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2016 Maryland Corn Hybrid Performance Tests

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Test Procedures

A fee-based, corn hybrid performance-testing program is offered to seed corn companies by the University of Maryland's Extension Service and Agricultural Experiment Station. 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 2016 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, the Maryland Grain Producers' Utilization Board provided funding for inclusion of check hybrids; hybrids that are commonly grown and familiar to farmers. The inclusion of the performance data for these check hybrids allows comparisons of newer hybrids with those that are familiar.

During 2016, 55 hybrids were tested using three maturity group tests: (1) early season (9 hybrids; Table 5); (2) mid-season (24 hybrids; Table 6); and (3) full season (22 hybrids; Table 7). Each company designated the maturity group assignments for hybrids they submitted. Check hybrids were included in each of the three tests. All tested hybrids had genetic traits for insect protection and/or herbicide tolerance (Tables 5-7).

Hybrids were grouped and randomized by maturity group and 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 population and number of lodged plants were counted during the same week of harvest and frequently on the same day as 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 mounted in the combine cab.

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 15.5% moisture content, harvest moisture content, per cent lodging, harvest population, and test weight (lb/bu) at 15.5% moisture content.

As seen in Table 3, growing season precipitation was above the long term averages for four of the five locations; the exception was WMREC. Highlighting the 2016 trial year was the almost daily rain that occurred between April 27 and May 14. This resulted in a nearly three-week delay in planting at Salisbury and Poplar Hill and approximately 10 days' delay for Clarksville and

Keedysville. There were two individual rain events at Salisbury that exceeded 8 inches; one in June and the other in late September.

Averaged over the five locations, yield for the early (9), mid (24), and full season (22) hybrids was 200 bu/acre, 206 bu/acre, and 204 bu/acre, respectively. Compared to 2015, these yields were ~13%, 12%, and 7% more, respectively, than was observed for the early, mid, and full season hybrids for that season. Average yield for the 55 hybrids tested across the five locations was 204 bu/acre or 7 bu/acre less than the record setting 211 bu/acre in 2014. However, 2016 was the second time in three years that average yield across the five testing locations exceeded 200 bu/acre. The primary difference between the two years was the wet May that delayed planting at all locations except the Wye which had timely planting on April 25. Averaged over the 55 hybrids tested at the Wye yield there (232 bu/a) eclipsed the previous single location record of 225 bu/a that was observed at Clarksville during 2014.

A least significant difference (LSD) value is reported for the variables measured for each test where statistically significant differences ($p \leq 0.05$ generally) for a variable were observed among hybrids. The mean separation value has been calculated at the 5 percent probability level ($LSD_{0.05}$). 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 95% certainty that the difference is real rather than due to random variability. The coefficient of variation (CV) is a measurement of the level of 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 to grow on your farm based solely on its 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 specific hybrid at a location to the mean yield of all the hybrids at that location expressed in percentage. A hybrid that has a relative yield score consistently greater than 100 across all testing locations is considered to have excellent stability. Four hybrids met this gold standard for stability, the early season entry Pioneer brand 0604 AM; the mid-season hybrid Dekalb brand DKC62-08; and the full season hybrids T.A. Seeds brand TA767-22DPRIB and Hubner brand H14G153. Eleven hybrids (one early season; seven mid-season; and three full season) had relative yield scores greater than 100 at 4-5 locations and are considered to have good stability. Those hybrids are highlighted in light and dark gray in Tables 26-28.

Acknowledgments

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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.

