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2018 Maryland Corn Hybrid Performance Tests http://www.psla.umd.edu/extension/md-crops

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Test Procedures

The University offers a fee-based, corn hybrid performance-testing program to seed corn companies. The results from these replicated trials provide agronomic performance information about the corn hybrids tested at five Maryland locations (Table 1) considered representative of the state's geography and weather conditions. Table 1 summarizes the agronomic and production information for each test site.

Hybrids tested during 2018 were entered by participating seed companies (Table 2) that were solicited for submission of hybrids. These hybrids represented those currently available for purchase to experimental lines still under evaluation. Select Pioneer and Dekalb brand hybrids were identified for use as checks in the test. The inclusion of the performance data for check hybrids that are proven performers in the Mid-Atlantic region allows comparisons of newer hybrids being tested with some that are familiar.

During 2018, 48 hybrids were tested using three maturity group tests: (1) early season (10 hybrids; Table 5); (2) mid-season (19 hybrids; Table 6); and (3) full-season (18 hybrids; Table 7. Each company designated the maturity group assignments for hybrids they submitted. Check hybrids were included in each of the four tests. All hybrids had genetic traits for insect protection and/or herbicide tolerance (Tables 5-7).

Each hybrid was assigned to its maturity group where it was replicated three times per location. Planting was done with a modified, four-row John Deere 1750 planter equipped with coulters and trashwheels for no-till planting. The modified planter units were manufactured by Clewell Precision Machine, Inc., Milton, PA. Each plot was four rows spaced 30 inches apart. Plot harvest length was 32 feet. Harvest stand and number of lodged plants were counted during the same week of harvest. The center two rows of each plot were harvested with a Massey Ferguson 8-XP research combine (Kincaid Equipment Manufacturing, Haven, KS). Grain yield, harvest moisture and test weight were measured for each plot. These data were collected with a HarvestMaster HM 800 Classic GrainGage system (Juniper Systems, Inc., Logan, UT). Data was recorded using Mirus software (Juniper Systems, Inc.) on a Panasonic Toughpad computer.

Test Results

The overall performance across the locations for the hybrids in each maturity group is found in Tables 8-10. Hybrid performance at individual locations can be found in Tables 11-25. The agronomic characteristics reported are yield in bushels/acre at 15% moisture content, harvest moisture content, per cent lodging, harvest population, and test weight (lb/bu) at 15% moisture content.

As seen in Table 3, growing season precipitation was between 16% (Wye) and 60% (Keedysville) above the long-term averages at the five locations. The 2018 growing season was extremely wet

especially with May, July, and September precipitation excesses. Even though May was wet, all five locations were planted without a planting delay. However, the wetter than normal soil conditions did cause some emergence issues for some plots at some locations. The biggest challenge faced by Maryland's growers during 2018 was managing nitrogen. Those who put all nitrogen out either as a preplant or at planting were faced with greater amounts of denitrification and/or leaching losses that resulted in nitrogen deficiency that was observed early in the growing season. Even those growers who used a split application of nitrogen were challenged by more N loss than is typically experienced.

Averaged over the five locations, yield for the early (10), mid (19), and full season (19) hybrids was 174 bu/acre, 201 bu/acre, and 195 bu/acre, respectively. Compared to 2017, these yields were -11%, -4%, and -8%, respectively, to those observed for the early, mid, and full season hybrids for that season. Average yield for the 48 hybrids tested across the five locations was 193 bu/acre or 18 bu/acre less than the record 211 bu/acre in 2014. Two 2018 locations had average yield of 210 bu/acre (Salisbury – 210.0; and Keedysville – 210.3;); but none were better than the 232 bu/acre best location yield attained at the Wye during 2016.

A least significant difference (LSD) value is reported for each test where statistically significant differences ($p \le 0.10$) for a variable were observed among hybrids. The mean separation 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 that existed at a test site. It is used as an indicator of the degree of precision for a test. In general, CV values below 10% for yield indicate that the precision for distinguishing yield differences was very good. You will see that 9-15 CV values for yield for 2018 were greater than 10%. This is attributed to wetter than normal planting conditions at some locations resulting in greater harvest population variability among hybrids, raccoon damage to early season hybrids at Clarksville and Wye, and excessive rainfall that caused some nitrogen deficiency to occur.

Relative Yield

The selection of a hybrid or hybrids based solely on performance at one location is not recommended. It is better to select a hybrid/s based upon 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 (Tables 26-28) are included. Relative yield is the ratio of the yield of a 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 consistently greater than 100 across all testing locations is considered to have excellent stability. During 2018, only four hybrids met this gold standard; Dekalb brand 57-99RIB (early); Dekalb brand DKC62-53RIB and Pioneer brand 1197AM (mid-season); and Dekalb brand DKC 65-95RIB. Eleven hybrids (two early season, five mid-season and four full season) had relative yield greater than 100 at 4-5 locations; a mark of good stability.

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Assistance with land preparation, planting, plot management, harvesting, and equipment maintenance/repair (as needed) was provided by research farms personnel (Table 1). Finally, I want to thank the research farm managers David Armentrout, John Draper, Ryan McDonald, and David Justice for their continued support.

<u>Additional Information</u>

The inclusion of hybrids in these tests is not an endorsement by the University of Maryland. Advertising statements about a company's hybrids 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 reproduced information.

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Table 1. Production management practices used and other pertinent information for the locations of the 2018 Maryland Corn Hybrid Test.

Location	Soil Type & Previous	Fertilizer	Herbicides & Insecticides	Tillage	Plant & Harvest Dates	Farm Staff
Wye R & E Center	Crop Nassowango silt	<u>01 May:</u>	05 May Pre-Emerge	No-till with aid of	<u>Plant</u>	John Draper
Queenstown, MD	loam	165 lb/a as 4-18-28	Accuron @ 2.5 qt/a	trash wheels on	01 May	John Draper
Queenstown, IVID	IOaiii	06 June:	Gramoxone SL @ 1 pt/a	planter	Of Way	Joseph Street
	Soybean	201 lb N/a as 30-0-0	Atrazine 4L @ 1 gt/a	planter	Harvest	Joseph Street
	Joybean	Total:	Scanner @ 2 pt/a		11 September (Early)	Thomas Eason
		208-30-46	Scarnier @ 2 pt/a		13 September (Mid)	Tiloillas Lasoii
		200 30 40	No insecticide		19 September (Full)	
Lower Eastern Shore	Mattapex silt loam	5 April:	21 April Pre-Plant	No-till into cover crop	Plant	David Armentrout
R&E Center-Poplar	iviattapex siit ioaiii	400 lb/a 4.7-4.7-39.4-6.9S-1.3Mg	Gramoxone SL @ 1 qt/A	with aid of trash	3 May	David Armentiout
Hill	Soybean followed by	3 May:	2-4D Ester @ 1 pt/A	wheels on planter	3 iviay	Jordan Miller
Quantico, MD	wheat cover crop	181.9 lb/a as 19-19-00-0.1B-0.01Zn	820 Surfactant @ 5 fl oz/A	wheels on planter	<u>Harvest</u>	Jordan Willer
Quantico, MD	wheat cover crop	12 June:	4 May Pre-Emerge		08 October	Fred Senkbeil
		140 lb N/a as 30% UAN	Harness Extra @ 2.5 qt/A		08 October	Fred Selikbeli
		Total:	14 June Post – Emerge			
		193-53-158-28S-5.3Mg-1.9B-0.25Zn	Round Up @ 28 fl oz/A			
		193-33-138-263-3.3Wg-1.9B-0.232H	Aatrex 90 @ 0.5 lb/A			
			No insecticide			
Lower Eastern Shore	Rosedale loamy sand	5 April:	18 April Pre-Plant	No-till into cover crop	Plant	David Armentrout
R&E Center-Salisbury	Nosedale loanly sailu	400 lb/a 4.7-4.7-39.4-6.9S-1.3Mg	Gramoxone SL @ 1 qt/A	with aid of trash	3 May	David Armentiout
Salisbury, MD	Soybean followed by	3 May:	2-4D Ester @ 1 pt/A	wheels on planter	3 iviay	James Lynch
Salisbuly, IVID	wheat cover crop	181.9 lb/a as 19-19-00-0.1B-0.01Zn	820 Surfactant @ 5 fl oz/A	wheels on planter	Harvest	Jaines Lynch
	wheat cover crop	23 May:	3 May Pre-Emerge		09 October	Vivian Calder
		98 lb N/a as 30% UAN	Harness Extra @ 2.5 qt/A		09 October	Viviali Caluei
		7 June:	1 June Post – Emerge			David Long
		98 lb N/a as 30% UAN	Round Up @ 28 fl oz/A			David Long
		Total:	Aatrex 90 @ 0.5 lb/A			Jordan Miller
		249-53-158-28S-5.3Mg-1.9B-0.25Zn	No insecticide			Jordan Willie
Central Maryland	Glenville silt loam	19 April	21 April Pre-plant	No-till with aid of	Plant	Mike Dwyer
R&E Center -	Gienvine site loani	225 lb/A 4-12-36-11S	Roundup Power Mas @ 24 oz/A	trash wheels on	8 May	Wilke Dwyer
Clarksville	Soybean	11 May	Sharpen @ 2 oz/A	planter	o Way	David Justice
Clarksville, MD	Soybean	130 N/a as 30% UAN	11 May Pre-Emerge	planter	Harvest	Davia Justice
Clarksville, IVID		Total:	Lexar EZ @ 3 qt/A		18 October	Michael Gray
		139-27-81-25S	Gramoxone S.L. 2.0 @ 1 pt/A		18 0010501	Wilchael Gray
		139-27-01-233	Surfactant @ 1 pt/A			
			No insecticide			
Western Maryland	Swanpond -	1 May:	4 May Pre-plant	No-till with aid of	Plant	Ryan McDonald
R&E Center	Funkstown silt loam	400 lb/a 10-10-20-3.75S	Accuron @ 2.5 qt/A	trash wheels on	10 May	Nyan McDonald
Keedysville, MD	i ankstown siit idalli	4 May	Acturon @ 2.3 qt/A Aatrex @ 1 qt/A	planter	10 Iviay	Douglas Price
Recaysville, IVID	Double Crop Soybean	130 lb N/a as 30% UAN	Gramoxone Inteon @ 1 qt/A	planter	Harvest	Douglas i rice
	Double Crop Soybean	Total:	No post-emerge herbicide		16 October	David Wyand
	ĺ	10tui.	140 post cilicige licibicide	1	10 000000	David vv yallu

