60	TA785-22DP	99.9	91.7	31.29	0	28447
FS InVISION	87	FS6329VT3P	98.0	90.0	26.78	0	28823
Dyna-Gro	5	D54VP81	97.6	89.6	26.45	0	29577
T.A. Seeds	59	TA753-22DP	92.4	84.9	27.70	0	29954
RPM®	94	743HXR™	86.1	79.0	28.25	0	30142
Trial Mean			**108.9**		**28.02**	**0**	**28714**
$LSD_{0.10}$			**NS**		**1.25**	**0.9**	**2337**
CV%			**17.9**				

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

[2]Yields are reported at 15% 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 early-season hybrids evaluated at Lower Eastern Shore Research and Education Center, Salisbury Facility, Salisbury, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Dekalb	40	DKC53-45 SS	175.8	112.7	20.46	0	27437
Garst	28	85V88	171.7	110.1	20.17	0	29389
T.A. Seeds	51	TA533-31	169.4	108.6	20.57	0	28070
Augusta	14	A4657GT3000	168.0	107.7	21.49	0	29012
Southern States	61	SS54-32GENVT3PRO	166.7	106.9	20.20	0	28070
Augusta	19	A2852GT3000A	165.8	106.3	21.07	1	30709
Dekalb[4]	**35**	**DKC57-50 VT3**	**164.4**	**105.4**	**19.32**	**0**	**28258**
Dyna-Gro	1	D45Q50	163.0	104.5	20.80	0	28258
Dekalb	39	DKC52-61 VT2P	162.0	103.8	19.94	0	26563
Mycogen	99	2R602	156.6	100.4	21.14	0	27881
NK	33	N45P	156.4	100.3	20.99	0	26751
Augusta	13	A4557	155.7	99.8	19.86	0	29012
Hubner	72	H5333VT3P	155.6	99.8	19.13	0	28258
T.A. Seeds	52	TA565-20	155.5	99.7	19.79	0	28635
T.A. Seeds	50	TA522-22DP	154.4	99.0	19.66	0	28258
RPM®	89	587AM™	153.0	98.1	21.45	0	28447
Augusta[4]	**18**	**A2954GT3000A**	**152.8**	**97.9**	**18.59**	**0**	**27881**
Dekalb	41	DKC57-25 VT2P	152.8	97.9	19.78	0	26939
Augusta	8	A3854HXRR	151.4	97.1	20.03	0	26186
Dekalb	42	DKC57-76 VT3P	148.0	94.9	19.04	0	26751
Augusta	16	A5457	146.1	93.6	20.82	0	26563
Dekalb	38	DKC52-04 VT3P	144.0	92.3	19.05	0	28635
Pioneer[4]	**64**	**P0453HR**	**141.6**	**90.8**	**18.85**	**0**	**26826**
Hubner	71	H5368VT3P	140.7	90.2	18.83	0	29765
Augusta	17	A0607CBLL	128.1	82.1	19.57	0	28447
Trial Mean			**156.0**		**20.02**	**0.02**	**28040**
$LSD_{0.10}$			**NS**		**NS**	**NS**	**NS**
CV%			**13.9**				

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

[2]Yields are reported at 15% 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 15. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury, MD during 2012.