Table 1. Production management practices used and other pertinent information for the locations of the 2016 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	**25 April:** 275 lb/a as 11-18-18-8 S **10 June:** 150 lb N and 40 lb S/a as 30-0-0-9 **Total:** **180-50-50-62 S**	**19 April Pre-Plant** Glyphosate 41 @ 1 qt/a **11 June Post-Emerge** Glyphosate 41 @ 1.5 qt/a Rifle (Dicamba) 1 pt/a **No Insecticide**	No-till with aid of trash wheels on planter	**Plant** 25 April **Harvest** 14 September Early/Mid-Season Tests 23 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	**6 April:** 276 lb/a 7-00-39-8S **16 May:** 135 lb/a as 08-20-00-0.1B-0.2Zn **9 June:** 140 lb N/a as 30% UAN **Total:** **170-27-108-47S-1.3 B-2.7Zn**	**14 April Pre-Plant** Gramoxone SL @ 1.5 pt/A Aatrex90 @ 8 oz/A 820 Surfactant @ 8 fl oz/A **16 May Pre-Emerge** Lexar @ 3 qt/A **No Insecticide**	No-till into cover crop with aid of trash wheels on planter	**Plant** 16 May **Harvest** 5 October	David Armentrout Fred Senkbeil
Lower Eastern Shore R&E Center-Salisbury Salisbury, MD	Fort Mott loamy sand Soybean followed by wheat cover crop	**5 April:** 276 lb/a 7-00-39-8S **16 May:** 155.7 lb/a as 08-20-00-0.1B-0.2Zn **2 June:** 100 lb N/a as 30% UAN **8 June:** 100 lb N/a as 30% UAN **Total:** **232-31-108-47S-1.6B-3.1Zn**	**13 April Pre-Plant** Gramoxone SL @ 1.5 pt/A Aatrex90 @ 8 oz/A 820 Surfactant @ 5 fl oz/A **16 May Pre-Emerge** Lexar @ 3 qt/A **No Insecticide**	No-till into cover crop with aid of trash wheels on planter	**Plant** 16 May **Harvest** 6 October	David Armentrout James Lynch Vivian Calder David Long Robert Miller
Central Maryland R&E Center - Clarksville Clarksville, MD	Delanco silt loam Soybean	**19 April** 225 lb/a 4-12-36-11S **26 May** 130 lb N/a as 30% UAN **27 June** 40 lb N/a as 30% UAN **Total:** **179-27-81-25S**	**26 May Pre-Emerge** Bicep II Mag @ 2 qt/acre Gramoxone S.L. 2.0 @ 1.5 pt/acre 80/20 Surfactant @ 1 pt/acre **27 June Post-Emerge** Status @ 4 oz/acre Accent Q @ 0.25 oz/acre	No-till with aid of trash wheels on planter	**Plant** 25 May **Harvest** 18 October	Mike Dwyer David Justice Michael Gray
Western Maryland R&E Center Keedysville, MD	Hagerstown silt loam Soybean	**27 April:** 176 lb/a 6-28-28 **13 May:** 130 lb N/a as 30% UAN **Total:** **140-50-50**	**14 May Pre-Plant** Lumax @ 3 qt/a Weedone.LV4 @1 pt/a Gramoxone Inteon @1 qt/a **No Post-Emerge Herbicide** **No Insecticide**	No-till with aid of trash wheels on planter	**Plant** 26 May **Harvest** 19 October	Ryan McDonald Douglas Price David Wyand

Table 2. Brands and companies represented in the 2016 Maryland corn hybrid tests.

Brand	Address
Augusta	Augusta Seed Corporation, P.O. Box 899, Staunton, VA 24401
DeKalb	Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63167
Doebler's	Doebler's PA Hybrids, Inc., 202 Tiadaghton Ave., Jersey Shore, PA 17740
Dyna-Gro	Crop Production Services/Dyna-Gro, 1140 Sweet Road, East Aurora, NY 14052
Hubner Seed	Hubner Seed Company, 10280 West State Road 28, West Lebanon, IN 47991
Mycogen	Mycogen Seeds, 9330 Zionsville Rd., Indianapolis, IN 46268
NK	Syngenta, 11055 Wayzata Blvd., Minnetonka, MN 55305
Pioneer	Pioneer Hi-bred International, Inc., PO Box 14453, Des Moines, IA 50306
RPM®	Doebler's PA Hybrids, Inc., 202 Tiadaghton Ave., Jersey Shore, PA 17740
T.A. Seeds	T.A. Seeds LLC., PO Box 300, Avis, PA 17721

Table 3. Precipitation received at each location where the Maryland corn hybrid tests were conducted during 2016.

Month	Wye	Poplar Hill	Salisbury[1]	Keedysville	Clarksville
	----------Inches----------				
April	1.57	4.95	3.53 (0.0)	0.68	2.22
May	7.78	4.6	5.35 (0.0)	3.51	6.49
June	3.97	6.0	10.31 (1.2)	2.17	3.53
July	6.93	6.85	2.62 (1.8)	5.08	8.91
August	4.63	3.5	4.98 (0.9)	2.72	3.96
September	6.18	8.65	11.93 (0.0)	2.30	2.89
2016 Total (6 month)	**31.06**	**34.55**	**38.72 (3.9)**	**19.46**	**28.00**
Long Term Average	***22.63***	***22.32***	***25.00***	***21.4***	***24.16***

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

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

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 *Bacillus thuringiensis* (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.
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 *Bacillus thuringiensis* (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 early-season hybrids tested in Maryland during 2016.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta	A 1108	107	VT2 PRO	Cruiser 250
Dekalb	DKC52-30RIB	102	GENSSRIB	A500/Votivo
Dekalb	DKC55-20RIB	105	GENSSRIB	A500/Votivo
Dekalb	DKC56-03RIB	106	GENSSRIB	A500/Votivo
Dekalb	**DKC57-92RIB**	**107**	**GENSSRIB**	**A500/Votivo**
Doeblers®	RPM® 4717AMX™	107	AcreMax Xtra	Poncho1250/Votivo
NK	**N60F-3111**	**107**	**BT, RR, LL, RW**	**Avicta 500+Vib**
Pioneer	**P0604 AM**	**106**	**AM, LL, RR2**	**PPST 250**
T.A. Seeds	TA547-22DPRIB	104	VT2PRIB	CruiserMax 250

