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2017 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 2017 were submitted in two ways. First, participating seed companies (Table 2) were solicited for submission of hybrids. These hybrids represented those currently available for purchase to experimental lines still under evaluation. Second, seed was purchased for hybrids chosen to be representative checks. The inclusion of the performance data for check hybrids allows comparisons of newer hybrids with some that are familiar.

During 2017, 54 hybrids were tested using four maturity group tests: (1) very early season (6 hybrids; Table 5); (2) early-season (9 hybrids; Table 6); (3) mid-season (20 hybrids; Table 7); and full-season (19 hybrids; Table 8). Each company designated the maturity group assignments for hybrids they submitted. Check hybrids were included in each of the four tests. All hybrids with the exception of one had genetic traits for insect protection and/or herbicide tolerance (Tables 5-8).

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 trash-wheels 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 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 9-12. Hybrid performance at individual locations can be found in Tables 13-27. 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 above the long-term averages at all five locations. Highlighting the 2017 trial year was a cooler, wetter May and a much wetter July and August than generally experienced. The cool, wet May caused no planting delay at any of the locations but it did result in slower than normal early season growth. The wet summer months provided adequate

moisture for the crop during the growing season and extended the grain fill period resulting in a very good trial year.

Averaged over the five locations, yield for the very-early (6), early (9), mid (20), and full season (19) hybrids was 191 bu/acre, 196 bu/acre, 210 bu/acre, and 212 bu/acre, respectively. Compared to 2016, these yields were -3% (very-early and early), +2%, and +4%, respectively, than was observed for the early, mid, and full season hybrids for that season. Average yield for the 54 hybrids tested across the five locations was 206 bu/acre or 5 bu/acre less than the record 211 bu/acre in 2014. However, 2017 was the third time in four years that average yield across the five testing locations exceeded 200 bu/acre. Three locations exceeded average yield of 210 bu/acre (Salisbury – 212.6; Keedysville – 212.3; and Clarksville – 210.6); 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 ($p \leq 0.10$) 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.

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 33-36) 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 2017, ten hybrids met this gold standard; Pioneer brand 0339 AM (very early); Pioneer brand 0604 AM and T.A. Seeds TA583-28RIB (early season); Dekalb brand DKC61-88RIB and Doeblers brands RPM 4917AM, RPM 5018AM and RPM 5125AM (mid-season); and Dekalb brands DKC 64-35RIB, DKC 66-75RIB, and Hubner brand H4744RC2P (full-season). Eight hybrids (four mid-season and four full season) had relative yield greater than 100 at 4-5 locations and are considered to have good stability.

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Additional Information

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

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Table 1. Production management practices used and other pertinent information for the locations of the 2017 Maryland Corn Hybrid Test.

Location	Soil Type & Previous Crop	Fertilizer	Herbicides & Insecticides	Tillage	Plant & Harvest Dates	Farm Staff
Wye R & E Center Queenstown, MD	Mattapeake silt loam Soybean	19 April: 252 lb/a as 4-19-27 30 May: 189 lb N as 30-0-0 Total: 199-48-68	17 April Pre-Plant Glyphosate 41 @ 3 pt/a 04 May Pre-Emerge Lexar EZ @ 3 qt/a No Insecticide	No-till with aid of trash wheels on planter	Plant 28 April Harvest 18 September Very Early; Early Tests 20 September Mid-Season Test 29 September Full Season Test	John Draper Joseph Street Thomas Eason
Lower Eastern Shore R&E Center-Poplar Hill Quantico, MD	Mattapex silt loam Nassowango silt loam Soybean followed by wheat cover crop	17 April: 318 lb/a 4.6-4.7-39.6-6.8S-1.3Mg 1 May: 181.9 lb/a as 19-19-00-0.1B-0.01Zn 1 June: 150 lb N/a as 30% UAN Total: 202-52-132-23S-4.4Mg-1.9B-0.25Zn	11 April Pre-Plant Gramoxone SL @ 1 qt/A 2-4D Ester @ 1 pt/A 820 Surfactant @ 5 fl oz/A 3 May Pre-Emerge Acuron @ 2.5 qt/A RoundUp @ 1 pt/A No Insecticide	No-till into cover crop with aid of trash wheels on planter	Plant 1 May Harvest 26 September	David Armentrout Jordan Miller Fred Senkbeil
Lower Eastern Shore R&E Center-Salisbury Salisbury, MD	Fort Mott loamy sand Soybean followed by wheat cover crop	20 April: 318 lb/a 4.6-4.7-39.6-6.8S-1.3Mg 1 May: 181.9 lb/a as 19-19-00-0.1B-0.01Zn 25 May: 98 lb N/a as 30% UAN 1 June: 98 lb N/a as 30% UAN Total: 248-52-132-23S-4.4Mg-1.9B-0.25Zn	11 April Pre-Plant Gramoxone SL @ 1 qt/A 2-4D Ester @ 1 pt/A 820 Surfactant @ 5 fl oz/A 2 May Pre-Emerge Acuron @ 2.5 qt/A RoundUp @ 1 pt/A No Insecticide	No-till into cover crop with aid of trash wheels on planter	Plant 1 May Harvest 15 September	David Armentrout James Lynch Vivian Calder David Long Jordan Miller
Central Maryland R&E Center - Clarksville Clarksville, MD	Delanco silt loam Soybean	18 April 225 lb/a 4-12-36-11S 10 May 130 lb N/a as 30% UAN Total: 139-27-81-25S	10 May Pre-Emerge Bicep II Mag @ 2 qt/acre Gramoxone S.L. 2.0 @ 1.5 pt/acre 80/20 Surfactant @ 1 pt/acre	No-till with aid of trash wheels on planter	Plant 10 May Harvest 18 October	Mike Dwyer David Justice Michael Gray
Western Maryland R&E Center Keedysville, MD	Swanpond silt loam Double Crop Soybean	14 April: 260 lb/a 7-18-27-8s 5 May: 170 lb N/a as 30% UAN Total: 187-46-70-15S-.05B	5 May Pre-plant Lexar @ 3 qt/acre Weedone.LV4 @ 1 pt/acre Gramoxone Inteon @ 1 qt/acre No post-emerge herbicide No insecticide	No-till with aid of trash wheels on planter	Plant 10 May Harvest 16 October	Ryan McDonald Douglas Price David Wyand

Table 2. Brands and companies represented in the 2017 Maryland corn hybrid tests.

Brand	Address
Armor	Armor Seed LLC, 183 Pennsylvania Ave., Waldenburg, AR 72475 www.armorseed.com
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/
Dyna-Gro	Crop Production Services/Dyna-Gro, 1140 Sweet Road, East Aurora, NY 14052 www.dynagroseed.com
Hubner Seed	Hubner Seed Company, 10280 West State Road 28, West Lebanon, IN 47991 www.hubnerseed.com
NK	Syngenta Seeds, 4013 Fairmount Pike, Signal Mountain, TN 37377 www.syngenta-us.com
Pioneer	Dupont- Pioneer, PO Box 1000, Johnston, IA 50131 www.pioneer.com
RPM	Doebler's PA Hybrids, Inc., 1000 Commerce Park Dr., Suite 106 Williamsport, PA 17701 www.doeblers.com
T.A. Seeds	T.A. Seeds., 39 Seeds Lane, Jersey Shore, PA 17740 www.taseeds.com

Table 3. Precipitation received at each location where the Maryland corn hybrid tests were conducted during 2017.