Brand/Company	Test Number	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Dekalb	46	DKC62-09 VT3P	197.4*	120.6	22.47	0	30519
Dekalb	100	DKC 61-86	194.4*	118.8	19.40	1	28258
Dekalb	45	DKC61-88 VT3P	191.7*	117.1	20.92	0	29765
Dyna-Gro	2	D49VP88	188.0*	114.8	20.95	0	29200
Garst	29	84U58	182.5*	111.5	22.99	0	28823
Dekalb[4]	**36**	**DKC63-87 VT2P**	**181.1***	**110.6**	**24.50**	**0**	**29012**
Mycogen	80	X12767HR	179.4*	109.6	24.32	0	29200
FS InVISION	84	FS6226VT3P	178.7*	109.2	21.20	0	30304
Dyna-Gro	4	D52VC91	178.6*	109.1	22.95	0	28070
Mycogen	82	2H727	177.2*	108.3	22.61	0	29012
Dyna-Gro	3	D51VP32	176.2*	107.6	22.19	0	28258
Mycogen	81	2K757	176.0*	107.5	24.59	0	28823
FS InVISION	83	FS6121VT3P	175.6*	107.3	20.10	1	29577
NK	34	N70J	174.7*	106.7	23.23	0	27505
Southern States	62	SS62-32GENVT3PRO	172.0*	105.1	21.33	0	29200
Dekalb	101	DKC 61-21 (SS)	170.9	104.4	20.38	1	26939
T.A. Seeds	53	TA583-22DP	169.4	103.5	18.56	1	29577
Garst[4]	**27**	**83R38**	**168.7**	**103.1**	**25.86**	**0**	**28823**
Dekalb	44	DKC61-17 VT3P	168.2	102.7	20.47	1	29200
T.A. Seeds	57	TA683-22DP	168.0	102.6	22.21	0	28635
Augusta[4]	**21**	**A0720CBLL**	**166.8**	**101.9**	**24.68**	**0**	**31461**
Mycogen	78	2V707	166.8	101.9	20.79	0	27693
Augusta	20	A5461GTCBLLA	165.1	100.8	22.43	3	27693
Dekalb	98	DKC 61-22	161.8	98.9	22.12	1	27881
Dekalb	47	DKC62-97 VT3P	161.6	98.7	21.62	0	28447
RPM®	90	647AM1™	160.5	98.1	19.62	1	29200
Augusta	24	A5560VT3Pro	160.5	98.0	21.59	0	29389
Dekalb	43	DKC60-62 VT3P	160.2	97.9	20.00	1	25621
T.A. Seeds	56	TA647-22DP	160.0	97.7	23.30	1	29765
Mycogen	79	2P768	159.6	97.5	24.42	0	29389
T.A. Seeds	55	TA617-20	159.3	97.3	21.78	0	30330
Augusta	23	A5658GTCBLL	159.2	97.2	21.22	0	31084
Hubner	75	H5405VT3P	158.5	96.8	21.23	0	28070
Augusta	10	A5362VT3Pro	156.7	95.7	23.63	1	28447
Hubner	73	H6644RCSS	156.3	95.5	24.83	0	29389
Augusta	15	A5360	155.6	95.0	19.72	1	28823
NK	30	N68B	153.3	93.7	22.84	0	28447
Channel	97	212-09STXRIB	151.3	92.4	24.09	0	29577
Augusta	22	A0606GTCBLLA	150.3	91.8	25.56	0	26962
Hubner	74	H5609VT3P	148.3	90.6	23.30	0	27881
Augusta	9	A5262GT3000	148.2	90.5	24.58	0	28070
NK	96	N69Z	148.1	90.5	24.50	0	29389
Pioneer[4]	**65**	**P1184AM-R**	**146.3**	**89.4**	**23.23**	**0**	**30330**
T.A. Seeds	54	TA108-00	145.0	88.6	23.28	1	25809
RPM®	92	609AM1™	144.5	88.3	20.93	0	29765
Partner's Brand	69	PB8287WXBt	139.3	85.1	27.44	0	27505
Southern States	63	SS54-33GENVT3PRO	138.9	84.8	24.75	0	28823
RPM®	91	638AMX-R™	136.3	83.3	21.71	0	26939
Augusta	25	A5558VT3	130.0	79.4	22.81	0	28447
Trial Mean			**163.6**		**22.52**	**0.22**	**28762**
$LSD_{0.10}$			**26.0**		**2.08**	**NS**	**2016**
CV%			**11.7**				

[1]See Table 4 for hybrid type code designations for mid-season hybrids.
[2]Yields are reported at 15% 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 16. Performance of full season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Hubner	77	EX844VT3P	196.9*	112.8	20.78	0	27881
Augusta	12	A5565VT3Pro	193.7*	111.0	21.94	0	28447
Dyna-Gro	6	D57VP51	193.3*	110.8	21.14	0	28823
T.A. Seeds	60	TA785-22DP	192.5*	110.3	20.99	0	28447
Augusta	11	A5363VT3Pro	192.0*	110.0	19.47	1	30051
FS InVISION	86	FS6321VT3P	189.1*	108.4	19.62	1	28823
T.A. Seeds	59	TA753-22DP	187.2*	107.3	20.02	1	30519
NK	31	N74G	185.0*	106.0	19.74	0	27881
Dekalb	49	DKC64-69 VT3P	185.0*	106.0	20.27	0	28823
NK	32	N78S	182.8*	104.8	23.95	0	29389
FS InVISION	87	FS6329VT3P	182.0*	104.3	19.13	0	29012
Dekalb[4]	**37**	**DKC65-19 VT3P**	**180.0***	**103.2**	**21.65**	**0**	**30330**
Augusta	26	A6867GTCBLLA	179.8*	103.1	23.82	0	25998
Dyna-Gro	5	D54VP81	179.1*	102.6	21.45	0	29765
Pioneer[4]	**66**	**P1498HR**	**177.1***	**101.5**	**20.39**	**0**	**29389**
Hubner[4]	**76**	**H5709VT3P**	**174.1***	**99.8**	**21.23**	**0**	**28070**
FS InVISION	85	FS6313VT3P	169.6	97.2	22.51	0	29389
FS InVISION	88	FS6611GT3	168.7	96.7	20.88	1	29200
Dekalb	48	DKC63-25 VT2P	165.9	95.1	21.87	0	29765
T.A. Seeds	58	TA717-20	159.3	91.3	21.71	0	29200
Augusta	7	A7664VT3	158.6	90.9	23.43	0	28823
Clarks Seeds	70	PB8447	156.6	89.8	21.26	0	29954
RPM®	93	688AMX™	154.0	88.2	19.33	0	28447
Pioneer[4]	**67**	**P1395XR**	**133.3**	**76.4**	**18.89**	**0**	**28447**
RPM®	94	743HXR™	126.0	72.2	20.16	2	29389
Trial Mean			**174.5**		**21.03**	**0.2**	**1825**
$LSD_{0.10}$			**22.8**		**1.28**	**NS**	
CV%			**9.6**				