Table 2. Brands and companies represented in the 2018 Maryland corn hybrid tests.

Brand	Address
Augusta	Augusta Seed, P.O. Box 899, Verona, VA 24482
	www.augustaseed.com
DeKalb	Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63167
	www.aganytime.com/dekalb/
Doebler's	Doebler's PA Hybrids, Inc., 1000 Commerce Park Dr., Williamsport, PA 17701
	www.doeblers.com
Dyna-Gro	Crop Production Services/Dyna-Gro, 1140 Sweet Road, East Aurora, NY 14052
-	www.dynagroseed.com
Hubner Seed	Hubner Seed Company, 306 North Main Street, Monticello, IN 47960
	www.hubnerseed.com
Local	Local Seed Company, 802 Rozelle Street, Memphis, TN 38104
	www.localseed.com/
NK	Syngenta Seeds, 4013 Fairmount Pike, Signal Mountain, TN 37377
IVIX	www.syngenta-us.com
	www.syngenta-us.com
Pioneer	Dupont- Pioneer, PO Box 1000, Johnston, IA 50131
	www.pioneer.com

Table 3. Precipitation received at each location where the Maryland corn hybrid tests were conducted during 2018.

Month	Wye	Poplar Hill	Salisbury ¹	Keedysville	Clarksville	
	Inches					
April	2.89	2.64	2.93	3.43	3.42	
May	7.56	12.46	12.6 (.3)	6.28	6.65	
June	3.28	2.67	5.56 (1.1)	6.55	5.82	
July	8.20	4.58	4.9 (2.7)	4.58	6.30	
August	2.27	3.35	3.73	6.77	5.09	
September	7.18	6.69	8.73	6.34	8.29	
2018 Total (6 month)	31.38	32.39	38.45 (4.1)	33.95	35.57	
Long Term Average ²	27.08	23.55	25.39	21.25	23.95	

¹The number in parentheses following the precipitation total for each month at Salisbury indicates the amount of supplemental irrigation used.

²Long term average precipitation is for the following number of years at Wye (19), Poplar Hill (18), Salisbury (29), Clarksville (9), and Keedysville (39).

Table 4. Glossary of abbreviations for hybrid genetic traits and description of seed treatments used in Tables 5, 6, 7, and 8.

Abbreviation	Description
Acceleron 250	Seed treatment for nematode and insect protection, and soil/seed borne
	fungal pathogens.
AcreMax or AM	Refers to a refuge in the bag hybrid.
AcreMax Above	Refuge in the bag plus above ground insect protection.
AcreMax Xtreme	Contains above and below ground insect protection, refuge in the bag, plus
	glyphosate and glufosinate herbicide tolerance.
Agrisure 3010	Protection against European corn borer plus glyphosate and glufosinate herbicide tolerance.
Agrisure Viptera 3110	Protection against European corn borer; broad Lepodopteran plus glyphosate and glufosinate herbicide tolerance
Avicta 500 or A500	A nematicide seed treatment.
Avicta 500 + Vibrance	A nematicide seed treatment plus fungicide protection.
Avicta Complete Corn	A nematicide/insecticide/fungicide seed treatment combination.
ВТ	Contains a <i>Bacillus thuringiensis</i> (Bt) event for protection against European corn borer.
Cruiser 250 and 500	A neonicotinoid based insecticide seed treatment.
Cruiser 250 + Lumivia	A neonicotinoid based insecticide seed treatment plus another seed treatment
-	providing broad-spectrum insect protection.
Cruiser 250 + Raxil	A neonicotinoid based insecticide seed treatment plus fungicide that provides broad spectrum protection against seed/soil borne fungal pathogens.
CruiserMaxx 250	A neonicotinoid based insecticide seed treatment plus seed applied Maxim Quatro
	fungicide.
GENSSRIB	Refers to hybrids that have eight traits combined or 'stacked' together – 6 for insect resistance (Bt) and 2 for herbicide (Roundup and Liberty) tolerance. Includes non-Bt seed blended in the bag creating refuge in the bag.
GENDGVT2PRIB	Provides protection against aboveground Lepidopteran insects, has tolerance to glyphosate, is considered a drought guard hybrid, and has non-Bt seed blended in the bag creating refuge in the bag.
GENVT2PRIB	Provides protection against aboveground Lepidopteran insects, has tolerance to glyphosate, and has non-Bt seed blended in the bag creating refuge in the bag.
GT	Refers to glyphosate (Roundup) herbicide tolerance.
GT3010	Stacked trait hybrid with corn borer control plus glyphosate tolerance.
GT3111	Stacked trait hybrid with broad lepidopteran, corn borer, and corn rootworm control plus glyphosate tolerance.
GT3220	Stacked trait hybrid with broad lepidopteran and corn borer control plus glyphosate tolerance.
HX1	Contains a <i>Bacillus thuringiensis</i> (Bt) event for protection against European corn borer.
LL	Refers to glufosinate (Liberty) herbicide tolerance.
Poncho 250, 500 or 1250	An insecticide seed treatment with the number referring to the concentration of insecticide used.
RIB	Has non-Bt seed blended in the bag creating refuge in the bag
RR	Has glyphosate herbicide tolerance.
RR2	Designates the second generation event for glyphosate herbicide tolerance.
RW	Designates protection against corn rootworm.
SSX, STX	Refers to a SmartStax hybrid.
SSXRA	Refers to a SmartStax hybrid that has non-Bt seed blended in the bag creating refuge in the bag.
Votivo 500 and Votivo 1250	A nematicide seed treatment.
VT2P, VT2PRO	Contains RR2 gene and YieldGard corn stalk borer gene
VT2PDG RIB; DGVT2PRIB	Contains RR2 gene, YieldGard corn stalk borer gene, Drought Gard gene, and non-Bt seed blended in the bag for refuge in the bag.
YGCB	Hybrid with yield guard corn borer protection.

Table 5. Relative maturity, genetic traits, and seed treatments for early-season hybrids tested in Maryland during 2018.