Month	Wye	Poplar Hill	Salisbury ¹	Keedysville	Clarksville
	-----Inches-----				
April	2.13	2.48	2.55	2.52	2.67
May	5.95	5.19	6.10	4.44	5.70
June	1.70	1.64	1.92 (2.0)	4.78	1.06
July	8.84	10.5	9.23 (1.6)	6.00	5.86
August	10.81	8.7	13.03	3.09	5.19
September	1.62	1.4	1.47	2.34	2.56
2017 Total (6 month)	31.05	29.91	34.30 (3.6)	23.17	23.04
Long Term Average²	26.84	23.03	25.02	21.25	22.5

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 these respective number of years at Wye (18), Poplar Hill (17), Salisbury (28), Clarksville (8), and Keedysville (38).

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

Abbreviation	Description
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 3000GT	Protection against corn borer and corn rootworm plus glyphosate and glufosinate herbicide tolerance.
Avicta 500 or A500	A nematicide seed treatment.
Avicta Complete Corn	A nematicide/insecticide/fungicide seed treatment combination.
BT	Contains a <i>Bacillus thuringiensis</i> (Bt) event for protection against European corn borer.
Conventional	Indicates a hybrid with no biotechnology linked genetic enhancement.
Cruiser 250 and 500	A neonicotinoid based insecticide seed treatment.
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.
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.
GENVT3PRIB, VT3P RIB	A triple stack package that protects against European and Southwest corn borer, corn earworm, fall armyworm, and corn rootworm, is glyphosate tolerant, and has non-Bt seed blended in the bag creating refuge in the bag.
GT	Refers to glyphosate (Roundup) herbicide tolerance.
GT 3000	Agrisure® triple stack hybrid for corn borer and corn rootworm protection plus tolerance of in-season applications of glyphosate and glufosinate.
3110GT	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.
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
VT2PRO/DroughtGard	Contains RR2 gene, YieldGard corn stalk borer gene, and Drought Gard gene.
VT2PDG RIB	Contains RR2 gene, YieldGard corn stalk borer gene, Drought Gard gene, and non-Bt seed blended in the bag for refuge in the bag.
VT3PRO	Contains RR2 gene plus above and below ground insect protection.
VT3P RIB	A triple stack package that protects against European and Southwest corn borer, corn earworm, fall armyworm, and corn rootworm, is glyphosate tolerant, and has non-Bt seed blended in the bag creating refuge in the bag.

Table 5. Relative maturity, genetic traits, and seed treatments for very early season hybrids tested in Maryland during 2017.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits ¹	Seed Treatment
Armor	0303 PRO	103	PRO2 RR	A500/Votivo
Augusta	A3750	100	GT3000	Cruiser 250
Doebler's	RPM 4115AMXT	101	BT/CB/LL/RR/RW ACREMAX XTREME	Cruiser 250
Doebler's	RPM 4417AMXT	104	BT/CB/LL/RR/RW ACREMAX XTREME	Cruiser 250
Hubner	H6257RCSS	104	SSTXRIB	Accelleron/Poncho/Votivo 500
Pioneer	P0339AM	103	YGCB, HX1, RR2, LL	

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

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

Table 6. Relative maturity, genetic traits, and seed treatments for early-season hybrids tested in Maryland during 2017.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits ¹	Seed Treatment
Augusta	A1156	106	SmartStax	Cruiser 250
Dekalb	DKC55-21RIB	105	GENVT2PRIB	A500/Votivo
Dekalb	DKC56-03RIB	106	GENSSRIB	A500/Votivo
Dekalb	DKC57-99RIB	107	GENDGVT2PRIB	A500/Votivo
Dekalb	DKC58-08RIB	108	GENVT2PRIB	A500/Votivo
Doebler's	RPM 4717AMX	107	BT/CB/LL/RR/RW ACREMAX XTRA	Cruiser 250
Hubner	H6349RCSS	108	SSTXRIB	Accelleron/Poncho/Votivo 500
T.A. Seeds	TA547-22DPRIB	106	VT2PRIB	A500
T.A. Seeds	TA583-28RIB	108	SSXRIB	A500
Pioneer	P0604AM	106	YGCB, HX1, RR2, LL	

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

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

Table 7. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in Maryland during 2017.

Brand/ Company Name	Hybrid Name	Relative Maturity	Genetic Traits ¹	Seed Treatment
Armor	0909 PRO	109	PRO2 RR	A500/Votivo
Armor	AXG7109	109	PRO2 RR	A500/Votivo
Armor	AXG7110	110	PRO2 RR	A500/Votivo
Augusta	A5062	112	3110GT	Cruiser 250
Augusta	A5162	112	3000GT	Cruiser 250
Augusta	A1159	109	GTCBLL	Cruiser 250
Augusta	A1059	109	3111GT	Cruiser 250
Dekalb	DKC60-69RIB	110	GENDGVT2PRIB	A500/Votivo
Dekalb	DKC61-88RIB	111	GENVT3PRIB	A500/Votivo
Dekalb	DKC62-08RIB	112	GENSSRIB	A500/Votivo
Dekalb	DKC62-20RIB	112	GENVT2PRIB	A500/Votivo
Doebler's	RPM 4917AM	109	BT/CB/LL/RR ACREMAX ABOVE	Cruiser 250
Doebler's	RPM 5018AM	110	BT/CB/LL/RR ACREMAX ABOVE	Poncho 1250/Votivo
Doebler's	RPM 5125AM	111	BT/CB/LL/RR ACREMAX ABOVE	Poncho 1250/Votivo
Dyna-Gro	D50VC30	110	VT2 PRO	Poncho500/Votivo
Dyna-Gro	D52VC91	112	VT2 PRO	Poncho500/Votivo
Dyna-Gro	CX17212	112	VT2 PRO	Poncho500/Votivo
Hubner	H12G624	112	VT2PDGRIB	Accelleron/Poncho/Votivo 500
Syngenta	N66V-3120	110	Bt,RR	Avicta Complete
Pioneer	P1197AM	111	YGCB, HX1, RR2, LL	

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

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

Table 8. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in Maryland during 2017.

Brand/ Company Name	Hybrid Name	Relative Maturity	Genetic Traits ¹	Seed Treatment
Augusta	A1564	114	GTCBLL	Cruiser 250
Augusta	A5065	115	Conventional	Cruiser 250
Dekalb	DKC64-35RIB	114	GENVT2PRIB	A500/Votivo
Dekalb	DKC64-89RIB	114	GENVT2PRIB	A500/Votivo
Dekalb	DKC65-20RIB	115	GENDGVT2PRIB	A500/Votivo
Dekalb	DKC65-94	115	GENSS	A1250/Votivo
Dekalb	DKC66-75RIB	116	GENVT2PRIB	A500/Votivo
Dekalb	DKC67-44	117	GENVT2P	A500/Votivo
Doebler's	RPM 5518AM	115	BT/CB/LL/RR ACREMAX ABOVE	Poncho 1250/Votivo
Doebler's	RPM 5818AM	118	BT/CB/LL/RR ACREMAX ABOVE	Poncho 1250/Votivo
Dyna-Gro	D54VC52	114	VT2 PRO	Poncho500/Votivo
Hubner	H4744RC2P	113	VT2PRIB	Accelleron/Poncho/Votivo 500
Hubner	H6663RCSS	113	SSTXRIB	Accelleron/Poncho/Votivo 500
Hubner	H4755RC2P	114	VT2PRIB	Accelleron/Poncho/Votivo 500
Syngenta	N76A-3000GT	114	Bt, RR	Avicta Complete
Syngenta	N83D-3111	118	Bt, RR	Avicta Complete
T.A. Seeds	TA736-28RIB	113	SSXRIB	A500
T.A. Seeds	TA758-28RIB	115	SSXRIB	A500
Pioneer	P1443AM	114	YGCB, HX1, RR2, LL	

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

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

Table 9. Performance of very early maturity hybrids evaluated at five Maryland locations during 2017.

Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²
1	Armor	303	190.5	99.6	18.8	0.8	57.7
10	Augusta	3750	182.0	95.1	16.8	0.8	57.6
27	Doebler's	RPM 4115AMXT	189.7	99.2	17.8	0.7	55.9
28	Doebler's	RPM 4417AMXT	198.4*	103.7	19.0	0.1	57.8
39	Hubner	H6257RCSS	184.1	96.2	18.7	0.5	56.9
52	Pioneer	P0339AM	204.8*	107.1	18.9	0.4	55.8
Mean			191.3		18.3	0.53	57
Probability > F			0.017		0.005	0.22	<0.0001
LSD _{0.10}			8.7		0.7	NS	0.6
CV%			9.4		9.7	221	3.4

¹See Table 5 for trait designations for very 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 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 early maturity hybrids evaluated at five Maryland locations during 2017.

Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²
8	Augusta	1156	196.7	100.4	18.6	0.2	58.5
13	Dekalb	DKC55-21RIB	198.3	101.3	18.6	0.2	57.0
15	Dekalb	DKC57-99RIB	187.2	95.6	18.1	0.4	57.1
16	Dekalb	DKC58-08RIB	187.9	96.0	21.0	0.7	58.8
29	Doebler's	RPM 4717AMX	191.6	97.9	19.9	0.5	57.8
40	Hubner	H6349RCSS	200.8*	102.6	20.9	0.3	58.9
48	T.A. Seeds	TA547-22DPRIB	189.6	96.8	18.1	0.5	57.6
49	T.A. Seeds	TA583-28RIB	200.1*	102.2	19.7	0.5	56.8
53	Pioneer	P0604AM	209.7*	107.1	18.9	0.7	58.7
Mean			195.8		19.3	0.45	57.9
Probability > F			0.013		0.532	0.30	0.69
LSD _{0.10}			9.7		NS	NS	NS
CV%			9.7		10.7	236	2.9

¹See Table 6 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 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 11. Performance of mid-season maturity hybrids evaluated at five Maryland locations during 2017.

Entry No.	Brand/ Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²
2	Armor	909	190.7	90.6	20.7	0.3	56.9
3	Armor	AXG7109	206.9	98.3	20.5	0.0	59.5
4	Armor	AXG7110	209.8	99.7	20.9	0.4	58.5
7	Augusta	5062	203.4	96.6	24.3	0.3	60.8
9	Augusta	5162	203.9	96.9	22.6	1.1	59.3
11	Augusta	1159	205.2	97.5	20.2	0.3	59.1
12	Augusta	1059	201.8	95.9	20.3	0.6	56.9
17	Dekalb	DKC60-69RIB	207.7	98.7	20.9	0.3	58.7
18	Dekalb	DKC61-88RIB	215.3*	102.3	20.8	0.2	58.8
19	Dekalb	DKC62-08RIB	215.6*	102.4	22.0	3.1	58.7
20	Dekalb	DKC62-20RIB	213.5*	101.4	22.4	0.0	59.4
30	Doebler's	RPM 4917AM	219.6*	104.3	21.5	0.6	58.5
31	Doebler's	RPM 5018AM	218.6*	103.8	21.5	0.3	57.6
32	Doebler's	RPM 5125AM	214.7*	102.0	22.4	0.1	58.8
35	Dyna-Gro	D50VC30	215.1*	102.2	22.1	0.2	59.1
36	Dyna-Gro	D52VC91	212.2*	100.8	22.6	0.2	60.9
37	Dyna-Gro	CX17212	209.7	99.6	22.8	0.3	58.6
41	Hubner	H12G624	215.6*	102.4	24.2	0.1	56.3
45	Syngenta	N66V-3120	212.1*	100.8	22.0	0.4	58.1
54	Pioneer	P1197AM	218.7*	103.9	22.4	0.0	59.0
Trial Mean			210.5		21.9	0.35	58.8
Probability > F			<0.0001		<0.0001	0.96	0.31
LSD_{0.10}			8.5		0.9	NS	NS
CV%			9.7		14.0	485	4.3

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 12. Performance of full season hybrids evaluated at five Maryland locations during 2017.

Entry No.	Brand/ Company Name	Hybrid Name ¹	Yield (bu/a) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²
5	Augusta	1564	201.9	95.0	22.2	1.5	54.9
6	Augusta	5065	201.4	94.8	23.5	0.7	61.6
21	Dekalb	DKC64-35RIB	223.7*	105.3	20.9	0.2	60.6
22	Dekalb	DKC64-89RIB	212.1	99.9	21.3	0.1	59.4
23	Dekalb	DKC65-20RIB	221.4*	104.3	23.9	0.2	60.4
24	Dekalb	DKC65-94	215.9*	101.7	21.8	0.2	60.6
25	Dekalb	DKC66-75RIB	221.9*	104.5	22.6	0.5	59.5
26	Dekalb	DKC67-44	221.0*	104.1	21.9	0.8	60.3
33	Doebler's	RPM 5518AM	218.5*	102.9	23.1	0.1	58.9
34	Doebler's	RPM 5818AM	217.1*	102.2	23.0	0.4	60.3
38	Dyna-Gro	D54VC52	211.9	99.7	23.2	0.3	60.6
42	Hubner	H4744RC2P	219.4*	103.3	23.2	0.2	60.2
43	Hubner	H6663RCSS	223.1*	105.0	23.7	0.0	59.2
44	Hubner	H4755RC2P	211.8	99.7	21.5	0.0	59.0
46	Syngenta	N76A-3000GT	204.5	96.3	22.2	0.6	54.8
47	Syngenta	N83D-3111	201.1	94.7	24.8	0.3	58.7
50	T.A. Seeds	TA736-28RIB	205.2	96.6	21.5	0.3	59.7
51	T.A. Seeds	TA758-28RIB	204.0	96.0	23.6	0.4	60.7
55	Pioneer	P1443AM	200.8	94.6	21.3	0.2	57.8
Trial Mean			212.4		22.6	0.38	59.3
Probability > F			0.1478		0.32	0.0051	0.1765
LSD_{0.10}			11.0			0.6	
CV%			8.9		12.5	321	4.1

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 13. Performance of very early maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2017.

Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
1	Armor	303	184.8	101.1	21.5	1.4	56.0	26318
10	Augusta	3750	183.5	100.4	17.4	0.4	55.9	24495
27	Doebler's	RPM 4115AMXT	184.6	101.0	18.8	1.6	53.2	25047
28	Doebler's	RPM 4417AMXT	165.5	90.6	22.0	0.0	55.9	25955
39	Hubner	H6257RCSS	179.9	98.5	20.2	0.0	54.6	24321
52	Pioneer	P0339AM	197.2	107.9	21.6	0.0	54.3	23232
Mean			182.6		20.2	0.6	55.0	24894
Probability > F			0.93		0.44	0.18	0.05	0.14
LSD_{0.10}			NS		NS	NS	2.2	NS
CV%			9.8		8.9	223.2	2.4	6.7

¹See Table 5 for trait designations for very 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.

⁴Hybrid/s (**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 14. Performance of early maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2017.

Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
8	Augusta	1156	179.7	98.5	19.7	0.4	56.9	23414
13	Dekalb	DKC55-21RIB	194.3	106.5	20.0	0.0	55.5	24684
15	Dekalb	DKC57-99RIB	150.1	82.3	20.0	0.0	55.6	22869
16	Dekalb	DKC58-08RIB	186.0	101.9	23.5	0.3	57.1	24684
29	Doebler's	RPM 4717AMX	177.7	97.4	21.3	0.0	56.3	23958
40	Hubner	H6349RCSS	191.4	104.9	25.0	0.3	58.2	25410
48	T.A. Seeds	TA547-22DPRIB	185.5	101.6	20.9	0.4	56.1	24321
49	T.A. Seeds	TA583-28RIB	186.2	102.0	22.6	0.0	55.2	22688
53	Pioneer	P0604AM	191.5	104.9	21.0	0.0	57.0	24684
Mean			182.5		21.55	0.16	56.4	24079
Probability > F			0.22		0.13	0.70	0.75	0.72
LSD_{0.10}			NS		NS	NS	NS	NS
CV%			11.6		9.7	245.6	1.9	7.3

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 (**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 15. Performance of mid-season maturity hybrids evaluated at Wye R&E Center, Queenstown, MD during 2017.

Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
2	Armor	909	185.7	90.6	23.0	0.0	56.2	23414
3	Armor	AXG7109	200.9	98.0	22.1	0.0	58.1	25955
4	Armor	AXG7110	195.2	95.2	23.5	0.0	56.9	24503
7	Augusta	5062	188.7	92.1	25.7	0.3	58.0	25592
9	Augusta	5162	212.5*	103.7	24.7	0.3	58.3	27044
11	Augusta	1159	198.2	96.7	22.8	0.4	58.6	24503
12	Augusta	1059	195.1	95.2	20.8	0.7	55.5	25047
17	Dekalb	DKC60-69RIB	203.8	99.4	24.4	0.0	57.9	23777
18	Dekalb	DKC61-88RIB	210.6*	102.7	22.7	0.0	57.2	24321
19	Dekalb	DKC62-08RIB	224.1	109.3	23.2	0.0	57.8	25955
20	Dekalb	DKC62-20RIB	208.2*	101.6	25.0	0.0	58.1	25229
30	Doebler's	RPM 4917AM	211.9*	103.4	23.1	0.0	57.6	24140
31	Doebler's	RPM 5018AM	208.9*	101.9	25.6	0.0	57.8	24321
32	Doebler's	RPM 5125AM	211.3*	103.1	25.8	0.0	58.5	24866
35	Dyna-Gro	D50VC30	207.8*	101.4	25.1	0.0	57.9	25410
36	Dyna-Gro	D52VC91	207.5*	101.2	25.2	0.0	59.3	25229
37	Dyna-Gro	CX17212	210.2*	102.6	26.2	0.4	58.3	25229
41	Hubner	H12G624	209.2*	102.1	27.0	0.0	57.9	25592
45	Syngenta	N66V-3120	208.4*	101.7	25.9	0.0	56.8	23232
54	Pioneer	P1197AM	201.9	98.5	26.0	0.0	59.1	25410
Trial Mean			205		24.4	0.11	57.8	24938
Probability > F			0.011		<0.0001	0.22	0.04	0.68
LSD_{0.10}			16.8		2.1	NS	1.7	NS
CV%			6.4		7.5	353	2.2	5

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 16. Performance of full season hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2017.

Test Entry No.	Brand/ Company Name	Hybrid Name ¹	Yield (bu/a) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
5	Augusta	1564	188.7	90.8	17.1	0.7	53.2	23595
6	Augusta	5065	196.2	94.5	20.3	0.8	59.2	23232
21	Dekalb	DKC64-35RIB	220.9	106.4	18.1	0.4	58.3	25047
22	Dekalb	DKC64-89RIB	209.2	100.7	18.2	0.0	57.6	24684
23	Dekalb	DKC65-20RIB	207.2	99.8	20.5	0.0	59.7	24503
24	Dekalb	DKC65-94	217.0	104.5	17.5	0.0	59.0	25592
25	Dekalb	DKC66-75RIB	226.6	109.1	18.3	0.4	57.6	25410
26	Dekalb	DKC67-44	219.8	105.8	18.8	0.0	58.6	26681
33	Doebler's	RPM 5518AM	200.2	96.4	19.6	0.0	57.2	25047
34	Doebler's	RPM 5818AM	216.8	104.4	20.4	0.0	58.6	23958
38	Dyna-Gro	D54VC52	217.1	104.5	19.5	0.0	58.6	25229
42	Hubner	H4744RC2P	218.2	105.1	19.6	0.0	58.7	24503
43	Hubner	H6663RCSS	219.8	105.8	20.8	0.0	57.2	26136
44	Hubner	H4755RC2P	208.0	100.1	19.0	0.0	57.0	25047
46	Syngenta	N76A-3000GT	202.8	97.7	18.6	0.0	53.4	23051
47	Syngenta	N83D-3111	181.5	87.4	21.9	0.4	56.9	23595
50	T.A. Seeds	TA736-28RIB	200.7	96.6	18.0	0.4	58.0	24321
51	T.A. Seeds	TA758-28RIB	204.2	98.3	19.9	0.0	58.4	24503
55	Pioneer	P1443AM	192.1	92.5	19.2	0.0	55.5	24321
Trial Mean			207.7		19.2	0.16	57.5	24655
Probability > F			0.63		0.025	0.016	0.41	0.005
LSD_{0.10}			NS				NS	
CV%			8.9		7.2	283.0	3.1	5.1

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 next to yield are not significantly different (Probability > F ≤ 0.10) compared to the **top-yielding hybrid** at this location.

Table 17. Performance of very early season hybrids at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
1	Armor	303	186.3	104.8	16.7	0.0	57.0	24684
10	Augusta	3750	169.9	95.6	15.0	0.4	56.6	24503
27	Doebler's	RPM 4115AMXT	168.0	94.5	15.8	0.0	53.8	24684
28	Doebler's	RPM 4417AMXT	176.2	99.1	16.3	0.4	55.6	24866
39	Hubner	H6257RCSS	166.3	93.6	16.4	0.0	56.5	24684
52	Pioneer	P0339AM	199.9	112.4	17.0	0.0	53.8	23958
Trial Mean			177.8		16.2	0.12	55.5	24563
Probability > F			0.49		0.84	0.38	0.9	0.63
LSD_{0.10}			NS		NS	NS	NS	NS
CV%			10.2		5.1	291.0	2.7	4

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 early season hybrids at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
8	Augusta	1156	189.3	102.2	16.5	0.0	57.0	24866
13	Dekalb	DKC55-21RIB	185.0	100.0	16.8	0.0	56.0	24866
15	Dekalb	DKC57-99RIB	186.6	100.8	16.3	0.0	56.7	22688
16	Dekalb	DKC58-08RIB	173.4	93.7	19.4	0.0	58.4	23414
29	Doebler's	RPM 4717AMX	180.0	97.2	16.9	0.0	55.8	24140
40	Hubner	H6349RCSS	190.5	102.9	17.0	0.0	58.5	24140
48	T.A. Seeds	TA547-22DPRIB	170.4	92.1	16.1	0.0	57.0	22506
49	T.A. Seeds	TA583-28RIB	195.3	105.5	17.1	0.0	55.6	23414
53	Pioneer	P0604AM	195.4	105.6	17.6	0.0	58.1	24140
Trial Mean			185.1		17.1	0	57	23797
Probability > F			0.58		0.99	1	0.4	0.53
LSD_{0.10}			NS		NS	NS	NS	NS
CV%			8.48		7.26		2.16	5.03

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 included with funding from the Maryland Grain Producers' Utilization Board.