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

[2]Yields are reported at 15% 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 17. Performance of early season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Garst	28	85V88	211.2*	112.6	16.57	0	29012
Dekalb[4]	**35**	**DKC57-50 VT3**	**204.2***	**108.8**	**18.01**	**1**	**28635**
Augusta	8	A3854HXRR	203.3*	108.4	16.95	0	30519
Dekalb	42	DKC57-76 VT3P	201.7*	107.5	16.82	2	28635
Dekalb	38	DKC52-04 VT3P	201.6*	107.4	16.24	0	27505
Augusta[4]	**18**	**A2954GT3000A**	**200.3***	**106.8**	**16.87**	**1**	**27881**
Augusta	14	A4657GT3000	199.7*	106.4	16.38	0	29200
Mycogen	99	2R602	196.4*	104.7	17.02	3	27693
Dekalb	41	DKC57-25 VT2P	194.5*	103.7	16.96	0	29389
Hubner	71	H5368VT3P	191.5	102.1	15.55	2	29577
Dyna-Gro	1	D45Q50	191.3	102.0	16.51	1	26939
T.A. Seeds	52	TA565-20	190.5	101.6	17.04	1	25056
Hubner	72	H5333VT3P	189.6	101.1	16.81	2	30519
Augusta	17	A0607CBLL	189.1	100.8	16.38	0	24679
Pioneer[4]	**64**	**P0453HR**	**186.3**	**99.3**	**16.76**	**4**	**29577**
Dekalb	40	DKC53-45 SS	181.7	96.8	15.71	1	27505
Augusta	13	A4557	179.6	95.7	17.88	3	29389
NK	33	N45P	179.3	95.6	16.02	1	28823
T.A. Seeds	51	TA533-31	176.8	94.2	18.09	1	26939
Southern States	61	SS54-32GENVT3PRO	173.0	92.2	15.70	3	28635
RPM®	89	587AM™	172.8	92.1	19.55	2	28447
Dekalb	39	DKC52-61 VT2P	171.7	91.5	14.93	1	29765
Augusta	16	A5457	171.5	91.4	18.80	3	28777
T.A. Seeds	50	TA522-22DP	169.7	90.4	16.09	0	25998
Augusta	19	A2852GT3000A	163.2	87.0	16.56	1	28070
Trial Mean			**187.6**		**16.81**	**1.3**	**28286**
$LSD_{0.10}$			**18.8**		**1.23**	**NS**	**2411**
CV%			**7.3**				

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

[2]Yields are reported at 15% 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 18. Performance of mid-season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2012.

Brand/Company	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Dekalb	46	DKC62-09 VT3P	242.9*	113.7	17.63	1	30355
Augusta	20	A5461GTCBLLA	240.4*	112.5	19.49	0	29006
Mycogen	80	X12767HR	236.4*	110.6	19.11	0	30355
Dekalb	100	DKC 61-86	235.3*	110.1	19.38	10	29231
Dekalb	45	DKC61-88 VT3P	234.6*	109.8	19.12	1	30355
T.A. Seeds	56	TA647-22DP	233.8*	109.4	19.46	0	32379
Augusta	22	A0606GTCBLLA	227.9*	106.6	20.90	2	30131
Dyna-Gro	4	D52VC91	225.8*	105.7	19.06	1	30355
Pioneer[4]	**65**	**P1184AM-R**	**225.7***	**105.6**	**19.88**	**4**	**31929**
Augusta	10	A5362VT3Pro	224.7*	105.1	20.30	1	31030
Dekalb[4]	**36**	**DKC63-87 VT2P**	**224.1***	**104.9**	**18.09**	**1**	**30805**
Channel	97	212-09STXRIB	222.6*	104.2	20.67	0	29906
Dekalb	47	DKC62-97 VT3P	222.2*	104.0	18.92	1	31255
Southern States	63	SS54-33GENVT3PRO	221.3*	103.5	21.10	2	31705
FS InVISION	83	FS6121VT3P	219.7*	102.8	18.55	2	29006
RPM®	90	647AM1™	219.5*	102.7	18.37	1	31030
Mycogen	78	2V707	218.6*	102.3	17.66	1	30805
T.A. Seeds	57	TA683-22DP	217.7	101.9	20.79	0	30805
Augusta	25	A5558VT3	217.6	101.8	19.72	1	30131
Hubner	74	H5609VT3P	217.5	101.8	20.55	0	30580
Augusta[4]	**21**	**A0720CBLL**	**217.0**	**101.5**	**23.42**	**1**	**31030**
Augusta	15	A5360	216.7	101.4	19.39	9	29456
Southern States	62	SS62-32GENVT3PRO	216.7	101.4	19.87	1	28557
Mycogen	82	2H727	215.4	100.8	19.80	5	30131
Garst[4]	**27**	**83R38**	**215.1**	**100.7**	**20.04**	**0**	**30355**
FS InVISION	84	FS6226VT3P	215.0	100.6	17.68	0	31030
Dyna-Gro	3	D51VP32	213.9	100.1	20.11	0	30355
T.A. Seeds	53	TA583-22DP	213.9	100.1	16.50	2	30805
Dekalb	44	DKC61-17 VT3P	212.7	99.5	18.02	0	28781
Augusta	9	A5262GT3000	209.8	98.2	20.69	2	27882
Hubner	73	H6644RCSS	209.4	98.0	21.56	7	28107
Augusta	24	A5560VT3Pro	206.9	96.8	17.93	1	31030
NK	34	N70J	206.9	96.8	19.99	1	26533
Augusta	23	A5658GTCBLL	206.3	96.6	19.01	0	26983
Mycogen	81	2K757	206.5	96.6	17.93	1	30580
T.A. Seeds	55	TA617-20	205.5	96.1	18.87	0	30355
Hubner	75	H5405VT3P	204.4	95.7	19.28	1	29681
NK	30	N68B	203.8	95.4	17.72	5	27657
Dekalb	98	DKC 61-22	202.1	94.6	18.69	6	28557
Dekalb	43	DKC60-62 VT3P	201.9	94.5	18.46	4	26758
T.A. Seeds	54	TA108-00	199.7	93.5	16.46	3	28107
Dyna-Gro	2	D49VP88	198.1	92.7	19.08	0	29456
Garst	29	84U58	198.2	92.7	18.29	2	29006
NK	96	N69Z	198.2	92.7	20.38	5	30355
Partner's Brand	69	PB8287WXBt	195.7	91.6	22.57	0	30131
RPM®	92	609AM1™	193.5	90.5	19.88	0	30580
RPM®	91	638AMX-R™	190.5	89.1	19.72	3	30355
Mycogen	79	2P768	189.9	88.8	19.71	5	30131
Dekalb	101	DKC 61-21 (SS)	189.7	88.8	18.43	1	30131
Trial Mean			**214.0**		**19.35**	**1.9**	**29878**
$LSD_{0.10}$			**24.9**		**1.68**	**2.8**	**2517**
CV%			**8.6**				