Brand/Company	Hybrid Name	Relative	Genetic Traits ¹	Seed Treatment
Name		Maturity		
Augusta	A2856GT3220	106	GT3220	Cruiser 250
Dekalb	DKC 55-21RIB	105	GENVT2PRIB	Acceleron 250
Dekalb	DKC 55-53RIB	105	GENSSRIB	Acceleron 250
Dekalb	DKC 55-85RIB	105	GENVT2PRIB	Acceleron 250
Dekalb	DKC 57-99RIB	107	GENDGVT2PRIB	Acceleron 250
Doebler's	4417AMXT	104	HX1/YGCB/LL/RR2	Cruiser 250 + Raxil
Doebler's	4919AM	109	HX1/YGCB/LL/RR2	Cruiser 250 + Lumivia
Hubner Seed	H04G287 DGVT2PRIB	104	DGVT2PRIB	Acceleron Poncho/Votivo 500
Local Seed	LC0488SSX	104	BT,RW,RR,LL	Cruiser Max 250
Pioneer	0339AM	103	YGCB, HX1, LL, RR2	Poncho/Votivo 1250 Raxil

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

Table 6. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in Maryland during 2018.

Brand/	Hybrid Name	Relative	Genetic Traits ¹	Seed Treatment
Company		Maturity		
Name				
Augusta	A4463VT2PRO	112	VT2P	Avicta 500 + Vibrance
Augusta	A4858GT3010	108	GT3010	Cruiser 250
Augusta	A4860GT3220	110	GT3220	Cruiser 250
Dekalb	DKC 60-88RIB	110	GENVT2PRIB	Acceleron 250
Dekalb	DKC 61-98RIB	111	GENVT2PRIB	Acceleron 250
Dekalb	DKC 62-20RIB	112	GENVT2PRIB	Acceleron 250
Dekalb	DKC 62-53RIB	112	GENVT2PRIB	Acceleron 250
Doebler's	4919AM	109	HX1/YGCB/LL/RR2	Cruiser 250 + Lumivia
Doebler's	5018AM	110	HX1/YGCB/LL/RR2	Cruiser 250 + Lumivia
Dyna-Gro	D49VC70	109	VT2P	Acceleron 500/Votivo
Dyna-Gro	D50VC30	110	VT2P	Acceleron 500/Votivo
Dyna-Gro	D52VC63	112	VT2P	Acceleron 500/Votivo
Hubner Seed	H08G394 DGVT2PRIB	108	DGVT2P	Acceleron Poncho/Votivo 500
Hubner Seed	H4563RC2P VT2PRIB	111	VT2P	Acceleron Poncho/Votivo 500
Local Seed	LC0877VT2P	108	VT2P	Cruiser Max 250
Pioneer	0843AM	108	YGCB, HX1, LL, RR2	Poncho/Votivo 1250 Raxil
Pioneer	1197AM	111	YGCB, HX1, LL, RR2	Poncho/Votivo 1250 Raxil
Syngenta	NK0886-3010	108	Agrisure 3010	Avicta Complete 500 + Vibrance
Syngenta	NK0968-3110	109	Agrisure Viptera 3110	Avicta Complete 500 + Vibrance

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

²Hybrids in **bold print** are check hybrids.

²Hybrids in **bold print** are check hybrids.

Table 7. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in Maryland during 2018.

Brand/	Hybrid Name	Relative	Genetic Traits ¹	Seed Treatment
Company		Maturity		
Name				
Augusta	A1165VT2 PRORIB	115	VT2P	QV1250
Augusta	A1166VT2PRORIB	116	VT2P	QV1250
Augusta	A4465GT3111	115	GT3111	Avicta Complete 500
Dekalb	DKC 64-35RIB	114	GENVT2PRIB	Acceleron 250
Dekalb	DKC 65-20RIB	115	GENDGVT2PRIB	Acceleron 250
Dekalb	DKC 65-95RIB	115	GENVT2PRIB	Acceleron 250
Dekalb	DKC 66-75RIB	116	GENVT2PRIB	Acceleron 250
Dekalb	DKC 67-44RIB	117	GENVT2PRIB	Acceleron 250
Doebler's	5018AM	110	HX1/YGCB/LL/RR2	Cruiser 250 + Lumivia
Doebler's	5319AM	113	HX1/YGCB/LL/RR2	Cruiser 250 + Lumivia
Doebler's	5518AM	115	HX1/YGCB/LL/RR2	Cruiser 250 + Lumivia
Dyna-Gro	D55VC45	115	VT2P	Acceleron 500/Votivo
Hubner Seed	H4663RC2P VT2PRIB	113	VT2P	Acceleron Poncho/Votivo 500
Hubner Seed	H4890RC2P VT2PRIB	117	VT2P	Acceleron Poncho/Votivo 500
Local Seed	LC1577VT2P	115	VT2P	Cruiser Max 250
Pioneer	1442AM	114	YGCB, HX1, LL, RR2	Poncho/Votivo 1250 Raxil
Syngenta	NK1354-3110	113	Agrisure 3110	Avicta Complete 500 + Vibrance
Syngenta	NK1573-3110	115	Agrisure 3110	Avicta Complete 500 + Vibrance

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

²Hybrids in **bold print** are check hybrids.

Table 8. Average performance of early maturity hybrids evaluated at five Maryland locations during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight
						(lb/bu) ²
Augusta	A2856GT3220	155.4	89.3	16.9	4.4	55.7
Dekalb	DKC 55-21RIB	159.8	91.8	17.0	2.0	56.2
Dekalb	DKC 55-53RIB	178.5	102.6	16.8	0.8	56.1
<mark>Dekalb</mark>	DKC 55-85RIB	196.6	113.0	17.0	<mark>6.2</mark>	<mark>55.2</mark>
Dekalb	DKC 57-99RIB	184.7*	106.1	16.7	3.1	56.0
Doebler's	4417AMXT	162.8	93.5	17.0	7.4	57.3
Doebler's	4919AM	195.7*	112.5	16.7	0.4	56.9
Hubner Seed	H04G287 DGVT2PRIB	182.2*	104.7	17.3	0.7	57.0
Local Seed	LC0488SSX	140.4	80.7	16.8	2.6	56.0
Pioneer	0339AM	184.3*	105.9	17.6	0.2	56.2
Trial Mean (5 locations)		174.0	100	17	2.8	56.3
Probab	Probability > F					
LSD _{0.10}		14.5				

¹See Table 6 for trait designations for early-season hybrids.

²Yields and test weights 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.

⁴Hybrids in **bold** are checks.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (p=0.10) compared to the top-yielding hybrid.

Table 9. Average performance of mid-season maturity hybrids evaluated at five Maryland locations during 2018.

Brand/	Hybrid	Yield	Relative	Moisture	Lodging ³	Test
Company	Name ¹	(bu/A) ²	Yield	%	%	Weight
Name						(lb/bu) ²
Syngenta	NK0968-3110	194.5	96.6	17.5	0.7	55.7
Syngenta	NK0886-3010	190.9	94.8	17.6	1.1	58.3
Dekalb	DKC 60-88RIB	206.3*	102.5	17.2	1.4	58.9
Dekalb	DKC 61-98RIB	195.6	97.2	17.5	1.1	58.4
Dekalb	DKC 62-20RIB	204.0	101.4	17.3	0.5	58.1
Dekalb	DKC 62-53RIB	219.2*	108.9	<mark>17.6</mark>	<mark>0.2</mark>	<mark>57.8</mark>
Augusta	A4858GT3010	193.6	96.2	17.4	1.5	58.5
Augusta	A4860GT3220	187.1	92.9	17.8	1.4	56.9
Dyna-Gro	D49VC70	188.8	93.8	17.5	0.9	58.6
Dyna-Gro	D50VC30	197.0	97.8	17.7	1.9	58.7
Dyna-Gro	D52VC63	205.6	102.1	18.3	0.7	58.2
Doebler's	4919AM	197.3	98.0	16.8	0.5	57.1
Doebler's	5018AM	209.5*	104.1	16.4	2.4	56.0
Augusta	A4463VT2PRO	211.8*	105.2	17.5	0.4	58.5
Local Seed	LC0877VT2P	199.6	99.2	17.0	0.4	56.4
Hubner Seed	H08G394 DGVT2PRIB	197.2	97.9	16.8	1.8	57.7
Hubner Seed	H4563RC2P VT2PRIB	210.5*	104.5	18.3	0.4	59.1
Pioneer	0843AM	203.4	101.0	17.0	0.3	57.9
Pioneer 1197AM		213.8*	106.2	17.3	1.0	58.2
Trial M	lean (5 locations)	201.3	100	17.4	1	57.9
Pi	robability > F	<0.0001				
_	LSD _{0.10}	9.8				

¹See Table 7 for hybrid trait designations for mid-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are checks.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (p=0.10) compared to the top-yielding hybrid.