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 19. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu)	Population (plants/A)
2	Armor	909	181.9	90.6	17.6	0.8	56.2	22688
3	Armor	AXG7109	195.2*	97.2	18.2	0.0	59.8	24321
4	Armor	AXG7110	196.1*	97.7	18.3	0.4	57.4	24503
7	Augusta	5062	203.4*	101.3	20.2	0.0	60.1	23958
9	Augusta	5162	191.1	95.2	20.4	0.0	58.8	23777
11	Augusta	1159	198.9*	99.1	18.1	0.4	59.2	23958
12	Augusta	1059	198.2*	98.7	18.3	0.0	57.0	22869
17	Dekalb	DKC60-69RIB	202.3*	100.8	18.5	0.4	58.4	23958
18	Dekalb	DKC61-88RIB	208.9*	104.0	17.5	0.0	57.3	24684
19	Dekalb	DKC62-08RIB	178.5	88.9	19.0	14.6	56.4	23051
20	Dekalb	DKC62-20RIB	205.8*	102.5	18.7	0.0	58.4	24321
30	Doebler's	RPM 4917AM	215.5*	107.3	19.3	0.4	57.3	24684
31	Doebler's	RPM 5018AM	210.8*	105.0	18.0	0.0	56.9	23777
32	Doebler's	RPM 5125AM	204.4*	101.8	19.2	0.4	57.9	24321
35	Dyna-Gro	D50VC30	199.1*	99.1	19.3	0.0	58.5	24140
36	Dyna-Gro	D52VC91	195.5*	97.4	19.1	0.0	60.3	24684
37	Dyna-Gro	CX17212	195.9*	97.6	19.8	0.4	57.8	23777
41	Hubner	H12G624	217.8	108.5	20.3	0.0	49.1	25047
45	Syngenta	N66V-3120	204.1*	101.6	19.2	0.0	57.9	23777
54	Pioneer	P1197AM	210.7*	104.9	19.2	0.0	57.4	23595
Trial Mean			200.8		18.9	0.88	57.6	23994
Probability > F			0.05		0.82	0.74	0.72	0.35
LSD_{0.10}			24.3		NS	NS	NS	NS
CV%			15.10		5.34	452.65	6.24	4.92

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 ≤ 0.10) compared to the **top-yielding hybrid** at this location.

Table 20. Performance of full season hybrids evaluated at Lower Eastern Shore R&E Center- Poplar Hill Facility, Quantico, MD during 2017.

Test Entry No.	Brand/ Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
5	Augusta	1564	208.5	101.2	19.2	0.0	53.6	23154
6	Augusta	5065	201.4	97.7	22.9	0.0	60.5	23777
21	Dekalb	DKC64-35RIB	215.4	104.5	18.4	0.0	59.2	24503
22	Dekalb	DKC64-89RIB	205.9	99.9	18.8	0.0	58.2	24684
23	Dekalb	DKC65-20RIB	229.1	111.2	21.2	0.0	58.8	24866
24	Dekalb	DKC65-94	208.4	101.1	19.2	0.0	58.1	24321
25	Dekalb	DKC66-75RIB	208.2	101.0	22.5	0.4	60.4	24866
26	Dekalb	DKC67-44	220.6	107.0	20.9	0.0	60.0	26136
33	Doebler's	RPM 5518AM	200.2	97.1	20.2	0.0	57.8	24503
34	Doebler's	RPM 5818AM	219.9	106.7	21.2	0.0	59.6	24503
38	Dyna-Gro	D54VC52	199.9	97.0	21.9	0.0	59.7	22506
42	Hubner	H4744RC2P	219.1	106.3	22.2	0.0	60.2	23414
43	Hubner	H6663RCSS	217.5	105.5	21.8	0.0	58.5	24866
44	Hubner	H4755RC2P	197.0	95.6	20.8	0.0	59.3	24866
46	Syngenta	N76A-3000GT	201.4	97.7	19.5	0.0	53.9	21962
47	Syngenta	N83D-3111	180.2	87.4	23.3	0.0	57.7	23051
50	T.A. Seeds	TA736-28RIB	191.1	92.7	19.4	0.8	59.7	24684
51	T.A. Seeds	TA758-28RIB	195.8	95.0	23.4	0.0	61.2	23051
55	Pioneer	P1443AM	196.7	95.4	20.3	0.4	57.9	23414
Trial Mean			206.1		20.9	0.08	58.7	24059
Probability > F			0.29		0.16	0.98	0.73	0.39
LSD_{0.10}			NS		NS	NS	NS	NS
CV%			9.01		10.21	457.21	4.02	5.56

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 included.

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 21. Performance of very early-season hybrids evaluated at Lower Eastern Shore Research and Education Center, Salisbury Facility, Salisbury, MD during 2017.

Test Entry No.	Brand/ Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
1	Armor	303	188.2	94.7	17.1	0.0	56.3	28948
10	Augusta	3750	188.7	94.9	16.7	1.5	57.3	29870
27	Doebler's	RPM 4115AMXT	199.1*	100.2	18.5	0.3	56.3	30607
28	Doebler's	RPM 4417AMXT	212.4	106.8	19.5	0.0	57.8	29317
39	Hubner	H6257RCSS	194.3	97.8	19.4	0.0	56.5	29870
52	Pioneer	P0339AM	210.0*	105.6	18.3	0.3	56.0	29501
Mean			198.8		18.24	0.35	56.7	29685
Probability > F			0.017		0.005	0.45	0.34	0.58
LSD_{0.10}			15.1		1.3	NS	NS	NS
CV%			6.1		6.3	247.8	1.3	3.3

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 22. Performance of early-season hybrids evaluated at Lower Eastern Shore Research and Education Center, Salisbury Facility, Salisbury, MD during 2017.

Test Entry No.	Brand/ Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
8	Augusta	1156	201.9	100.5	20.4	0.0	58.4	30238
13	Dekalb	DKC55-21RIB	207.2	103.2	18.8	0.0	56.8	29317
15	Dekalb	DKC57-99RIB	196.5	97.8	17.0	0.3	56.3	27842
16	Dekalb	DKC58-08RIB	201.3	100.2	19.8	0.0	58.4	28763
29	Doebler's	RPM 4717AMX	190.5	94.8	21.1	0.0	57.6	28948
40	Hubner	H6349RCSS	198.8	99.0	21.7	0.0	58.4	29317
48	T.A. Seeds	TA547-22DPRIB	189.3	94.2	17.4	0.6	57.3	29501
49	T.A. Seeds	TA583-28RIB	203.2	101.2	20.4	0.0	55.9	26920
53	Pioneer	P0604AM	218.9	109.0	18.4	0.9	56.8	29870
Mean			200.9		19.45	0.21	57.3	28968
Probability > F			0.72		0.99	0.047	0.21	0.68
LSD_{0.10}			NS		NS	0.62	NS	NS
CV%			7.8		8.3	226.3	2.0	5.4

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 included.

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 23. Performance of mid-season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury Facility, Salisbury, MD during 2017.

Test Entry No.	Brand/Company	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population plants/A)
2	Armor	909	200.0	92.3	22.2	0.0	55.7	25813
3	Armor	AXG7109	226.4	104.5	21.5	0.0	58.3	30423
4	Armor	AXG7110	221.9	102.4	21.5	0.3	58.2	29132
7	Augusta	5062	200.6	92.6	25.4	0.0	59.5	27104
9	Augusta	5162	202.2	93.3	24.1	0.3	58.1	30054
11	Augusta	1159	221.8	102.4	20.7	0.6	58.0	29685
12	Augusta	1059	199.7	92.2	21.8	0.0	55.7	28948
17	Dekalb	DKC60-69RIB	210.7	97.2	20.0	0.0	57.9	29317
18	Dekalb	DKC61-88RIB	219.8	101.4	21.4	0.0	59.0	30792
19	Dekalb	DKC62-08RIB	228.5	105.4	22.5	0.0	57.1	29685
20	Dekalb	DKC62-20RIB	215.9	99.7	23.6	0.0	58.4	27842
30	Doebler's	RPM 4917AM	220.3	101.7	22.9	0.0	58.3	28948
31	Doebler's	RPM 5018AM	220.2	101.6	23.3	0.0	57.0	28948
32	Doebler's	RPM 5125AM	218.5	100.8	22.7	0.0	57.7	29132
35	Dyna-Gro	D50VC30	219.6	101.4	22.0	0.0	58.6	30607
36	Dyna-Gro	D52VC91	227.5	105.0	22.7	0.3	61.4	28763
37	Dyna-Gro	CX17212	213.1	98.3	24.0	0.0	57.6	28579
41	Hubner	H12G624	221.0	102.0	25.5	0.0	56.5	29132
45	Syngenta	N66V-3120	214.2	98.8	22.9	0.3	56.5	29317
54	Pioneer	P1197AM	232.1	107.1	23.8	0.0	58.3	29501
Trial Mean			216.7		22.73	0.09	57.9	29086
Probability > F			0.18		0.01	0.62	0.69	0.26
LSD_{0.10}			NS		2.1	NS	NS	NS
CV%			6.6		6.9	351.1	2.6	5.5