[1]See Table 4 for hybrid type code designations for mid-season hybrids.
[2]Yields are reported at 15% 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 19. Performance of full season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
FS InVISION	88	FS6611GT3	222.1*	107.8	19.86	0	29012
NK	31	N74G	221.3*	107.4	19.35	1	27316
T.A. Seeds	58	TA717-20	218.5*	106.1	21.70	1	29389
RPM®	94	743HXR™	218.7*	106.1	19.01	1	29012
T.A. Seeds	60	TA785-22DP	217.4*	105.6	20.30	0	29200
Augusta	11	A5363VT3Pro	217.0*	105.4	18.04	1	29389
FS InVISION	86	FS6321VT3P	215.6*	104.6	18.07	0	29389
Dyna-Gro	6	D57VP51	214.7*	104.2	21.77	0	30330
Hubner	77	EX844VT3P	214.2*	104.0	21.00	0	28258
Dekalb[4]	**37**	**DKC65-19 VT3P**	**213.8***	**103.8**	**21.40**	**1**	**29765**
NK	32	N78S	213.2*	103.5	18.79	1	29765
Dekalb	48	DKC63-25 VT2P	209.3*	101.6	20.86	0	31272
Augusta	26	A6867GTCBLLA	208.2*	101.1	22.88	1	27881
FS InVISION	87	FS6329VT3P	208.3*	101.1	19.55	1	28258
Hubner[4]	**76**	**H5709VT3P**	**206.1***	**100.0**	**19.60**	**0**	**29012**
Dyna-Gro	5	D54VP81	204.6*	99.3	19.40	0	30707
Dekalb	49	DKC64-69 VT3P	203.8*	98.9	19.87	1	29012
Augusta	12	A5565VT3Pro	199.5*	96.8	19.70	2	29389
Pioneer[4]	**67**	**P1395XR**	**194.8**	**94.5**	**19.46**	**1**	**27881**
RPM®	93	688AMX™	192.8	93.6	19.93	0	29389
Pioneer[4]	**66**	**P1498HR**	**191.0**	**92.7**	**19.80**	**1**	**29765**
Clarks Seeds	70	PB8447	190.5	92.5	20.48	1	25809
FS InVISION	85	FS6313VT3P	187.4	91.0	20.76	0	29200
Augusta	7	A7664VT3	183.7	89.2	21.38	0	29200
T.A. Seeds	59	TA753-22DP	182.8	88.7	19.37	1	30330
Trial Mean			**206.0**		**20.09**	**0.5**	**29117**
$LSD_{0.10}$			**22.9**		**1.21**	**NS**	**1923**
CV%							