Table 10. Performance of full season hybrids evaluated at five Maryland locations during 2018.

Brand/	Hybrid ¹	Yield	Relative	Moisture	Lodging ³	Test
Company		(bu/a) ²	Yield	%	%	Weight
						(lb/bu)²
Augusta	A1165VT2 PRORIB	191.8	98.5	17.4	1.5	58.5
Augusta	A1166VT2PRORIB	193.1*	99.2	17.5	0.9	58.6
Augusta	A4465GT3111	186.8	96.0	17.8	1.4	56.9
Dekalb	DKC 64-35RIB	190.3	97.8	17.6	1.1	58.3
Dekalb	DKC 65-20RIB	183.0	94.1	17.2	1.4	58.9
Dekalb	DKC 65-95RIB	206.7*	106.2	17.5	1.1	58.4
Dekalb	DKC 66-75RIB	199.3*	102.4	17.3	0.5	58.1
Dekalb	DKC 67-44RIB	202.6*	104.1	17.6	0.2	57.8
Doebler's	5018AM	207.4*	106.6	<mark>18.3</mark>	<mark>0.7</mark>	<mark>58.2</mark>
Doebler's	5319AM	192.2	98.8	16.4	2.4	56.0
Doebler's	5518AM	192.2	98.8	16.8	0.5	57.1
Dyna-Gro	D55VC45	197.7*	101.6	17.7	1.9	58.7
Hubner Seed	H4663RC2P VT2PRIB	198.8*	102.2	17.0	0.4	56.4
Hubner Seed	H4890RC2P VT2PRIB	202.6*	104.1	18.3	0.4	59.1
Local Seed	LC1577VT2P	189.6	97.4	17.5	0.4	58.5
Pioneer	1442AM	183.2	94.1	17.0	0.3	57.9
Syngenta	NK1354-3110	178.9	91.9	17.3	1.0	58.2
Syngenta	NK1573-3110	195.6*	100.5	17.5	0.7	55.7
	Trial Mean	194.4	100	17.4	1	57.9
Pi	robability > F	0.053				
	LSD _{0.10}	14.4				

¹See Table 8 for trait designations for full season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (p=0.10) compared to the top-yielding hybrid.

Table 11. Performance of early maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight	(plants/A)
						(lb/bu)²	
Augusta	A2856GT3220	154.1*	95.6	20.1	0.9	55.8	22641
Dekalb	DKC 55-21RIB	171.6*	106.4	20.9	0.0	56.8	23232
Dekalb	DKC 55-53RIB	181.4*	112.5	22.1	0.0	54.2	24610
Dekalb	DKC 55-85RIB	182.0*	112.9	22.5	0.0	<mark>53.2</mark>	<mark>23626</mark>
Dekalb	DKC 57-99RIB	165.4*	102.6	21.3	0.0	56.6	24216
Doebler's	4417AMXT	180.7*	112.1	20.3	0.0	55.7	23429
Doebler's	4919AM	177.5*	110.1	20.1	0.9	56.4	22838
Hubner Seed	H04G287 DGVT2PRIB	142.9	88.7	21.1	1.9	57.3	21854
Local Seed	LC0488SSX	101.7	63.1	21.3	1.9	56.2	22641
Pioneer	0339AM	154.6*	95.9	20.9	0.0	54.7	24610
	Mean	161.2	100	21.1	0.57	55.7	23370
Pro	bability > F	0.0203		0.0023	0.73	0.0005	0.65
	LSD _{0.10}	34.8		0.28	2.4	1.3	2568
	CV%	22.9		4.4	276	2.6	7.8

¹See Table 5 for trait designations for early-season hybrids.

²Yields and test weights 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.

⁴Hybrids (**bold**) are included as checks.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.10) compared to the top-yielding hybrid at this location.

Table 12. Performance of mid-season maturity hybrids evaluated at Wye R&E Center, Queenstown, MD during 2018.

Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
Augusta	A4463VT2PRO	201.1	105.3	23.1	0.0	57.1	24413
Augusta	A4858GT3010	176.8	92.6	22.0	0.5	58.8	22838
Augusta	A4860GT3220	171.6	89.9	23.1	2.8	56.1	24020
Dekalb	DKC 60-88RIB	194.6	101.9	22.8	2.5	58.9	26776
Dekalb	DKC 61-98RIB	180.2	94.4	23.7	0.4	57.7	24807
Dekalb	DKC 62-20RIB	204.9	107.4	22.5	0.0	58.4	25201
Dekalb	DKC 62-53RIB	237.8*	124.6	25.3	0.5	57.0	28676
Doebler's	4919AM	177.1	92.8	20.5	1.2	57.1	23035
Doebler's	5018AM	212.3*	111.2	19.9	0.0	52.8	24807
Dyna-Gro	D49VC70	154.3	80.8	23.6	0.5	57.2	23823
Dyna-Gro	D50VC30	181.4	95.0	23.6	5.1	58.6	25791
Dyna-Gro	D52VC63	199.9	104.7	25.1	1.7	57.8	27563
Hubner Seed	H08G394 DGVT2PRIB	171.2	89.7	22.6	4.3	57.8	24837
Hubner Seed	H4563RC2P VT2PRIB	211.1*	110.6	24.9	0.0	58.0	25988
Local Seed	LC0877VT2P	186.9	97.9	21.7	0.0	56.7	25201
Pioneer	0843AM	202.9	106.3	20.6	1.0	56.5	29335
Pioneer	1197AM	205.8	107.8	22.7	0.8	58.4	24413
Syngenta	NK0886-3010	160.5	84.1	22.4	3.7	58.8	21498
Syngenta	NK0968-3110	167.1	87.5	21.8	1.7	54.3	25201
Tı	rial Mean	190.9	100	22.6	1.3	57.3	25283
Pro	bability > F	0.0012		<0.0001	0.25	0.0003	0.0001
	LSD _{0.10}	27.1		1.4	3.2	2	2500
	CV%	14.8		7.4	194	3.4	10.1

¹See Table 6 for hybrid trait designations for mid-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are checks.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.10) compared to the top-yielding hybrid at this location.

Table 13. Performance of full season hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2018.

Brand/	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Company Name	Name ¹	(bu/a) ²	Yield	%	%	Weight (lb/bu)²	(plants/A)
Augusta	A1165VT2 PRORIB	186.5*	100.8	24.1	2.2	58.2	25595
Augusta	A1166VT2PRORIB	188.0*	101.6	22.2	1.4	56.4	26382
Augusta	A4465GT3111	184.0*	99.4	22.4	0.9	57.3	23429
Dekalb	DKC 64-35RIB	182.2*	98.4	22.4	7.1	58.3	24020
Dekalb	DKC 65-20RIB	131.2	70.9	23.6	18.0	58.7	22641
Dekalb	DKC 65-95RIB	208.1*	112.4	23.3	2.4	<mark>59.0</mark>	24807
Dekalb	DKC 66-75RIB	168.9	91.2	23.0	3.0	57.2	24807
Dekalb	DKC 67-44RIB	204.1*	110.3	22.2	1.1	58.0	25594
Doebler's	5018AM	199.7*	107.9	22.0	0.4	57.4	25201
Doebler's	5319AM	191.3*	103.3	20.3	0.4	59.0	25201
Doebler's	5518AM	169.8	91.7	20.6	0.0	57.1	25398
Dyna-Gro	D55VC45	199.2*	107.6	21.8	1.2	57.9	26272
Hubner Seed	H4663RC2P VT2PRIB	203.7*	110.0	21.7	1.1	57.3	27366
Hubner Seed	H4890RC2P VT2PRIB	190.1*	102.7	24.0	0.8	59.4	24807
Local Seed	LC1577VT2P	166.2	89.8	21.9	2.7	58.8	21263
Pioneer	1442AM	185.8*	100.4	21.4	0.5	57.9	22444
Syngenta	NK1354-3110	143.0	77.3	21.8	14.5	55.9	23822
Syngenta	NK1573-3110	188.3*	101.7	22.3	3.4	57.2	23626
Т	rial Mean	185.1	100	22.2	2.6	57.9	24635
Pro	bability > F	0.126		<0.0001	0.059	<0.0001	0.19
·	LSD _{0.10}	33.6		0.9	7.2	0.8	2882
	CV%	15.2		5.2	221	4.1	9.7

¹See Table 7 for trait designations for full season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.10) compared to the top-yielding hybrid at this location.