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

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

Table 6. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in Maryland during 2016.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta	A 1564	112	GTCBLL	Cruiser 250
Augusta	A 5063	112	VT2 PRO	Cruiser 250
Dekalb	DKC58-06RIB	108	GENSSRIB	A500/Votivo
Dekalb	DKC60-67RIB	110	GENSSRIB	A500/Votivo
Dekalb	DKC61-88RIB	111	GENVT3PRIB	A500/Votivo
Dekalb	**DKC62-08RIB**	**112**	**GENSSRIB**	**A500/Votivo**
Dekalb	DKC62-05	112	RR2	A500/Votivo
Dekalb	DKC62-08	112	SS	A500/Votivo
Doeblers®	RPM® 4917AM™	109	AcreMax Above	Poncho1250/Votivo
Doeblers®	RPM® 5015AM™	110	AcreMax Above	Poncho1250/Votivo
Doeblers®	RPM® 5125AM™	111	AcreMax Above	Poncho1250/Votivo
Dyna-Gro	CX16110	110	VT2 PRO	Ponch500/Votivo
Dyna-Gro	D49VC39	109	VT2 PRO	Ponch500/Votivo
Dyna-Gro	D52VC91	112	VT2 PRO	Ponch500/Votivo
Hubner	H12G703	112	VT2PDG RIB	Poncho500/Votivo
Hubner	H6624RCSS	112	SStax RIB	Poncho500/Votivo
Mycogen	MY10Z28 RA	110	SSX, LL, RR2	CruiserMax 500
NK	N59B-3111A	108	BT, RR, LL, RW	Avicta 500+Vib
NK	N66V-3000GT	109	BT, RR, LL, RW	Avicta 500+Vib
NK	N68K-3111A	111	BT, RR, LL, RW	Avicta 500+Vib
NK	N69D-3000GT	112	BT, RR, LL, RW	Avicta 500+Vib+TEB
NK	**N70J-3111A**	**112**	**BT, RR, LL, RW**	**Avicta 500+Vib**
Pioneer	**P1197 AMXT**	**111**	**AMXT, LL, RR2**	**PPST 250**
T.A. Seeds	TA583-22DPRIB	108	VT2PRIB	CruiserMax 250

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

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

Table 7. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in Maryland during 2016.

Brand/ Company Name	Hybrid Name	Relative Maturity	Genetic Traits[1]	Seed Treatment
Augusta	A 1565	115	GTCBLL	Cruiser 250
Augusta	A 6465	115	VT2 PRO	Cruiser 250
Dekalb	DKC63-33RIB	113	GENSSRIB	A500/Votivo
Dekalb	DKC63-60RIB	113	GENSSRIB	A500/Votivo
Dekalb	DKC63-71RIB	113	GENSSRIB	A500/Votivo
Dekalb	**DKC64-87RIB**	**114**	**GENSSRIB**	**A500/Votivo**
Dekalb	DKC65-19RIB	115	GENVT3PRIB	A500/Votivo
Dekalb	DKC65-71RIB	115	GENDGVT2P	A500/Votivo
Doeblers®	5615GRQ™	116	3000GT	Poncho1250/Votivo
Doeblers®	RPM® 5315AM™	113	AcreMax Above	Poncho1250/Votivo
Dyna-Gro	D54VC52	114	VT2 PRO	Ponch500/Votivo
Hubner	H14G153	114	VT2PDG RIB	Poncho500/Votivo
Hubner	H4744RC2P	113	VT2P RIB	Poncho500/Votivo
Hubner	H6663RCSS	113	SStax RIB	Poncho500/Votivo
Mycogen	2C799	113	SSX, LL, RR2	CruiserMax 500
Mycogen	MY13M87 RA	113	SSX, LL, RR2	CruiserMax 502
NK	N74L-3010	114	BT, RR, LL	Avicta 500+Vib
NK	**N74R-3122**	**114**	**BT, RR, LL, RW**	**Avicta 500+Vib**
NK	N83D-3000GT	118	BT, RR, LL, RW	Avicta 500+Vib
Pioneer	**P1498**	**114**	**RR**	**PPST 250**
T.A. Seeds	TA736-22DPRIB	113	VT2PRIB	CruiserMax 250
T.A. Seeds	TA767-22DPRIB	116	VT2PRIB	CruiserMax 250

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

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

Table 8. Performance of early maturity hybrids evaluated at five Maryland locations during 2016.