[1]See Table 4 for hybrid type code designations for full season hybrids.
[2]Yields are reported at 15% 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 20. Performance of early hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Mycogen	99	2R602	187.0*	127.2	15.74	6	28823
Augusta	14	A4657GT3000	181.1*	123.2	15.37	4	25432
Hubner	72	H5333VT3P	178.4*	121.4	15.07	3	27505
Garst	28	85V88	172.3*	117.2	17.01	0	29389
Dekalb	41	DKC57-25 VT2P	169.6*	115.4	15.28	5	28635
Pioneer[4]	**64**	**P0453HR**	**168.4***	**114.5**	**14.58**	**2**	**28070**
Dyna-Gro	1	D45Q50	166.8*	113.4	14.96	5	24490
Augusta	13	A4557	164.7*	112.0	16.17	9	29389
Augusta	16	A5457	162.6*	110.6	16.41	6	24490
Dekalb[4]	**35**	**DKC57-50 VT3**	**160.5***	**109.2**	**16.63**	**11**	**27128**
Augusta	8	A3854HXRR	157.8*	107.3	15.89	17	29954
RPM®	89	587AM™	157.6*	107.2	16.82	0	26186
Augusta	17	A0607CBLL	154.8*	105.3	15.46	7	25432
Dekalb	40	DKC53-45 SS	153.8*	104.6	14.98	15	26186
T.A. Seeds	51	TA533-31	148.6*	101.1	15.69	4	27693
Dekalb	38	DKC52-04 VT3P	142.9	97.2	15.22	34	25998
Augusta	19	A2852GT3000A	139.5	94.9	15.55	25	30330
T.A. Seeds	52	TA565-20	139.6	94.9	15.48	13	22795
Dekalb	39	DKC52-61 VT2P	139.3	94.8	13.79	21	28635
Dekalb	42	DKC57-76 VT3P	138.9	94.5	15.54	9	25621
Augusta[4]	**18**	**A2954GT3000A**	**129.9**	**88.3**	**16.23**	**37**	**28447**
Southern States	61	SS54-32GENVT3PRO	104.7	71.2	15.12	46	26374
NK	33	N45P	93.3	63.5	15.37	39	26751
T.A. Seeds	50	TA522-22DP	87.0	59.2	16.26	52	25244
Hubner	71	H5368VT3P	75.6	51.4	15.15	49	27316
Trial Mean			**147.0**		**15.59**	**17**	**27053**
$LSD_{0.10}$			**43.8**		**0.85**	**24.8**	**2919**
CV%			**21.8**				

[1]See Table 4 for hybrid type code designations for early-season hybrids.
[2]Yields are reported at 15% 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 21. Performance of mid-season hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2012.

Brand/Company	Test Entry No.	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
Augusta	9	A5262GT3000	192.2	113.9	16.67	1	26563
Augusta	22	A0606GTCBLLA	191.9	113.7	17.66	0	30142
Hubner	74	H5609VT3P	189.4	112.2	17.37	1	28823
Dekalb[4]	**36**	**DKC63-87 VT2P**	**188.4**	**111.6**	**16.14**	**2**	**29577**
Dekalb	44	DKC61-17 VT3P	188.4	111.6	16.45	4	27505
Dekalb	46	DKC62-09 VT3P	188.2	111.5	16.08	15	28823
NK	96	N69Z	188.3	111.5	17.82	1	30330
Pioneer[4]	**65**	**P1184AM-R**	**185.1**	**109.7**	**16.70**	**8**	**28258**
Augusta	15	A5360	184.1	109.1	16.23	15	27316
Mycogen	78	2V707	184.1	109.1	15.42	15	28070
NK	30	N68B	182.0	107.8	16.74	1	27693
Augusta	20	A5461GTCBLLA	181.7	107.6	16.30	16	26751
T.A. Seeds	56	TA647-22DP	180.3	106.8	15.95	6	29577
Augusta	23	A5658GTCBLL	179.4	106.3	16.45	6	28635
Garst	29	84U58	176.6	104.6	15.60	0	30142
Augusta[4]	**21**	**A0720CBLL**	**175.4**	**103.9**	**18.33**	**7**	**28070**
Augusta	24	A5560VT3Pro	174.4	103.3	16.33	12	29012
Augusta	10	A5362VT3Pro	174.1	103.1	17.96	5	27316
T.A. Seeds	53	TA583-22DP	173.1	102.6	14.80	8	27316
RPM®	92	609AM1™	173.1	102.5	16.10	1	29200
Southern States	63	ss54-33GENVT3PRO	171.9	101.9	17.68	7	27693
FS InVISION	84	FS6226VT3P	171.2	101.4	15.94	3	27316
Mycogen	81	2K757	170.0	100.7	17.61	0	29012
Dekalb	100	DKC 61-86	170.0	100.7	15.74	1	30330
T.A. Seeds	55	TA617-20	169.3	100.3	15.93	3	27881
Dekalb	98	DKC 61-22	168.6	99.9	16.91	3	26186
Dekalb	47	DKC62-97 VT3P	167.9	99.5	15.50	0	23925
Dekalb	43	DKC60-62 VT3P	167.5	99.2	16.50	1	25244
T.A. Seeds	57	TA683-22DP	167.5	99.2	16.55	3	27881
Dekalb	45	DKC61-88 VT3P	167.0	98.9	16.06	6	29012
Augusta	25	A5558VT3	166.4	98.6	16.13	18	28258
Hubner	75	H5405VT3P	166.4	98.6	15.59	3	26374
Dyna-Gro	4	D52VC91	166.1	98.4	16.64	6	27316
Southern States	62	ss62-32GENVT3PRO	164.6	97.5	15.35	0	26939
Hubner	73	H6644RCSS	163.2	96.7	17.96	1	27881
Mycogen	79	2P768	163.3	96.7	17.21	12	28823
FS InVISION	83	FS6121VT3P	163.0	96.6	15.20	1	28070
Channel	97	212-09STXRIB	163.1	96.6	18.00	8	26751
Garst[4]	**27**	**83R38**	**161.5**	**95.7**	**18.13**	**3**	**26374**
Dyna-Gro	2	D49VP88	159.1	94.3	15.73	1	25244
T.A. Seeds	54	TA108-00	156.1	92.5	16.18	12	26186
Dyna-Gro	3	D51VP32	154.1	91.3	16.08	3	26751
Dekalb	101	DKC 61-21 (SS)	150.5	89.1	15.75	12	29200
Partner's Brand	68	PB7559RR	147.2	87.2	16.37	13	28823
Mycogen	82	2H727	146.9	87.0	16.21	20	27316
Partner's Brand	69	PB8287WXBt	144.2	85.4	20.16	22	27881
RPM®	90	647AM1™	143.9	85.3	14.85	4	27128
NK	34	N70J	142.0	84.1	16.92	2	26751
RPM®	91	638AMX-R™	137.7	81.6	16.13	12	27128
Mycogen	80	X12767HR	137.6	81.5	16.81	31	29200
Trial Mean			**169.2**		**16.54**	**6.6**	**27820**
$LSD_{0.10}$			**NS**		**1.39**	**NS**	**2419**
CV%			**13.7**				