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 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 24. Performance of full season hybrids evaluated at Lower Eastern Shore R&E Center, Salisbury Facility, Salisbury, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/a) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
5	Augusta	1564	217.4	99.6	24.4	0.3	54.0	27657
6	Augusta	5065	198.2	90.9	27.0	0.0	61.8	26735
21	Dekalb	DKC64-35RIB	236.7	108.5	23.2	0.0	60.7	29870
22	Dekalb	DKC64-89RIB	213.5	97.8	21.8	0.0	59.0	29501
23	Dekalb	DKC65-20RIB	218.2	100.0	26.3	0.0	60.2	28948
24	Dekalb	DKC65-94	217.8	99.8	25.5	0.0	61.2	29317
25	Dekalb	DKC66-75RIB	220.0	100.8	25.0	0.0	58.9	29317
26	Dekalb	DKC67-44	229.0	105.0	24.8	0.0	59.9	29870
33	Doebler's	RPM 5518AM	223.0	102.2	27.0	0.0	59.3	29317
34	Doebler's	RPM 5818AM	223.4	102.4	26.1	0.0	60.1	28579
38	Dyna-Gro	D54VC52	216.1	99.0	26.3	0.4	60.7	27104
42	Hubner	H4744RC2P	227.8	104.4	24.5	0.0	59.6	29317
43	Hubner	H6663RCSS	208.7	95.7	25.6	0.0	58.1	30054
44	Hubner	H4755RC2P	222.5	102.0	21.6	0.0	58.1	29501
46	Syngenta	N76A-3000GT	211.9	97.1	23.7	0.0	53.6	26735
47	Syngenta	N83D-3111	213.4	97.8	27.7	0.0	58.6	26920
50	T.A. Seeds	TA736-28RIB	210.5	96.5	22.9	0.0	58.0	29501
51	T.A. Seeds	TA758-28RIB	218.5	100.1	26.2	0.0	60.0	27842
55	Pioneer	P1443AM	219.3	100.5	22.2	0.3	57.2	27288
Trial Mean			218.2		24.83	0.05	58.9	28598
Probability > F			0.87		0.27	0.95	0.17	0.69
LSD_{0.10}			NS		NS	NS	NS	NS
CV%			7.8		7.7	428.8	3.9	5.9

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 25. Performance of very early season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
1	Armor	303	202.8	98.0	20.6	0.4	59.9	23490
10	Augusta	3750	193.0	93.2	17.8	1.1	59.1	23172
27	Doebler's	RPM 4115AMXT	211.8*	102.3	18.9	0.0	58.8	23875
28	Doebler's	RPM 4417AMXT	220.6*	106.5	20.2	0.0	60.7	24748
39	Hubner	H6257RCSS	201.2	97.2	19.4	1.2	58.5	22876
52	Pioneer	P0339AM	213.0*	102.9	20.7	0.4	58.0	23008
Mean			207.1		19.6	0.5	59.2	23528
Probability > F			0.01		0.0001	0.59	0.0007	0.38
LSD_{0.10}			10.5		0.74	NS	0.75	NS
CV%			5.5		6.1	187.6	1.7	4.7

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 26. Performance of early season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
8	Augusta	1156	210.4*	101.0	19.0	0.0	59.0	23359
13	Dekalb	DKC55-21RIB	198.8	95.4	18.9	1.0	58.2	23873
15	Dekalb	DKC57-99RIB	187.2	89.8	21.3	1.7	59.7	23016
16	Dekalb	DKC58-08RIB	221.8*	106.4	20.2	0.0	59.7	25290
29	Doebler's	RPM 4717AMX	209.5*	100.5	21.3	0.4	59.9	24872
40	Hubner	H6349RCSS	201.2	96.6	18.1	1.1	59.2	25566
48	T.A. Seeds	TA547-22DPRIB	209.2*	100.4	19.8	1.0	59.3	22623
49	T.A. Seeds	TA583-28RIB	224.3*	107.6	18.7	2.5	61.2	23620
53	Pioneer	P0604AM	213.0*	102.2	18.9	0.0	60.3	23747
Mean			208.4		19.6	0.9	59.6	23996
Probability > F			0.04		<0.0001	0.28	<0.0001	0.26
LSD_{0.10}			17.1		0.82	NS	0.68	NS
CV%			7.14		6.17	155.29	1.51	6.78

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 27. Performance of mid-season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2017.

Test Entry No.	Brand/Company	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
2	Armor	909	188.0	87.3	21.7	0.0	58.9	24437
3	Armor	AXG7109	212.7	98.8	21.6	0.0	61.3	25260
4	Armor	AXG7110	218.9	101.7	21.1	0.0	59.9	23335
7	Augusta	5062	207.1	96.2	26.6	0.4	64.4	24297
9	Augusta	5162	219.9	102.1	21.9	0.0	59.8	24999
11	Augusta	1159	200.0	92.9	20.3	0.0	59.4	23426
12	Augusta	1059	208.2	96.7	21.0	1.4	58.2	23835
17	Dekalb	DKC60-69RIB	222.8	103.4	21.3	0.4	60.0	25127
18	Dekalb	DKC61-88RIB	220.2	102.2	22.2	0.4	61.0	25727
19	Dekalb	DKC62-08RIB	210.0	97.5	23.2	0.4	60.8	24834
20	Dekalb	DKC62-20RIB	217.0	100.8	23.4	0.0	61.8	24967
30	Doebler's	RPM 4917AM	224.9	104.4	21.1	0.0	59.5	24453
31	Doebler's	RPM 5018AM	219.0	101.7	21.0	0.9	57.7	23676
32	Doebler's	RPM 5125AM	221.8	103.0	23.2	0.0	59.9	25019
35	Dyna-Gro	D50VC30	234.6	109.0	23.5	0.8	61.0	26122
36	Dyna-Gro	D52VC91	206.4	95.8	23.6	0.4	62.0	24159
37	Dyna-Gro	CX17212	216.5	100.5	22.5	0.4	59.3	24487
41	Hubner	H12G624	215.0	99.9	25.8	0.0	59.4	26044
45	Syngenta	N66V-3120	221.6	102.9	21.7	0.0	59.9	23302
54	Pioneer	P1197AM	222.0	103.1	23.2	0.0	60.5	24773
Mean			215.3		22.5	0.3	60.2	24614
Probability > F			0.31		<0.0001	0.56	<0.0001	0.59
LSD_{0.10}			NS		1.6	NS	1.5	NS
CV%			8.2		8.4	245.7	2.8	6.1