Entry No.	Brand/Company Name	Hybrid Name[1]	Yield (bu/A)[2]	Relative Yield	Moisture %	Lodging[3] %	Test Weight (lb/bu)[2]	Harvest Population (plants/A)
42	**Pioneer[4]**	**P0604 AM**	**208.0**	**104.2**	**18.1**	**1.2**	**54.2**	**27881**
20	**Dekalb[4]**	**DKC57-92RIB**	**206.5**	**103.4**	**19.4**	**1.1**	**53.8**	**28258**
11	Dekalb	DKC56-03RIB	204.9	102.6	19.2	0.9	54.1	28748
51	**NK[4]**	**N60F-3111**	**198.5**	**99.4**	**20.3**	**1.5**	**53.5**	**28823**
23	Augusta	A 1108	198.4	99.4	20.0	2.4	52.4	27806
5	T.A. Seeds	TA547-22DPRIB	197.1	98.8	18.6	1.9	52.9	27534
9	Dekalb	DKC52-30RIB	197.0	98.7	17.9	1.2	52.7	28522
10	Dekalb	DKC55-20RIB	193.9	97.2	18.7	0.4	53.1	28823
36	Doeblers®	RPM® 4717AMX™	192.4	96.4	19.4	0.4	53.7	27881
Mean			**199.6**		**19.1**	**1.2**	**53.4**	**28253**
Probability > F			**0.123**		**<0.0001**	**0.54**	**<0.0001**	**0.11**
$LSD_{0.05}$			**NS**		**0.52**	**NS**	**0.70**	**NS**
CV%			**8.12**		**5.04**	**219**	**1.80**	**5.17**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (p=0.05) compared to the top-yielding hybrid.

Table 9. Performance of mid-season maturity hybrids evaluated at five Maryland locations during 2016.

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)
55	Dekalb	DKC 62-05	221.4	107.3	21.0	1.3	54.8	29049
54	Dekalb	DKC 62-08	219.9*	106.5	20.0	1.0	53.5	29238
14	Dekalb	DKC61-88RIB	216.1*	104.7	20.5	1.2	53.8	28371
26	Augusta	A 5063	215.1*	104.2	23.2	0.7	55.1	26600
37	Doeblers®	RPM® 4917AM™	213.6*	103.5	21.0	0.7	54.4	28409
25	Augusta	A 1564	213.3*	103.3	21.8	0.4	51.7	28522
2	Dyna-Gro	CX16110	212.4*	102.9	20.7	0.4	54.4	28522
3	Dyna-Gro	D52VC91	211.0*	102.2	21.2	1.9	56.3	28447
28	Hubner	H6624RCSS	211.0*	102.2	22.3	0.8	54.8	30142
29	Hubner	H12G703	210.9*	102.2	21.8	0.6	55.0	28436
43	**Pioneer[4]**	**P1197 AM**	**210.3***	**101.9**	**19.8**	**0.1**	**53.4**	**28207**
52	**NK[4]**	**N70J-3111A**	**206.9**	**100.2**	**22.5**	**0.6**	**54.2**	**29351**
21	**Dekalb[4]**	**DKC62-08RIB**	**206.5**	**100.0**	**20.7**	**2.5**	**53.9**	**27737**
46	NK	N66V-3000GT	204.9	99.3	20.4	1.2	52.9	27881
6	T.A. Seeds	TA583-22DPRIB	202.6	98.1	18.7	0.6	52.7	26073
1	Dyna-Gro	D49VC39	201.8	97.8	19.8	1.9	52.6	28258
38	Doeblers®	RPM® 5015AM™	201.4	97.6	20.6	0.7	53.7	27580
39	Doeblers®	RPM® 5125AM™	200.9	97.3	19.2	0.2	53.3	28032
13	Dekalb	DKC60-67RIB	200.3	97.1	19.9	0.5	54.7	28296
47	NK	N68K-3111A	197.8	95.8	20.6	2.0	51.5	28032
34	Mycogen	MY10Z28RA	197.5	95.7	21.7	0.8	52.0	28107
45	NK	N59B-3111A	196.1	95.0	21.8	1.1	53.5	28522
12	Dekalb	DKC58-06RIB	192.0	93.0	21.0	1.4	54.1	28447
48	NK	N69D-3000GT	188.8	91.5	21.1	0.4	53.3	28635
Trial Mean			**206.4**		**20.9**	**0.95**	**53.7**	**28287**
Probability > F			**<0.0001**		**<0.0001**	**0.39**	**<0.0001**	**<0.0001**
$LSD_{0.05}$			**13.3**		**0.72**	**NS**	**0.51**	**1207**
CV%			**8.95**		**4.79**	**242**	**1.33**	**5.93**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (p=0.05) compared to the top-yielding hybrid.

Table 10. Performance of full season hybrids evaluated at five Maryland during 2016.