[1]See Table 4 for hybrid type code designations for mid-season hybrids.
[2]Yields are reported at 15% 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 22. Performance of full season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name[1]	Yield (bu/a)[2]	Relative Yield	Moisture %	Lodging[3] %	Population (plants/A)
FS InVISION	86	FS6321VT3P	181.9	115.8	14.99	2	27881
NK	32	N78S	178.6	113.7	17.98	1	30142
Dyna-Gro	6	D57VP51	174.4	111.0	16.34	5	30142
Hubner[4]	**76**	**H5709VT3P**	**165.8**	**105.5**	**16.22**	**0**	**28070**
Augusta	11	A5363VT3Pro	165.3	105.2	15.14	0	27505
Dekalb	49	DKC64-69 VT3P	165.2	105.1	16.19	4	29012
RPM®	94	743HXR™	163.1	103.8	16.63	8	30707
Pioneer[4]	**67**	**P1395XR**	**160.1**	**101.9**	**15.83**	**7**	**28447**
Dyna-Gro	5	D54VP81	158.8	101.1	17.26	2	30330
FS InVISION	85	FS6313VT3P	158.5	100.9	16.99	3	29577
T.A. Seeds	60	TA785-22DP	158.2	100.7	16.20	1	27881
FS InVISION	87	FS6329VT3P	156.1	99.4	16.63	4	28447
Hubner	77	EX844VT3P	156.1	99.3	16.66	2	26751
FS InVISION	88	FS6611GT3	155.4	98.9	17.08	6	28823
Pioneer[4]	**66**	**P1498HR**	**154.3**	**98.2**	**15.62**	**14**	**29389**
Augusta	12	A5565VT3Pro	153.0	97.4	17.19	10	28070
RPM®	93	688AMX™	152.3	97.0	15.37	3	28258
Augusta	26	A6867GTCBLLA	151.9	96.7	18.18	2	28823
T.A. Seeds	59	TA753-22DP	151.8	96.6	16.40	0	29954
Dekalb[4]	**37**	**DKC65-19 VT3P**	**150.7**	**95.9**	**18.05**	**3**	**30707**
Clarks Seeds	70	PB8447	148.9	94.8	15.77	5	27316
Augusta	7	A7664VT3	146.0	92.9	18.26	1	29012
Dekalb	48	DKC63-25 VT2P	145.0	92.3	16.81	1	28823
NK	31	N74G	144.0	91.7	18.01	1	28447
T.A. Seeds	58	TA717-20	132.8	84.5	18.48	29	29389
Trial Mean			**157.1**		**16.73**	**4.6**	**28876**
$LSD_{0.10}$			**NS**		**1.03**	**7.1**	**NS**
CV%			**10.9**				