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 28. Performance of full season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
5	Augusta	1564	207.4	97.5	26.2	1.4	57.3	22041
6	Augusta	5065	194.7	91.6	24.8	0.4	63.9	22340
21	Dekalb	DKC64-35RIB	224.7*	105.6	23.2	0.0	62.3	25500
22	Dekalb	DKC64-89RIB	209.2	98.4	24.5	0.0	61.8	24817
23	Dekalb	DKC65-20RIB	225.9*	106.2	27.4	0.8	62.9	24505
24	Dekalb	DKC65-94	205.7	96.7	25.1	0.0	63.2	23953
25	Dekalb	DKC66-75RIB	223.9*	105.3	25.0	0.0	61.2	25168
26	Dekalb	DKC67-44	219.9*	103.4	22.9	0.8	62.0	26143
33	Doebler's	RPM 5518AM	232.9*	109.5	26.5	0.0	61.4	24714
34	Doebler's	RPM 5818AM	201.1	94.6	23.6	0.0	62.2	22963
38	Dyna-Gro	D54VC52	214.1*	100.7	25.5	0.0	62.1	23274
42	Hubner	H4744RC2P	213.2*	100.2	25.8	0.4	62.0	25492
43	Hubner	H6663RCSS	228.8*	107.6	26.0	0.0	61.1	24987
44	Hubner	H4755RC2P	224.7*	105.7	23.8	0.0	60.0	25017
46	Syngenta	N76A-3000GT	205.7	96.7	25.6	0.4	56.9	23896
47	Syngenta	N83D-3111	222.0*	104.4	27.2	0.4	61.2	24345
50	T.A. Seeds	TA736-28RIB	211.8*	99.6	24.8	0.0	62.3	22813
51	T.A. Seeds	TA758-28RIB	191.3	90.0	25.8	0.0	62.1	24658
55	Pioneer	P1443AM	183.9	86.5	22.6	0.0	59.8	24646
Mean			212.7		25.1	0.2	61.4	24277
Probability > F			0.03		<0.0001	0.19	<0.0001	0.07
LSD_{0.10}			22.0		0.56	NS	0.85	2013
CV%			8.7		6.9	248.0	3.0	6.8

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 29. Performance of very early hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
1	Armor	303	190.4	100.6	18.1	2.1	59.5	24297
10	Augusta	3750	174.8	92.3	17.3	0.4	58.9	23105
27	Doebler's	RPM 4115AMXT	185.0	97.7	17.3	1.7	57.3	22942
28	Doebler's	RPM 4417AMXT	206.2	108.9	18.0	0.0	58.4	24006
39	Hubner	H6257RCSS	178.5	94.3	18.2	1.2	58.7	24006
52	Pioneer	P0339AM	201.5	106.4	17.7	1.3	56.3	22845
Mean			189.4		17.8	1.1	58.2	23534
Probability > F			0.23		0.73	0.80	0.001	0.32
LSD_{0.10}			NS		NS	NS	1.2	NS
CV%			7.3		2.7	163.2	2.1	4.1

¹See Table 5 for hybrid type code 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 30. Performance of early season hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
8	Augusta	1156	199.5	98.7	17.6	0.5	59.7	22919
13	Dekalb	DKC55-21RIB	194.7	96.4	18.5	1.2	58.0	23813
15	Dekalb	DKC57-99RIB	203.8*	100.9	18.1	0.9	58.5	22458
16	Dekalb	DKC58-08RIB	191.5	94.8	20.9	1.2	60.3	23522
29	Doebler's	RPM 4717AMX	188.1	93.1	20.0	2.5	59.6	23479
40	Hubner	H6349RCSS	214.0*	105.9	19.7	0.8	59.5	24297
48	T.A. Seeds	TA547-22DPRIB	201.5*	99.7	17.9	0.4	58.5	22554
49	T.A. Seeds	TA583-28RIB	206.8*	102.3	18.3	1.7	57.9	23506
53	Pioneer	P0604AM	218.6*	108.2	18.8	0.0	60.6	23619
Mean			202.0		18.9	1.0	59.2	23352
Probability > F			0.02		0.87	0.72	0.94	0.63
LSD_{0.10}			17.2		NS	NS	NS	NS
CV%			6.6		6.1	163.0	1.8	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 31. Performance of mid-season hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2017.

Test Entry No.	Brand/Company	Hybrid Name ¹	Yield (bu/A) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
2	Armor	909	197.9	92.4	19.1	0.4	57.6	24464
3	Armor	AXG7109	199.1	93.0	19.1	0.0	60.1	22845
4	Armor	AXG7110	217.1*	101.4	20.2	1.2	60.1	23813
7	Augusta	5062	217.3*	101.5	23.8	0.8	61.8	23232
9	Augusta	5162	193.7	90.5	21.9	5.0	61.6	24293
11	Augusta	1159	207.2	96.7	19.3	0.4	60.4	24587
12	Augusta	1059	207.7	97.0	19.5	1.1	58.0	24200
17	Dekalb	DKC60-69RIB	199.1	93.0	20.4	0.4	59.4	22651
18	Dekalb	DKC61-88RIB	216.9*	101.3	20.2	0.4	59.3	23813
19	Dekalb	DKC62-08RIB	224.2*	104.7	20.9	0.4	60.6	26056
20	Dekalb	DKC62-20RIB	220.4*	102.9	21.2	0.0	60.3	24103
30	Doebler's	RPM 4917AM	225.6*	105.3	21.3	2.6	59.9	23292
31	Doebler's	RPM 5018AM	233.9*	109.2	19.4	0.4	58.4	24587
32	Doebler's	RPM 5125AM	217.4*	101.5	21.1	0.0	60.0	23619
35	Dyna-Gro	D50VC30	214.6	100.2	20.5	0.0	59.8	24293
36	Dyna-Gro	D52VC91	224.1*	104.6	22.7	0.4	61.4	24394
37	Dyna-Gro	CX17212	213.0	99.4	21.4	0.4	60.0	24233
41	Hubner	H12G624	215.5*	100.6	22.4	0.4	58.7	25265
45	Syngenta	N66V-3120	212.3	99.1	20.3	1.7	59.4	22748
54	Pioneer	P1197AM	226.6*	105.8	20.0	0.0	59.7	23799
Mean			214.2		20.7	0.8	59.8	24014
Probability > F			0.002		0.18	0.47	0.56	0.83
LSD_{0.10}			19.1		NS	NS	NS	NS
CV%			7.0		6.5	278.3	2.1	6.6

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 32. Performance of full season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2017.

Test Entry No.	Brand/Company Name	Hybrid Name ¹	Yield (bu/a) ²	Relative Yield	Moisture %	Lodging ³ %	Test Weight (lb/bu) ²	Population (plants/A)
5	Augusta	1564	187.3	86.1	24.0	5.1	56.6	21006
6	Augusta	5065	216.2	99.4	22.4	2.1	62.5	23232
21	Dekalb	DKC64-35RIB	220.7	101.5	21.7	0.8	62.4	23619
22	Dekalb	DKC64-89RIB	223.0	102.5	23.0	0.4	60.5	25082
23	Dekalb	DKC65-20RIB	226.9	104.3	24.0	0.4	60.7	24974
24	Dekalb	DKC65-94	230.7	106.0	21.5	1.2	61.5	24690
25	Dekalb	DKC66-75RIB	230.7	106.1	22.2	2.0	59.5	24200
26	Dekalb	DKC67-44	215.9	99.3	22.1	3.2	61.2	25279
33	Doebler's	RPM 5518AM	236.2	108.6	22.2	0.4	58.9	25275
34	Doebler's	RPM 5818AM	224.1	103.0	23.5	2.1	60.9	22264
38	Dyna-Gro	D54VC52	212.0	97.5	22.9	1.2	61.8	22651
42	Hubner	H4744RC2P	218.7	100.5	23.9	0.8	60.7	23015
43	Hubner	H6663RCSS	240.6	110.6	24.2	0.0	61.0	25555
44	Hubner	H4755RC2P	206.9	95.1	22.4	0.0	60.6	24647
46	Syngenta	N76A-3000GT	200.6	92.2	23.6	2.8	56.1	22361
47	Syngenta	N83D-3111	208.5	95.9	24.1	0.9	59.0	22651
50	T.A. Seeds	TA736-28RIB	211.7	97.3	22.4	0.4	60.6	23659
51	T.A. Seeds	TA758-28RIB	210.0	96.6	22.9	2.0	61.9	22886
55	Pioneer	P1443AM	212.2	97.6	22.0	0.4	58.7	24280
Mean			217.5		22.9	1.4	60.3	23754
Probability > F			0.87		0.6	0.04	0.5	0.80
LSD_{0.10}			NS		NS	3.0	NS	NS
CV%			9.1		4.6	171.3	3.1	8.5