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	T.A. Seeds	TA767-22DPRIB	220.1	108.1	22.2	0.8	53.4	30368
31	Hubner	H4744RC2P	217.4*	106.7	21.2	0.7	55.4	28861
32	Hubner	H14G153	215.4*	105.8	23.1	0.5	54.1	28145
30	Hubner	H6663RCSS	212.9*	104.5	22.5	0.5	54.7	27994
24	Augusta	A 6465	212.5*	104.3	23.6	0.7	54.5	27957
18	Dekalb	DKC65-19RIB	209.5*	102.9	22.2	0.9	56.3	28221
19	Dekalb	DKC65-71RIB	209.4*	102.8	22.2	0.5	56.1	27806
4	Dyna-Gro	D54VC52	205.8	101.0	21.7	0.4	55.0	26939
27	Augusta	A 1565	205.3	100.8	22.5	0.6	53.1	26261
50	NK	N83D-3000GT	205.2	100.7	24.5	1.6	55.3	28070
16	Dekalb	DKC63-60RIB	201.5	98.9	21.1	0.4	54.7	28635
41	Doeblers®	5615GRQ™	200.7	98.5	22.4	0.9	53.4	30255
17	Dekalb	DKC63-71RIB	200.4	98.4	21.2	0.3	55.1	28786
35	Mycogen	MY13M87RA	200.2	98.3	22.6	0.4	54.7	28484
22	**Dekalb[4]**	**DKC64-87RIB**	**198.3**	**97.4**	**21.5**	**0.1**	**54.5**	**28447**
33	Mycogen	2C799	198.0	97.2	21.7	0.5	53.5	29087
15	Dekalb	DKC63-33RIB	196.5	96.5	20.0	0.4	54.8	28861
44	**Pioneer[4]**	**P1498 AM**	**196.5**	**96.5**	**19.8**	**1.1**	**54.8**	**28107**
7	T.A. Seeds	TA736-22DPRIB	196.3	96.4	21.6	0.1	55.0	26864
40	Doeblers®	RPM® 5315AM™	196.1	96.3	21.2	1.0	53.7	29502
53	**NK[4]**	**N74R-3122**	**194.0**	**95.2**	**23.2**	**0.9**	**54.1**	**26670**
49	NK	N74L-3010	189.1	92.8	19.4	1.2	50.6	27467
Trial Mean			**203.7**		**21.9**	**0.65**	**54.4**	**28263**
Probability > F			**<0.0001**		**<0.0001**	**0.28**	**<0.0001**	**<0.0001**
$LSD_{0.05}$			**13.4**		**0.34**	**NS**	**0.64**	**1555**
CV%			**9.14**		**4.51**	**195**	**1.63**	**7.64**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (p=0.05) compared to the top-yielding hybrid.

Table 11. Performance of early maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2016.

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)
20	**Dekalb[4]**	**DKC57-92RIB**	**247.6**	**108.2**	**20.5**	**0.6**	**53.7**	**30142**
23	Augusta	A 1108	237.6	103.9	21.5	0.6	52.3	29577
42	**Pioneer[4]**	**P0604 AM**	**233.5**	**102.1**	**21.4**	**1.2**	**54.2**	**29012**
51	**NK[4]**	**N60F-3111**	**230.0**	**100.6**	**20.3**	**0.0**	**53.7**	**31084**
11	Dekalb	DKC56-03RIB	228.5	99.9	20.6	1.2	54.1	29954
36	Doeblers®	RPM® 4717AMX™	224.7	98.2	19.0	0.0	53.8	31272
9	Dekalb	DKC52-30RIB	220.8	96.5	18.6	0.7	52.9	30330
10	Dekalb	DKC55-20RIB	218.6	95.6	20.0	0.0	53.9	28635
5	T.A. Seeds	TA547-22DPRIB	217.3	95.0	22.0	0.0	53.7	29723
Mean			**228.7**		**20.4**	**0.5**	**53.6**	**29970**
Probability > F			**0.093**		**0.018**	**0.58**	**0.015**	**0.73**
$LSD_{0.05}$			**NS**		**1.82**	**NS**	**0.98**	**NS**
CV%			**5.07**		**5.15**	**201**	**1.05**	**6.25**

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

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

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

[4]Hybrids (**bold)** are included as checks with funding from the Maryland Grain Producers' Utilization Board.