Table 14. Performance of early season hybrids at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
	Name ¹	(bu/A) ²	Yield	%	%	Weight	(plants/A)
						(lb/bu) ²	
Augusta	A2856GT3220	153.9	90.3	17.0	1.7	58.2	22222
Dekalb	DKC 55-21RIB	144.6	84.9	15.6	1.3	57.8	19916
Dekalb	DKC 55-53RIB	155.5	91.2	15.7	0.6	57.6	20408
<mark>Dekalb</mark>	DKC 55-85RIB	208.4*	122.3	<mark>15.6</mark>	0.0	<mark>56.4</mark>	23113
Dekalb	DKC 57-99RIB	196.4*	115.3	15.7	0.0	57.5	25194
Doebler's	4417AMXT	156.1	91.6	15.7	2.7	57.9	19916
Doebler's	4919AM	183.4*	107.6	15.9	0.0	58.1	21951
Hubner Seed	H04G287 DGVT2PRIB	179.8*	105.5	15.3	0.2	58.3	20225
Local Seed	LC0488SSX	146.0	85.7	15.5	0.0	57.9	23174
Pioneer	0339AM	177.3*	104.0	15.9	0.0	56.7	21515
M	ean	170.4	100	15.9	0.5	57.7	22003
Probal	oility > F	0.142		0.9	0.41	0.39	0.71
LS	D _{0.10}	37.3		2.1	2.2	1.5	5760
C	V%	13.2		5	203	1.2	10.8

¹See Table 5 for trait designations for early-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.10) compared to the top-yielding hybrid at this location.

Table 15. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight (lb/bu) ²	(plants/A)
Augusta	A4463VT2PRO	187.2*	101.8	16.3	1.4	59.2	24154
Augusta	A4858GT3010	176.2	95.8	16.2	0.4	58.7	22494
Augusta	A4860GT3220	159.3	86.6	16.8	0.9	57.9	19738
Dekalb	DKC 60-88RIB	201.6*	109.6	16.1	0.0	59.1	24863
Dekalb	DKC 61-98RIB	189.0*	102.8	16.3	0.0	59.1	21600
Dekalb	DKC 62-20RIB	192.9*	104.9	16.4	0.8	59.0	23785
Dekalb	DKC 62-53RIB	195.7*	106.4	16.4	0.0	58.0	22349
Doebler's	4919AM	188.6*	102.5	15.9	0.0	58.5	21388
Doebler's	5018AM	188.4*	102.5	15.9	0.0	58.5	21814
Dyna-Gro	D49VC70	159.6	86.8	16.4	0.0	59.1	20891
Dyna-Gro	D50VC30	170.8	92.9	16.8	0.0	60.2	21757
Dyna-Gro	D52VC63	190.9*	103.8	17.1	0.4	58.6	23785
Hubner Seed	H08G394 DGVT2PRIB	173.7	94.5	16.1	0.0	58.7	22990
Hubner Seed	H4563RC2P VT2PRIB	178.4	97.0	16.4	0.0	59.9	22863
Local Seed	LC0877VT2P	190.2*	103.4	16.0	0.0	57.4	23970
Pioneer	0843AM	180.9	98.4	16.2	0.0	59.1	19913
Pioneer	1197AM	205.4*	111.7	16.0	0.0	<mark>59.2</mark>	21388
Syngenta	NK0886-3010	191.8*	104.3	16.4	1.5	59.4	23970
Syngenta	NK0968-3110	173.8	94.5	16.5	0.0	56.5	22310
Tr	rial Mean	183.9	100	16.3	0.3	58.7	22422
Pro	bability > F	0.0044		0.0009	0.5	<0.0001	0.098
	LSD _{0.10}	18.2		0.42	1.2	0.86	2684
	CV%	9		2.4	303	1.7	9.5

¹See Table 6 for trait designations for mid-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F \leq 0.10) compared to the top-yielding hybrid at this location.

Table 16. Performance of full season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2018.

Brand/	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Company Name	Name ¹	(bu/a)²	Yield	%	%	Weight (lb/bu)²	(plants/A)
Augusta	A1165VT2 PRORIB	176.7	102.9	17.5	0.0	60.2	21249
Augusta	A1166VT2PRORIB	170.9	99.5	16.7	0.0	57.3	21941
Augusta	A4465GT3111	174.3	101.5	18.0	0.4	58.1	20717
Dekalb	DKC 64-35RIB	166.4	96.9	16.5	0.0	60.3	18370
Dekalb	DKC 65-20RIB	173.7	101.1	18.0	0.0	61.0	19544
Dekalb	DKC 65-95RIB	174.7	101.7	17.5	0.0	60.0	22126
Dekalb	DKC 66-75RIB	165.3	96.2	17.6	0.4	58.7	22706
Dekalb	DKC 67-44RIB	159.2	92.7	17.3	0.0	59.9	20098
Doebler's	5018AM	185.1	107.7	16.1	0.0	58.4	22232
Doebler's	5319AM	181.8	105.8	16.3	0.0	60.2	22494
Doebler's	5518AM	176.7	102.9	15.9	0.8	58.5	21757
Dyna-Gro	D55VC45	157.3	91.6	16.6	0.0	59.4	19795
Hubner Seed	H4663RC2P VT2PRIB	178.2	103.7	16.4	1.3	58.0	20835
Hubner Seed	H4890RC2P VT2PRIB	181.5	105.6	17.9	0.4	60.7	19729
Local Seed	LC1577VT2P	168.8	98.3	16.6	0.0	59.0	19454
Pioneer	1442AM	159.5	92.8	16.9	0.0	60.0	19729
Syngenta	NK1354-3110	161.8	94.2	17.0	3.9	57.6	19726
Syngenta	NK1573-3110	190.1	110.7	<mark>17.9</mark>	0.0	<mark>58.4</mark>	20850
Т	rial Mean	171.8	100	17	0.38	59.2	20497
Pro	bability > F	0.9 (NS)		<0.0001	0.53	<0.0001	0.09
	LSD _{0.10}	30		0.58	2.25	0.78	3072
	CV%	11.8		4.3	420	2	12.5

¹See Table 7 for trait designations for full season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.10) compared to the top-yielding hybrid at this location.

Table 17. Performance of early-season hybrids evaluated at Lower Eastern Shore Research and Education Center, Salisbury Facility, Salisbury, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight	(plants/A)
						(lb/bu)²	
Augusta	A2856GT3220	164.9	84.0	15.2	0.6	54.0	31270
Dekalb	DKC 55-21RIB	192.7	98.1	15.4	0.0	55.1	32573
Dekalb	DKC 55-53RIB	226.7*	115.4	15.4	1.4	55.6	32414
<mark>Dekalb</mark>	DKC 55-85RIB	230.4*	117.3	<mark>15.6</mark>	0.0	<mark>55.8</mark>	32267
Dekalb	DKC 57-99RIB	197.5*	100.6	15.1	0.3	54.1	30496
Doebler's	4417AMXT	196.2*	99.9	15.6	0.9	57.2	32082
Doebler's	4919AM	181.7	92.5	15.6	0.3	57.3	31183
Hubner Seed	H04G287 DGVT2PRIB	201.5*	102.6	15.2	0.3	56.0	31073
Local Seed	LC0488SSX	174.7	89.0	15.2	0.0	54.3	29827
Pioneer	0339AM	197.5*	100.5	15.2	0.7	56.2	28026
M	ean	196.4	100	15.3	0.45	55.6	31121
Probal	oility > F	0.098		0.0063	0.050	0.004	0.051
LS	D _{0.10}	35.5		0.26	0.7	1.4	2207
C	V%	15.3		1.6	134	2.5	6

¹See Table 5 for trait designations for early-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.10) compared to the top-yielding hybrid at this location.