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 33. Relative yield scores for very early season hybrids evaluated in Maryland during 2017. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Entry No.	Brand/ Company Name	Hybrid	Relative Yield					
			Avg. 5 Sites	Wye	Poplar Hill	Salisbury	Clarksville	Keedysville
1	Armor	303	99.8	101.1	104.8	94.7	100.6	98.0
10	Augusta	3750	95.3	100.4	95.6	94.9	92.3	93.2
27	Doebler's	RPM 4115AMXT	99.1	101.0	94.5	100.2	97.7	102.3
28	Doebler's	RPM 4417AMXT	102.4	90.6	99.1	106.8	108.9	106.5
39	Hubner	H6257RCSS	96.3	98.5	93.6	97.8	94.3	97.2
52	Pioneer	P0339AM	107.0	107.9	112.4	105.6	106.4	102.9
Trial Mean (bu/acre)			191.1	182.6	177.8	198.8	189.4	207.1

¹ **Bold** hybrids are checks.

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 34. Relative yield scores for early season hybrids evaluated in Maryland during 2017. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Entry No.	Brand/ Company Name	Hybrid	Relative Yield					
			Avg. 5 Sites	Wye	Poplar Hill	Salisbury	Clarksville	Keedysville
8	Augusta	1156	100.2	98.5	102.2	100.5	98.7	101.0
13	Dekalb	DKC55-21RIB	100.3	106.5	100.0	103.2	96.4	95.4
15	Dekalb	DKC57-99RIB	94.3	82.3	100.8	97.8	100.9	89.8
16	Dekalb	DKC58-08RIB	99.4	101.9	93.7	100.2	94.8	106.4
29	Doebler's	RPM 4717AMX	96.6	97.4	97.2	94.8	93.1	100.5
40	Hubner	H6349RCSS	101.9	104.9	102.9	99.0	105.9	96.6
48	T.A. Seeds	TA547-22DPRIB	97.6	101.6	92.1	94.2	99.7	100.4
49	T.A. Seeds	TA583-28RIB	103.7	102.0	105.5	101.2	102.3	107.6
53	Pioneer	P0604AM	106	104.9	105.6	109.0	108.2	102.2
Trial Mean (bu/acre)			195.8	182.5	185.1	200.9	202.0	208.4

¹ **Bold** hybrids are checks.

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 35. Relative yield scores for mid-season hybrids evaluated in Maryland during 2017. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Test Entry No.	Brand/Company Name	Hybrid Name	Relative Yield %					
			Avg. 5 sites	Wye	Poplar Hill	Salisbury	Clarksville	Keedysville
2	Armor	909	90.6	90.6	90.6	92.3	92.4	87.3
3	Armor	AXG7109	98.3	98.0	97.2	104.5	93.0	98.8
4	Armor	AXG7110	99.7	95.2	97.7	102.4	101.4	101.7
7	Augusta	5062	96.7	92.1	101.3	92.6	101.5	96.2
9	Augusta	5162	97.0	103.7	95.2	93.3	90.5	102.1
11	Augusta	1159	97.6	96.7	99.1	102.4	96.7	92.9
12	Augusta	1059	96.0	95.2	98.7	92.2	97.0	96.7
17	Dekalb	DKC60-69RIB	98.8	99.4	100.8	97.2	93.0	103.4
18	Dekalb	DKC61-88RIB	102.3	102.7	104.0	101.4	101.3	102.2
19	Dekalb	DKC62-08RIB	101.2	109.3	88.9	105.4	104.7	97.5
20	Dekalb	DKC62-20RIB	101.5	101.6	102.5	99.7	102.9	100.8
30	Doebler's	RPM 4917AM	104.4	103.4	107.3	101.7	105.3	104.4
31	Doebler's	RPM 5018AM	103.9	101.9	105.0	101.6	109.2	101.7
32	Doebler's	RPM 5125AM	102.0	103.1	101.8	100.8	101.5	103.0
35	Dyna-Gro	D50VC30	102.2	101.4	99.1	101.4	100.2	109.0
36	Dyna-Gro	D52VC91	100.8	101.2	97.4	105.0	104.6	95.8
37	Dyna-Gro	CX17212	99.7	102.6	97.6	98.3	99.4	100.5
41	Hubner	H12G624	102.6	102.1	108.5	102.0	100.6	99.9
45	Syngenta	N66V-3120	100.8	101.7	101.6	98.8	99.1	102.9
54	Pioneer	P1197AM	103.9	98.5	104.9	107.1	105.8	103.1
Trial Mean (bu/acre)			210.4	205.0	200.8	216.7	214.2	215.3

¹ **Bold** hybrids are checks.

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 36. Relative yield scores for full-season hybrids evaluated in Maryland during 2016. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Test Entry No.	Brand/ Company Name	Hybrid Name	Relative Yield %					
			Avg. 5 Sites	Wye	Poplar Hill	Salisbury	Clarksville	Keedysville
5	Augusta	1564	95.0	90.8	101.2	99.6	86.1	97.5
6	Augusta	5065	94.8	94.5	97.7	90.9	99.4	91.6
21	Dekalb	DKC64-35RIB	105.3	106.4	104.5	108.5	101.5	105.6
22	Dekalb	DKC64-89RIB	99.9	100.7	99.9	97.8	102.5	98.4
23	Dekalb	DKC65-20RIB	104.3	99.8	111.2	100.0	104.3	106.2
24	Dekalb	DKC65-94	101.6	104.5	101.1	99.8	106.0	96.7
25	Dekalb	DKC66-75RIB	104.5	109.1	101.0	100.8	106.1	105.3
26	Dekalb	DKC67-44	104.1	105.8	107.0	105.0	99.3	103.4
33	Doebler's	RPM 5518AM	102.8	96.4	97.1	102.2	108.6	109.5
34	Doebler's	RPM 5818AM	102.2	104.4	106.7	102.4	103.0	94.6
38	Dyna-Gro	D54VC52	99.7	104.5	97.0	99.0	97.5	100.7
42	Hubner	H4744RC2P	103.3	105.1	106.3	104.4	100.5	100.2
43	Hubner	H6663RCSS	105.0	105.8	105.5	95.7	110.6	107.6
44	Hubner	H4755RC2P	99.7	100.1	95.6	102.0	95.1	105.7
46	Syngenta	N76A-3000GT	96.3	97.7	97.7	97.1	92.2	96.7
47	Syngenta	N83D-3111	94.6	87.4	87.4	97.8	95.9	104.4
50	T.A. Seeds	TA736-28RIB	96.5	96.6	92.7	96.5	97.3	99.6
51	T.A. Seeds	TA758-28RIB	96	98.3	95.0	100.1	96.6	90.0
55	Pioneer	P1443AM	94.5	92.5	95.4	100.5	97.6	86.5
Trial Mean (bu/acre)			212.4	207.7	206.1	218.2	217.5	212.7

¹**Bold** hybrids are checks included with funding from the Maryland Grain Producers' Utilization Board.

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.