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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)
55	Dekalb	DKC 62-05	259.9	112.1	23.9	0.0	55.9	31084
26	Augusta	A 5063	255.6*	110.2	27.3	0.0	56.8	31084
2	Dyna-Gro	CX16110	248.4*	107.1	25.2	0.0	55.3	32214
54	Dekalb	DKC 62-08	248.0*	107.0	23.0	0.6	54.8	31461
14	Dekalb	DKC61-88RIB	242.8*	104.7	23.8	1.2	54.5	30896
3	Dyna-Gro	D52VC91	241.8*	104.3	24.5	0.6	57.1	32026
43	**Pioneer[4]**	**P1197 AM**	**239.2**	**103.2**	**20.7**	**0.0**	**54.1**	**29697**
37	Doeblers®	RPM® 4917AM™	238.5	102.9	20.9	0.0	54.8	31084
25	Augusta	A 1564	237.4	102.4	22.5	0.7	52.3	29577
1	Dyna-Gro	D49VC39	234.2	101.0	20.7	0.6	52.2	31838
46	NK	N66V-3000GT	232.5	100.3	23.8	0.0	54.0	29577
38	Doeblers®	RPM® 5015AM™	229.9	99.2	22.2	1.3	54.5	29577
13	Dekalb	DKC60-67RIB	228.8	98.7	22.7	0.0	55.6	31272
28	Hubner	H6624RCSS	228.3	98.5	23.6	0.0	55.4	31272
39	Doeblers®	RPM® 5125AM™	227.7	98.2	21.2	0.0	53.3	29765
21	**Dekalb[4]**	**DKC62-08RIB**	**227.0**	**97.9**	**22.8**	**2.6**	**54.8**	**30707**
47	NK	N68K-3111A	223.5	96.4	21.5	0.0	51.2	31272
29	Hubner	H12G703	223.0	96.2	24.1	0.6	55.5	29577
48	NK	N69D-3000GT	222.4	95.9	24.0	0.0	53.5	29389
52	**NK[4]**	**N70J-3111A**	**221.8**	**95.7**	**25.7**	**1.2**	**54.7**	**31649**
45	NK	N59B-3111A	218.6	94.3	22.9	0.0	53.3	29200
6	T.A. Seeds	TA583-22DPRIB	217.0	93.6	20.6	0.6	53.3	29577
34	Mycogen	MY10Z28RA	215.3	92.9	25.1	0.6	52.8	29577
12	Dekalb	DKC58-06RIB	203.2	87.6	22.3	4.3	53.9	31084
Trial Mean			**231.9**		**23.1**	**0.6**	**54.3**	**30602**
Probability > F			**<0.0001**		**<0.0001**	**0.69**	**<0.0001**	**0.13**
$LSD_{0.05}$			**19.8**		**2.36**	**NS[5]**	**0.93**	**NS**
CV%			**5.19**		**6.22**	**310**	**1.04**	**4.52**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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)
31	Hubner	H4744RC2P	264.6	113.5	21.2	0.0	55.8	32026
19	Dekalb	DKC65-71RIB	257.3*	110.4	22.3	0.6	57.1	31084
8	T.A. Seeds	TA767-22DPRIB	251.5*	107.9	23.6	0.0	53.0	33533
24	Augusta	A 6465	245.7*	105.4	22.7	0.0	53.9	29765
18	Dekalb	DKC65-19RIB	241.8	103.7	21.5	0.0	57.3	31084
15	Dekalb	DKC63-33RIB	239.7	102.8	19.7	0.0	55.5	31461
50	NK	N83D-3000GT	238.5	102.3	24.5	0.0	55.2	30142
32	Hubner	H14G153	236.8	101.6	22.7	0.6	54.1	30896
40	Doeblers®	RPM® 5315AM™	235.6	101.0	19.4	1.1	53.8	31461
4	Dyna-Gro	D54VC52	235.4	101.0	21.4	0.0	55.3	29389
30	Hubner	H6663RCSS	229.6	98.5	21.4	0.0	54.9	30142
16	Dekalb	DKC63-60RIB	229.3	98.3	20.9	0.0	51.8	30330
17	Dekalb	DKC63-71RIB	227.5	97.6	21.1	0.0	55.5	31084
27	Augusta	A 1565	227.4	97.5	21.9	0.0	53.9	27693
41	Doeblers®	5615GRQ™	227.4	97.5	22.5	0.0	53.5	29577
22	**Dekalb[4]**	**DKC64-87RIB**	**227.1**	**97.4**	**21.4**	**0.0**	**55.0**	**31084**
44	**Pioneer[4]**	**P1498 AM**	**225.5**	**96.7**	**20.1**	**0.6**	**55.3**	**30142**
33	Mycogen	2C799	223.5	95.8	21.0	0.0	53.7	30330
35	Mycogen	MY13M87RA	223.2	95.7	23.0	0.0	55.4	29765
53	**NK[4]**	**N74R-3122**	**221.0**	**94.8**	**23.4**	**0.8**	**53.9**	**27852**
49	NK	N74L-3010	218.4	93.7	18.8	0.0	51.8	29577
7	T.A. Seeds	TA736-22DPRIB	202.5	86.9	19.9	0.0	54.9	27316
Trial Mean			**233.2**		**21.6**	**0.2**	**54.6**	**30261**