Table 18. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury Facility, Salisbury, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight (lb/bu) ²	(plants/A)
Augusta	A4463VT2PRO	245.0*	114.2	15.5	0.6	58.5	31504
Augusta	A4858GT3010	205.9	96.0	16.0	0.6	58.0	32772
Augusta	A4860GT3220	203.9	95.0	15.7	0.0	56.7	31244
Dekalb	DKC 60-88RIB	215.4	100.4	15.4	0.0	57.7	32045
Dekalb	DKC 61-98RIB	190.7	88.9	15.5	0.3	58.2	33938
Dekalb	DKC 62-20RIB	215.7	100.5	15.8	0.6	58.4	30792
Dekalb	DKC 62-53RIB	223.1	104.0	15.8	0.0	57.6	32082
Doebler's	4919AM	213.5	99.5	15.5	0.0	57.5	31327
Doebler's	5018AM	216.0	100.7	15.4	0.3	55.9	32977
Dyna-Gro	D49VC70	209.5	97.6	15.8	0.0	57.5	32560
Dyna-Gro	D50VC30	210.0	97.9	15.6	0.0	57.5	33139
Dyna-Gro	D52VC63	219.7	102.4	16.1	0.5	58.2	32445
Hubner Seed	H08G394 DGVT2PRIB	227.5*	106.0	15.4	0.3	56.6	34123
Hubner Seed	H4563RC2P VT2PRIB	216.3	100.8	16.2	0.6	58.8	33533
Local Seed	LC0877VT2P	208.6	97.2	15.6	0.0	55.8	32451
Pioneer	0843AM	209.9	97.8	15.7	0.3	58.3	33692
Pioneer	1197AM	225.9*	105.2	15.9	0.3	58.4	32635
Syngenta	NK0886-3010	194.1	90.4	16.2	0.3	57.8	31442
Syngenta	NK0968-3110	226.2*	105.4	15.5	0.6	55.8	32511
Tr	ial Mean	214.6	100	15.7	0.28	57.5	32485
Pro	bability > F	0.038		<0.0001	0.82	<0.0001	0.67
	LSD _{0.10}	20.9		0.26	0.7	0.8	2509
	CV%	8.1		2.1	184	1.8	5.4

¹See Table 6 for trait designations for mid-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids included.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) compared to the top-yielding hybrid at this location.

Table 19. Performance of full season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury Facility, Salisbury, MD during 2018.

Brand/	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Company	Name ¹	(bu/a)²	Yield	%	%	Weight	(plants/A)
Name						(lb/bu)²	
Augusta	A1165VT2 PRORIB	208.3	98.1	16.5	2.1	59.6	30913
Augusta	A1166VT2PRORIB	210.9	99.3	16.1	0.0	57.3	32808
Augusta	A4465GT3111	204.2	96.1	18.6	0.0	58.7	31996
Dekalb	DKC 64-35RIB	207.7	97.8	16.1	0.9	60.1	32777
Dekalb	DKC 65-20RIB	225.5	106.2	17.3	1.5	62.3	32409
Dekalb	DKC 65-95RIB	235.5	110.9	18.5	0.0	62.7	34067
Dekalb	DKC 66-75RIB	232.5	109.5	18.2	0.3	61.0	34110
Dekalb	DKC 67-44RIB	225.3	106.1	16.5	0.0	60.7	33349
Doebler's	5018AM	224.0	105.5	15.6	0.0	56.4	32574
Doebler's	5319AM	191.6	90.2	20.6	0.0	63.5	31837
Doebler's	5518AM	217.5	102.4	18.1	0.0	59.1	33539
Dyna-Gro	D55VC45	211.9	99.8	20.5	0.0	63.3	34060
Hubner Seed	H4663RC2P VT2PRIB	212.5	100.0	17.8	0.0	59.5	33907
Hubner Seed	H4890RC2P VT2PRIB	214.7	101.1	21.2	0.3	64.5	33176
Local Seed	LC1577VT2P	210.5	99.1	16.2	0.0	60.2	27542
Pioneer	1442AM	182.7	86.0	19.7	0.0	62.1	32635
Syngenta	NK1354-3110	202.0	95.1	18.1	0.0	58.3	32267
Syngenta	NK1573-3110	206.5	97.2	20.8	0.0	60.8	32795
Т	rial Mean	212.4	100	18.1	0.3	60.6	32598
Pro	bability > F	0.63					
		(NS)		0.22	0.02	0.002	<0.0001
	LSD _{0.10}	34.5		3.7	1	2.9	1646
	CV%	11.9		15.8	293	4.6	5.5

¹See Table 7 for trait designations for full season hybrids.

²Yields are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.10) compared to the top-yielding hybrid at this location.

Table 20. Performance of early season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
	Name ¹	(bu/A) ²	Yield	%	%	Weight	(plants/A)
						(lb/bu) ²	
Augusta	A2856GT3220	183.4	91.9	17.3	0.3	56.3	27473
Dekalb	DKC 55-21RIB	198.4	99.5	16.4	0.0	56.0	27104
Dekalb	DKC 55-53RIB	199.5	100.0	16.2	0.7	57.1	26920
Dekalb	DKC 55-85RIB	217.5	109.0	<mark>16.4</mark>	<mark>0.3</mark>	<mark>56.6</mark>	<mark>25998</mark>
Dekalb	DKC 57-99RIB	214.2	107.3	16.4	0.0	57.4	26835
Doebler's	4417AMXT	203.4	101.9	17.3	0.0	59.0	26551
Doebler's	4919AM	198.8	99.6	17.1	0.3	56.1	27473
Hubner Seed	H04G287 DGVT2PRIB	207.7	104.1	16.2	0.0	57.3	26598
Local Seed	LC0488SSX	169.3	84.9	17.4	0.0	57.8	24707
Pioneer	0339AM	202.8	101.6	17.8	0.0	57.3	25445
1	Mean	199.5	100	16.85	0.17	57.1	26510
Prob	ability > F	<0.0001		1E-04	0.71	<0.0001	0.08
l	-SD _{0.10}	11.6		0.52	0.7	0.7	1502
	CV%	7.6		3.8	276	1.7	4.9

¹See Table 5 for trait designations for early-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk are not significantly different (Probability > F ≤0.10) for yield compared to the top-yielding hybrid at this location.

Table 21. Performance of mid-season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight (lb/bu) ²	(plants/A)
Augusta	A4463VT2PRO	209.7	99.3	17.6	0.0	58.3	27473
Augusta	A4858GT3010	207.0	97.9	18.2	0.3	59.1	26920
Augusta	A4860GT3220	209.5	99.1	18.3	2.0	57.3	28026
Dekalb	DKC 60-88RIB	210.3	99.5	17.5	3.0	60.1	26735
Dekalb	DKC 61-98RIB	207.9	98.4	17.3	0.7	58.8	27104
Dekalb	DKC 62-20RIB	207.2	98.1	16.8	0.0	57.7	26920
Dekalb	DKC 62-53RIB	218.5	103.4	18.3	0.7	58.6	27657
Doebler's	4919AM	203.6	96.3	17.2	0.3	55.7	26366
Doebler's	5018AM	206.2	97.6	16.8	10.8	56.2	26817
Dyna-Gro	D49VC70	223.9	106.0	17.0	0.3	60.1	29132
Dyna-Gro	D50VC30	210.9	99.8	17.6	0.7	58.7	28220
Dyna-Gro	D52VC63	207.9	98.4	18.0	0.0	57.9	26920
Hubner Seed	H08G394 DGVT2PRIB	206.2	97.6	17.3	1.8	57.8	27971
Hubner Seed	H4563RC2P VT2PRIB	233.4	110.5	<mark>18.6</mark>	0.3	<mark>59.7</mark>	<mark>29317</mark>
Local Seed	LC0877VT2P	216.9	102.6	17.0	0.0	56.5	27288
Pioneer	0843AM	209.4	99.1	17.9	0.0	58.1	28364
Pioneer	1197AM	223.3	105.7	17.1	1.0	57.5	27473
Syngenta	NK0886-3010	198.4	93.9	18.3	0.0	58.4	26920
Syngenta	NK0968-3110	204.0	96.6	18.7	0.3	56.2	27104
Tı	rial Mean	211.3	100	17.65	1.18	58	27512
Pro	bability > F	0.42					
		(NS)		<0.0001	0.25	<0.0001	0.82
	LSD _{0.10}	19.4		0.49	5.2	0.85	2360
	CV%	6.7		3.9	341	2.3	5.8

¹See Table 6 for trait designations for mid-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk are not significantly different (Probability > F ≤0.10) for yield compared to the top-yielding hybrid at this location.