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

[2]Yields are reported at 15% 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 23. Relative yield scores for early season hybrids evaluated in Maryland during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name	Relative Yield					
			Avg. 5 Sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Mycogen[2]	99	2R602	114.0	116.0	100.4	121.8	127.2	104.7
Garst[2]	28	85V88	112.2	118.9	110.1	102.4	117.2	112.6
Dyna-Gro[2]	1	D45Q50	109.9	117.5	104.5	111.9	113.4	102.0
Dekalb[1,3]	**35**	**DKC57-50 VT3**	**108.5**	**125.1**	**105.4**	**94.1**	**109.2**	**108.8**
Dekalb	42	DKC57-76 VT3P	104.0	108.9	94.9	114.3	94.5	107.5
Augusta[3]	14	A4657GT3000	103.4	79.2	107.7	100.4	123.2	106.4
Dekalb	40	DKC53-45 SS	103.2	95.7	112.7	106.3	104.6	96.8
Pioneer[1]	**64**	**P0453HR**	**102.3**	**99.6**	**90.8**	**107.3**	**114.5**	**99.3**
Hubner	72	H5333VT3P	101.2	85.0	99.8	98.5	121.4	101.1
RPM®	89	587AM™	101.0	100.5	98.1	107.2	107.2	92.1
T.A. Seeds	51	TA533-31	100.9	96.5	108.6	103.9	101.1	94.2
Dekalb	41	DKC57-25 VT2P	100.7	90.8	97.9	95.8	115.4	103.7
Augusta[3]	17	A0607CBLL	100.5	112.4	82.1	101.8	105.3	100.8
Dekalb	39	DKC52-61 VT2P	99.6	99.6	103.8	108.4	94.8	91.5
Augusta	16	A5457	99.3	98.4	93.6	102.4	110.6	91.4
Southern States	61	SS54-32GENVT3PRO	98.9	117.5	106.9	106.9	71.2	92.2
T.A. Seeds	52	TA565-20	97.1	87.0	99.7	102.2	94.9	101.6
Augusta[1]	**18**	**A2954GT3000A**	**97.0**	**93.6**	**97.9**	**98.3**	**88.3**	**106.8**
Dekalb	38	DKC52-04 VT3P	95.8	99.6	92.3	82.3	97.2	107.4
Augusta	13	A4557	95.6	80.8	99.8	89.6	112.0	95.7
Augusta	19	A2852GT3000A	95.5	85.4	106.3	104.1	94.9	87.0
Augusta	8	A3854HXRR	94.1	69.8	97.1	87.8	107.3	108.4
Hubner	71	H5368VT3P	89.1	112.2	90.2	89.5	51.4	102.1
T.A. Seeds	50	TA522-22DP	88.7	112.1	99.0	82.8	59.2	90.4
NK	33	N45P	88.0	97.1	100.3	83.4	63.5	95.6
Trial Mean (bu/acre)				**100.8**	**156**	**95.9**	**147**	**187.6**

[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 24. Relative yield scores for mid-season hybrids evaluated in Maryland during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name	Relative Yield %					
			Avg. 5 sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Dekalb[2]	46	DKC62-09 VT3P	114.6	116.9	120.6	110.3	111.5	113.7
Garst[1,3]	**27**	**83R38**	**110.5**	**121.8**	**103.1**	**131.0**	**95.7**	**100.7**
Dekalb	45	DKC61-88 VT3P	109.0	121.4	117.1	97.6	98.9	109.8
Garst[3]	29	84U58	108.2	122.2	111.5	109.8	104.6	92.7
Mycogen[2]	78	2V707	108.0	115.9	101.9	111.0	109.1	102.3
Augusta[1,2]	**21**	**A0720CBLL**	**107.5**	**114.5**	**101.9**	**115.7**	**103.9**	**101.5**
Dekalb[2]	100	DKC 61-86	107.2	100.2	118.8	106.0	100.7	110.1
Dekalb[1,3]	**36**	**DKC63-87 VT2P**	**106.8**	**98.5**	**110.6**	**108.4**	**111.6**	**104.9**
Dyna-Gro[3]	4	D52VC91	105.1	101.2	109.1	111.3	98.4	105.7
Augusta	10	A5362VT3Pro	104.3	122.0	95.7	95.7	103.1	105.1
Dekalb	47	DKC62-97 VT3P	104.1	111.5	98.7	106.6	99.5	104.0
T.A. Seeds	56	TA647-22DP	104.1	117.6	97.7	88.8	106.8	109.4
FS InVISION[3]	83	FS6121VT3P	103.3	105.2	107.3	104.7	96.6	102.8
Augusta[3]	22	A0606GTCBLLA	103.1	100.5	91.8	103.1	113.7	106.6
Dekalb	44	DKC61-17 VT3P	103.0	111.8	102.7	89.3	111.6	99.5
Dekalb	98	DKC 61-22	102.9	121.2	98.9	100.1	99.9	94.6
Southern States	62	SS62-32GENVT3PRO	102.3	111.2	105.1	96.5	97.5	101.4
Augusta	23	A5658GTCBLL	102.2	95.7	97.2	115.0	106.3	96.6
Dyna-Gro	2	D49VP88	102.1	101.6	114.8	107.0	94.3	92.7
Augusta[3]	20	A5461GTCBLLA	102.1	80.4	100.8	109.2	107.6	112.5
FS InVISION[3]	84	FS6226VT3P	102.1	87.2	109.2	112.0	101.4	100.6
Southern States[3]	63	SS54-33GENVT3PRO	101.9	109.2	84.8	110.3	101.9	103.5
Hubner	74	H5609VT3P	101.7	114.4	90.6	89.4	112.2	101.8
Mycogen	81	2K757	101.7	99.8	107.5	103.9	100.7	96.6
NK	34	N70J	101.6	110.2	106.7	110.0	84.1	96.8
Hubner	73	H6644RCSS	100.4	101.8	95.5	109.9	96.7	98.0
T.A. Seeds	57	TA683-22DP	100.2	97.0	102.6	100.4	99.2	101.9
Mycogen	80	X12767HR	100.1	93.8	109.6	104.9	81.5	110.6
Channel	97	212-09STXRIB	99.8	106.8	92.4	99.1	96.6	104.2
Dyna-Gro	3	D51VP32	99.5	101.1	107.6	97.6	91.3	100.1
Dekalb	101	DKC 61-21 (SS)	99.5	122.5	104.4	92.6	89.1	88.8
T.A. Seeds	55	TA617-20	98.9	89.7	97.3	111.1	100.3	96.1
Pioneer[1]	**65**	**P1184AM-R**	**97.6**	**86.8**	**89.4**	**96.4**	**109.7**	**105.6**
NK	30	N68B	97.5	96.0	93.7	94.4	107.8	95.4
Augusta	9	A5262GT3000	97.0	87.0	90.5	95.6	113.9	98.2
Mycogen	82	2H727	96.8	95.5	108.3	92.3	87.0	100.8
Hubner	75	H5405VT3P	96.7	96.0	96.8	96.4	98.6	95.7
Dekalb	43	DKC60-62 VT3P	96.5	85.1	97.9	105.9	99.2	94.5
Mycogen	79	2P768	96.4	100.9	97.5	98.3	96.7	88.8
Augusta	15	A5360	96.2	86.5	95.0	89.0	109.1	101.4
T.A. Seeds	53	TA583-22DP	95.6	73.1	103.5	98.9	102.6	100.1
Partner's Brand	69	PB8287WXBt	94.2	100.1	85.1	108.9	85.4	91.6
NK	96	N69Z	93.9	84.2	90.5	90.7	111.5	92.7
Augusta	25	A5558VT3	93.6	108.4	79.4	79.8	98.6	101.8
T.A. Seeds	54	TA108-00	93.0	90.2	88.6	100.1	92.5	93.5
Augusta	24	A5560VT3Pro	92.2	90.5	98.0	72.6	103.3	96.8
RPM®	90	647AM1™	91.5	87.5	98.1	84.0	85.3	102.7
RPM®	92	609AM1™	84.5	65.5	88.3	75.8	102.5	90.5
RPM®	91	638AMX-R™	82.3	73.1	83.3	84.4	81.6	89.1
Trial Mean (bu/acre)				**102.2**	**163.7**	**108.5**	**168.8**	**213.7**