Probability > F			**0.0007**		**<0.0001**	**0.65**	**<0.0001**	**0.052**
$LSD_{0.05}$			**22.0**		**1.9**	**NS[5]**	**1.73**	**3048**
CV%			**5.73**		**5.35**	**372**	**1.93**	**6.11**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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)
11	Dekalb	DKC56-03RIB	199.0	107.0	20.6	0.7	53.6	25056
20	**Dekalb**	**DKC57-92RIB**	**195.6**	**105.2**	**22.1**	**1.6**	**54.8**	**23925**
42	**Pioneer**	**P0604 AM**	**193.9**	**104.2**	**18.8**	**2.1**	**55.1**	**26186**
51	**NK**	**N60F-3111**	**192.4**	**103.4**	**22.5**	**0.7**	**53.9**	**25432**
9	Dekalb	DKC52-30RIB	186.2	100.1	19.3	0.0	53.0	25056
23	Augusta	A 1108	185.1	99.5	20.6	2.6	51.5	22418
10	Dekalb	DKC55-20RIB	183.4	98.6	20.4	0.0	53.8	25244
36	Doeblers®	RPM® 4717AMX™	178.9	96.2	20.5	1.6	53.5	23360
5	T.A. Seeds	TA547-22DPRIB	159.7	85.8	19.2	1.1	52.5	19969
Trial Mean			**186.0**		**20.4**	**1.15**	**53.5**	**24072**
Probability > F			**0.19**		**0.0315**	**0.23**	**0.063**	**0.01**
$LSD_{0.05}$			**NS**		**2.2**	**NS**	**NS**	**2943**
CV%			**8.62**		**6.2**	**110**	**2.28**	**7.06**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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)
37	Doeblers®	RPM® 4917AM™	238.4	122.9	23.1	0.7	54.3	24490
25	Augusta	A 1564	219.8*	113.3	22.9	0.7	51.9	26939
54	Dekalb	DKC 62-08	210.9*	108.8	20.2	3.1	52.6	25809
14	Dekalb	DKC61-88RIB	208.2	107.4	20.8	1.0	53.1	22607
46	NK	N66V-3000GT	205.2	105.8	21.0	0.0	52.4	24679
28	Hubner	H6624RCSS	203.8	105.1	23.0	1.3	54.3	28070
29	Hubner	H12G703	202.7	104.5	22.7	1.6	55.3	24379
1	Dyna-Gro	D49VC39	199.5	102.9	20.6	0.0	51.1	24114
43	**Pioneer**	**P1197 AM**	**199.5**	**102.9**	**20.6**	**0.0**	**53.2**	**23737**
6	T.A. Seeds	TA583-22DPRIB	199.4	102.8	20.3	0.0	53.2	21665
45	NK	N59B-3111A	197.7	102.0	23.3	0.7	53.2	26939
47	NK	N68K-3111A	196.1	101.1	22.5	2.3	52.2	24114
52	**NK**	**N70J-3111A**	**194.8**	**100.4**	**23.2**	**0.7**	**54.4**	**25809**
26	Augusta	A 5063	190.4	98.2	22.8	1.1	54.0	20158
55	Dekalb	DKC 62-05	189.1	97.5	21.1	1.4	54.4	25056
13	Dekalb	DKC60-67RIB	187.6	96.7	20.5	1.0	54.0	24867
3	Dyna-Gro	D52VC91	184.6	95.2	22.0	3.8	56.5	19781
21	**Dekalb**	**DKC62-08RIB**	**183.7**	**94.7**	**20.9**	**0.0**	**52.4**	**21132**
39	Doeblers®	RPM® 5125AM™	181.7	93.7	20.4	0.8	53.2	24114
2	Dyna-Gro	CX16110	178.3	91.9	21.3	0.0	54.2	21476
48	NK	N69D-3000GT	177.0	91.3	22.0	0.0	53.0	25621
34	Mycogen	MY10Z28RA	173.6	89.5	23.1	0.0	50.4	24302
38	Doeblers®	RPM® 5015AM™	167.4	86.3	22.2	0.9	53.1	22230
12	Dekalb	DKC58-06RIB	164.8	85.0	22.8	0.0	54.2	22041
Trial Mean			**193.9**		**21.8**	**0.88**	**53.4**	**23922**
Probability > F			**0.0069**		**<0.0001**	**0.58**	**<0.0001**	**0.013**
$LSD_{0.05}$			**28.8**		**1.5**	**NS**	**1.3**	**4178**
CV%			**9.05**		**4.27**	**211**	**1.81**	**10.63**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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)
31	Hubner	H4744RC2P	226.8	116.7	22.0	0.0	54.1	25244
24	Augusta	A 6465	219.9*	113.2	25.0	1.5	54.2	25809
32	Hubner	H14G153	214.9*	110.6	24.2	0.0	53.8	25056
40	Doeblers®	RPM® 5315AM™	209.2*	107.6	23.2	2.4	53.2	25998
50	NK	N83D-3000GT	206.1*	106.0	27.9	1.5	56.0	24679