Table 22. Performance of full season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2018.

Brand/ Company	Hybrid Name ¹	Yield (bu/a) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight	Population (plants/A)
Name						(lb/bu) ²	
Augusta	A1165VT2 PRORIB	211.9	99.5	19.6	0.4	59.8	26920
Augusta	A1166VT2PRORIB	208.9	98.1	19.4	0.7	58.7	27473
Augusta	A4465GT3111	202.9	95.3	20.2	0.3	58.3	26551
Dekalb	DKC 64-35RIB	218.0	102.3	19.5	0.4	61.0	26182
Dekalb	DKC 65-20RIB	192.6	90.4	21.2	0.0	61.9	27473
Dekalb	DKC 65-95RIB	220.3	103.4	20.7	0.3	62.2	29501
Dekalb	DKC 66-75RIB	232.1*	109.0	19.5	0.0	59.3	26920
Dekalb	DKC 67-44RIB	220.8	103.7	20.4	0.7	61.6	28026
Doebler's	5018AM	205.6	96.5	16.7	9.4	56.2	27842
Doebler's	5319AM	209.6	98.4	18.7	0.6	59.7	29501
Doebler's	5518AM	201.6	94.6	18.1	0.0	58.3	26366
Dyna-Gro	D55VC45	218.2	102.4	18.6	0.7	59.3	26735
Hubner Seed	H4663RC2P VT2PRIB	217.6	102.2	18.8	0.3	58.7	28763
Hubner Seed	H4890RC2P VT2PRIB	241.1*	113.2	21.0	0.0	<mark>62.1</mark>	27104
Local Seed	LC1577VT2P	213.7	100.3	19.0	0.0	60.2	24891
Pioneer	1442AM	205.6	96.5	21.2	0.3	61.8	27288
Syngenta	NK1354-3110	219.9	103.2	19.1	0.0	57.6	26182
Syngenta	NK1573-3110	197.1	92.5	22.3	0.4	59.9	26551
Т	rial Mean	213	100	19.7	0.8	59.8	27237
Pro	bability > F	0.16		0.0007	0.53	<0.0001	0.009
	LSD _{0.10}	23.3		1.7	5.3	1.3	1763
	CV%	8.5		8.4	483	3.1	6.1

¹See Table 7 for trait designations for full season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk are not significantly different (Probability > F ≤0.10) for yield compared to the top-yielding hybrid at this location.

Table 23. Performance of early season hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2018. Note: The performance variation among these early season hybrids was the result of extensive raccoon damage.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight	(plants/A)
						(lb/bu) ²	
Augusta	A2856GT3220	121.7	90.6	14.9	17.4	55.1	27657
Dekalb	DKC 55-21RIB	92.8	69.1	13.6	26.6	55.7	28992
Dekalb	DKC 55-53RIB	130.4	97.1	14.1	3.7	56.2	27485
Dekalb	DKC 55-85RIB	ND ⁶	ND	ND	ND	ND	ND
Dekalb	DKC 57-99RIB	151.1	112.5	14.1	20.8	54.2	26837
Doebler's	4417AMXT	78.5	58.5	14.4	38.7	57.3	26713
Doebler's	4919AM	202.2	150.5	14.6	0.4	56.5	26062
Hubner Seed	H04G287 DGVT2PRIB	ND ⁶	ND	ND	ND	ND	ND
Local Seed	LC0488SSX	111.4	82.9	14.2	10.1	54.5	27288
Pioneer	0339AM	145.8	108.5	13.8	26.6	55.1	25348
	Mean	134.3	100	14.27	16.3	55.6	26808
Prok	pability > F	0.194					
		(NS)		0.0008	0.046	0.45	0.54
	LSD _{0.10}	65.9		0.3	15.5	2.2	2344
_	CV%	37.1		3	94.4	2.7	6.1

¹See Table 5 for trait designations for early-season hybrids.

²Yields and test weights are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

⁶ND – no data; this hybrid was completely destroyed by raccoon damage.

^{*}Hybrids with an asterisk are not significantly different (Probability > F ≤0.10) for yield compared to the top-yielding hybrid at this location.

Table 24. Performance of mid-season hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2018.

Brand/Company	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Name	Name ¹	(bu/A) ²	Yield	%	%	Weight (lb/bu) ²	(plants/A)
Augusta	A4463VT2PRO	215.7	103.8	15.1	0.0	59.3	27204
Augusta	A4858GT3010	201.8	97.1	14.7	5.5	58.0	26079
Augusta	A4860GT3220	191.1	91.9	15.0	1.1	56.5	26257
Dekalb	DKC 60-88RIB	209.5	100.7	14.4	1.4	58.8	27344
Dekalb	DKC 61-98RIB	209.9	100.9	14.8	3.9	58.5	28244
Dekalb	DKC 62-20RIB	199.3	95.9	14.8	1.0	57.2	26818
Dekalb	DKC 62-53RIB	220.1	105.9	15.0	0.4	57.8	27029
Doebler's	4919AM	203.8	98.0	14.7	0.8	56.9	25176
Doebler's	5018AM	224.5	108.0	14.2	1.1	56.7	26660
Dyna-Gro	D49VC70	196.4	94.5	14.7	3.6	58.9	27470
Dyna-Gro	D50VC30	211.5	101.7	14.7	3.9	58.4	27763
Dyna-Gro	D52VC63	209.4	100.7	15.3	1.1	58.5	26182
Hubner Seed	H08G394 DGVT2PRIB	206.5	99.3	14.7	3.9	57.7	27187
Hubner Seed	H4563RC2P VT2PRIB	212.9	102.4	15.7	1.3	59.4	28579
Local Seed	LC0877VT2P	195.5	94.0	14.9	2.1	55.7	27428
Pioneer	0843AM	222.1	106.9	14.8	0.0	57.7	27019
Pioneer	1197AM	208.6	100.3	15.0	2.8	57.6	27143
Syngenta	NK0886-3010	209.7	100.9	14.7	0.0	57.4	25542
Syngenta	NK0968-3110	201.4	96.9	15.3	0.7	55.8	26838
Trial Mean		207.9	100	14.9	1.8	57.7	26945
Probability > F		0.71					
		(NS)		<0.0001	0.63	<0.0001	0.12
LSD _{0.10}		24.5		0.36	4.2	0.7	1603
CV%		8.2		2.7	164	2	4.9

¹See Table 6 for trait designations for mid-season hybrids.

²Yield and test weight are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk are not significantly different (Probability > F ≤0.10) for yield compared to the top-yielding hybrid at this location.

Table 25. Performance of full season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2018.