[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 25. Relative yield scores for full-season hybrids evaluated in Maryland during 2012.

Brand/Company Name	Test Entry No.	Hybrid Name	Relative Yield %					
			Average 5 Sites	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
FS InVISION[3]	86	FS6321VT3P	109.9	122.8	108.4	98.1	115.8	104.6
Augusta[2]	11	A5363VT3Pro	109.2	124.1	110.0	101.3	105.2	105.4
Hubner[3]	77	EX844VT3P	109.0	123.3	112.8	105.6	99.3	104.0
Dekalb[1,3]	**37**	**DKC65-19 VT3P**	**105.4**	**100.8**	**103.2**	**123.3**	**95.9**	**103.8**
Dyna-Gro[3]	6	D57VP51	104.9	93.0	110.8	105.5	111.0	104.2
Augusta	12	A5565VT3Pro	104.3	118.3	111.0	97.9	97.4	96.8
NK	31	N74G	103.7	119.1	106.0	94.4	91.7	107.4
Dekalb	49	DKC64-69 VT3P	103.4	107.5	106.0	99.4	105.1	98.9
NK	32	N78S	103.1	98.8	104.8	94.5	113.7	103.5
FS InVISION	85	FS6313VT3P	101.9	111.2	97.2	109.3	100.9	91.0
T.A. Seeds	60	TA785-22DP	100.3	93.0	110.3	91.7	100.7	105.6
Augusta	26	A6867GTCBLLA	100.1	102.4	103.1	97.2	96.7	101.1
T.A. Seeds	58	TA717-20	99.8	108.4	91.3	108.9	84.5	106.1
FS InVISION	87	FS6329VT3P	99.8	104.0	104.3	90.0	99.4	101.1
FS InVISION	88	FS6611GT3	98.7	87.6	96.7	102.3	98.9	107.8
RPM®	93	688AMX™	98.7	90.6	88.2	124.3	97.0	93.6
Dekalb	48	DKC63-25 VT2P	97.4	101.5	95.1	96.5	92.3	101.6
Dyna-Gro	5	D54VP81	96.3	88.7	102.6	89.6	101.1	99.3
Pioneer[1]	**66**	**P1498HR**	**96.0**	**81.9**	**101.5**	**105.9**	**98.2**	**92.7**
Hubner[1]	**76**	**H5709VT3P**	**95.8**	**72.3**	**99.8**	**101.3**	**105.5**	**100.0**
Augusta	7	A7664VT3	95.3	102.3	90.9	101.0	92.9	89.2
T.A. Seeds	59	TA753-22DP	92.8	86.6	107.3	84.9	96.6	88.7
Pioneer[1]	**67**	**P1395XR**	**92.0**	**86.5**	**76.4**	**100.9**	**101.9**	**94.5**
RPM®	94	743HXR™	91.7	97.5	72.2	79.0	103.8	106.1
Clarks Seeds	70	PB8447	89.5	78.6	89.8	91.9	94.8	92.5
Trial Mean (bu/acre)				**93.6**	**174.5**	**108.9**	**157.1**	**206.0**

[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.