Brand/	Hybrid	Yield	Relative	Moisture	Lodging ³	Test	Population
Company Name	Name ¹	(bu/a)²	Yield	%	%	Weight (lb/bu)²	(plants/A)
Augusta	A1165VT2 PRORIB	175.1	93.0	16.1	1.2	58.4	24483
Augusta	A1166VT2PRORIB	186.6	99.1	15.2	0.0	57.6	26941
Augusta	A4465GT3111	168.6	89.6	15.7	0.4	57.3	26228
Dekalb	DKC 64-35RIB	177.0	94.0	16.0	0.7	60.7	27482
Dekalb	DKC 65-20RIB	188.6	100.2	17.1	0.0	62.0	28589
Dekalb	DKC 65-95RIB	194.5	103.3	16.0	0.0	60.0	25763
Dekalb	DKC 66-75RIB	197.5	104.9	15.7	0.0	59.4	26920
Dekalb	DKC 67-44RIB	200.0	106.3	15.5	0.0	59.5	27619
Doebler's	5018AM	222.2	118.1	<mark>14.1</mark>	<mark>0.4</mark>	<mark>56.0</mark>	26289
Doebler's	5319AM	186.4	99.0	15.5	2.2	59.4	25813
Doebler's	5518AM	195.0	103.6	14.9	0.4	57.2	25553
Dyna-Gro	D55VC45	201.6	107.1	15.4	0.4	59.1	26145
Hubner Seed	H4663RC2P VT2PRIB	178.6	94.9	16.0	5.1	57.5	26478
Hubner Seed	H4890RC2P VT2PRIB	185.2	98.4	17.1	2.3	60.1	25338
Local Seed	LC1577VT2P	188.7	100.3	15.7	1.8	59.6	25163
Pioneer	1442AM	182.1	96.8	15.9	0.0	59.8	26556
Syngenta	NK1354-3110	164.0	87.1	15.5	1.8	57.4	25544
Syngenta	NK1573-3110	195.7	104.0	16.7	0.0	58.1	28164
Trial Mean		188.2	100	15.8	0.94	58.8	26393
Probability > F		0.81					
		(NS)		<0.0001	0.54	<0.0001	0.027
	LSD _{0.10}			0.6	3.2	0.9	1759
	CV%			5.3	251	2.7	5.6

¹See Table 7 for hybrid type code designations for full season hybrids.

²Yields are reported at 15% moisture content.

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

⁴Hybrids in **bold** are check hybrids.

⁵NS indicates that no statistically significant difference was observed for this characteristic.

^{*}Hybrids with an asterisk are not significantly different (p=0.10) for yield compared to the top-yielding hybrid at this location.

Table 26. Relative yield scores for early season hybrids evaluated in Maryland during 2018. Hybrids have good stability with scores 100 or greater at four or more locations.

Brand/	Hybrid	Relative Yield						
Company		Avg.	Wye	Poplar	Salisbury	Clarksville	Keedysville	
Name		5 Sites		Hill				
Augusta	A2856GT3220	90.5	95.6	90.3	84.0	90.6	91.9	
Dekalb	DKC 55-21RIB	91.6	106.4	84.9	98.1	69.1	99.5	
Dekalb	DKC 55-53RIB	103.2	112.5	91.2	115.4	97.1	100.0	
Dekalb	DKC 55-85RIB	115.4	112.9	122.3	117.3	ND	109.0	
Dekalb	DKC 57-99RIB	107.7	102.6	115.3	100.6	112.5	107.3	
Doebler's	4417AMXT	92.8	112.1	91.6	99.9	58.5	101.9	
Doebler's	4919AM	112.1	110.1	107.6	92.5	150.5	99.6	
Hubner Seed	H04G287 DGVT2PRIB	100.2	88.7	105.5	102.6	ND	104.1	
Local Seed	LC0488SSX	81.1	63.1	85.7	89.0	82.9	84.9	
Pioneer	0339AM	102.1	95.9	104.0	100.5	108.5	101.6	
Average (bu/A)		172.4	161.2	170.4	196.4	134.3	199.5	

¹ **Bold** hybrids are checks.

²Hybrids highlighted in light gray have relative yield ratings of 100 or greater at all sites tested.

³Hybrids highlighted in dark gray have relative yield ratings of 100 or greater at 4 testing sites.

Table 27. Relative yield scores for mid-season hybrids evaluated in Maryland during 2018. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Brand/Company	Hybrid	Relative Yield %					
Name	Name	Avg. 5	Wye	Poplar	Salisbury	Clarksville	Keedysville
		sites		Hill			
Augusta	A4463VT2PRO	104.9	105.3	101.8	114.2	103.8	99.3
Augusta	A4858GT3010	95.9	92.6	95.8	96.0	97.1	97.9
Augusta	A4860GT3220	92.5	89.9	86.6	95.0	91.9	99.1
Dekalb	DKC 60-88RIB	102.4	101.9	109.6	100.4	100.7	99.5
Dekalb	DKC 61-98RIB	97.1	94.4	102.8	88.9	100.9	98.4
Dekalb	DKC 62-20RIB	101.4	107.4	104.9	100.5	95.9	98.1
Dekalb	DKC 62-53RIB	108.9	124.6	106.4	104.0	105.9	103.4
Doebler's	4919AM	97.8	92.8	102.5	99.5	98.0	96.3
Doebler's	5018AM	104.0	111.2	102.5	100.7	108.0	97.6
Dyna-Gro	D49VC70	93.1	80.8	86.8	97.6	94.5	106.0
Dyna-Gro	D50VC30	97.5	95.0	92.9	97.9	101.7	99.8
Dyna-Gro	D52VC63	102.0	104.7	103.8	102.4	100.7	98.4
Hubner Seed	H08G394 DGVT2PRIB	97.4	89.7	94.5	106.0	99.3	97.6
Hubner Seed	H4563RC2P VT2PRIB	104.3	110.6	97.0	100.8	102.4	110.5
Local Seed	LC0877VT2P	99.0	97.9	103.4	97.2	94.0	102.6
Pioneer	0843AM	101.7	106.3	98.4	97.8	106.9	99.1
Pioneer	1197AM	106.1	107.8	111.7	105.2	100.3	105.7
Syngenta	NK0886-3010	94.7	84.1	104.3	90.4	100.9	93.9
Syngenta	NK0968-3110	96.2	87.5	94.5	105.4	96.9	96.6
Trial Mo	Trial Mean (bu/acre)		190.9	183.9	214.6	207.9	211.3

¹**Bold** hybrids are checks.

²Hybrids highlighted in light gray have relative yield ratings of 100 or greater at all sites tested.

³Hybrids highlighted in dark gray have relative yield ratings of 100 or greater at 4 testing sites.

Table 28. Relative yield scores for full-season hybrids evaluated in Maryland during 2018. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Brand/	Hybrid	Relative Yield %					
Company	Name	Avg.	Wye	Poplar	Salisbury	Clarksville	Keedysville
Name		5 Sites		Hill			
Augusta	A1165VT2 PRORIB	98.5	100.8	102.9	98.1	93.0	99.5
Augusta	A1166VT2PRORIB	99.2	101.6	99.5	99.3	99.1	98.1
Augusta	A4465GT3111	96.0	99.4	101.5	96.1	89.6	95.3
Dekalb	DKC 64-35RIB	97.5	98.4	96.9	97.8	94.0	102.3
Dekalb	DKC 65-20RIB	93.4	70.9	101.1	106.2	100.2	90.4
Dekalb	DKC 65-95RIB	106.0	112.4	101.7	110.9	103.3	103.4
Dekalb	DKC 66-75RIB	101.8	91.2	96.2	109.5	104.9	109.0
Dekalb	DKC 67-44RIB	103.4	110.3	92.7	106.1	106.3	103.7
Doebler's	5018AM	106.8	107.9	107.7	105.5	118.1	96.5
Doebler's	5319AM	99.0	103.3	105.8	90.2	99.0	98.4
Doebler's	5518AM	98.7	91.7	102.9	102.4	103.6	94.6
Dyna-Gro	D55VC45	101.3	107.6	91.6	99.8	107.1	102.4
Hubner Seed	H4663RC2P VT2PRIB	101.8	110.0	103.7	100.0	94.9	102.2
Hubner Seed	H4890RC2P VT2PRIB	103.8	102.7	105.6	101.1	98.4	113.2
Local Seed	LC1577VT2P	97.2	89.8	98.3	99.1	100.3	100.3
Pioneer	1442AM	94.2	100.4	92.8	86.0	96.8	96.5
Syngenta	NK1354-3110	91.0	77.3	94.2	95.1	87.1	103.2
Syngenta	NK1573-3110	100.9	101.7	110.7	97.2	104.0	92.5
Syngenta	NK1573-3110	100.9	100.8	102.9	98.1	93.0	99.5
Trial Mean (bu/acre)		194.8	185.1	171.8	212.4	188.2	213

¹**Bold** hybrids are checks.

²Hybrids highlighted in light gray have relative yield ratings of 100 or greater at 5 testing locations.

³Hybrids highlighted in dark gray have relative yield ratings of 100 or greater at 4 testing locations.