15	Dekalb	DKC63-33RIB	199.6	102.7	22.5	0.0	54.2	25056
18	Dekalb	DKC65-19RIB	198.6	102.2	23.2	2.4	55.1	22795
8	T.A. Seeds	TA767-22DPRIB	198.3	102.0	23.4	0.8	53.7	23925
19	Dekalb	DKC65-71RIB	198.1	102.0	22.1	0.7	55.0	23360
4	Dyna-Gro	D54VC52	196.9	101.3	23.6	0.7	54.8	22607
27	Augusta	A 1565	196.4	101.0	23.5	0.8	53.3	20158
41	Doeblers®	5615GRQ™	195.2	100.4	23.5	2.3	53.0	25621
30	Hubner	H6663RCSS	190.9	98.2	24.2	0.0	54.3	21665
7	T.A. Seeds	TA736-22DPRIB	188.0	96.8	23.7	0.0	55.4	20534
16	Dekalb	DKC63-60RIB	187.3	96.4	22.7	0.7	54.6	25056
35	Mycogen	MY13M87RA	184.9	95.1	25.0	0.0	54.9	24302
44	**Pioneer**	**P1498 AM**	**183.8**	**94.6**	**20.8**	**1.5**	**54.8**	**24867**
33	Mycogen	2C799	183.0	94.2	23.0	0.0	52.8	24867
49	NK	N74L-3010	182.8	94.0	21.7	3.1	49.9	23360
22	**Dekalb**	**DKC64-87RIB**	**181.9**	**93.6**	**22.6**	**0.0**	**53.7**	**22607**
17	Dekalb	DKC63-71RIB	180.0	92.6	21.9	0.8	53.9	23548
53	**NK**	**N74R-3122**	**153.2**	**78.8**	**24.9**	**0.0**	**54.0**	**20723**
Trial Mean			**194.3**		**23.4**	**0.87**	**54.0**	**23720**
Probability > F			**0.0002**		**<0.0001**	**0.23**	**<0.0001**	**0.004**
$LSD_{0.05}$			**23.9**		**1.7**	**NS**	**1.4**	**3104**
CV%			**7.45**		**4.34**	**168**	**1.62**	**7.94**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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)
42	**Pioneer**	**P0604 AM**	**203.8**	**108.9**	**19.2**	**0.0**	**53.8**	**29389**
9	Dekalb	DKC52-30RIB	199.7	106.7	21.9	0.0	53.3	29389
11	Dekalb	DKC56-03RIB	198.1	105.8	22.2	0.0	54.3	28823
5	T.A. Seeds	TA547-22DPRIB	190.9	102.0	20.0	0.7	52.6	27881
20	**Dekalb**	**DKC57-92RIB**	**185.8**	**99.2**	**23.1**	**0.0**	**54.1**	**28823**
36	Doeblers®	RPM® 4717AMX™	185.4	99.0	24.0	0.0	53.9	27881
23	Augusta	A 1108	177.2	94.6	21.1	0.0	51.5	29012
51	**NK**	**N60F-3111**	**172.5**	**92.1**	**23.4**	**1.3**	**53.0**	**29389**
10	Dekalb	DKC55-20RIB	171.5	91.6	20.8	0.7	52.6	28823
Mean			**187.2**		**21.7**	**0.3**	**53.3**	**28823**
Probability > F			**0.56**		**<0.0001**	**0.61**	**0.12**	**0.58**
$LSD_{0.05}$			**NS**		**1.3**	**NS**	**NS**	**NS**
CV%			**11.8**		**3.49**	**310**	**2.1**	**3.85**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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)
55	Dekalb	DKC 62-05	217.3	114.3	21.2	0.0	53.8	30707
13	Dekalb	DKC60-67RIB	206.3	108.5	22.6	0.0	54.7	29765
34	Mycogen	MY10Z28RA	204.6	107.6	23.7	0.0	51.9	30330
2	Dyna-Gro	CX16110	203.0	106.8	22.2	0.0	54.7	29954
6	T.A. Seeds	TA583-22DPRIB	202.7	106.6	19.8	0.0	52.4	27316
54	Dekalb	DKC 62-08	200.2	105.3	20.5	0.0	52.2	30330
14	Dekalb	DKC61-88RIB	199.6	105.0	22.4	0.0	54.1	29200
29	Hubner	H12G703	196.2	103.2	23.2	0.0	54.6	28070
52	**NK**	**N70J-3111A**	**194.8**	**102.5**	**22.7**	**0.0**	**52.5**	**29577**
21	**Dekalb**	**DKC62-08RIB**	**194.7**	**102.4**	**20.4**	**0.0**	**52.2**	**29765**
38	Doeblers®	RPM® 5015AM™	194.3	102.2	23.5	0.0	53.8	29200
47	NK	N68K-3111A	193.7	101.9	21.6	0.0	50.9	28635
25	Augusta	A 1564	192.9	101.4	24.7	0.0	52.4	28635
26	Augusta	A 5063	192.1	101.0	23.4	0.0	54.5	28258
1	Dyna-Gro	D49VC39	190.1	100.0	21.8	0.0	52.4	29389
39	Doeblers®	RPM® 5125AM™	183.9	96.7	22.1	0.0	53.2	28823
3	Dyna-Gro	D52VC91	183.6	96.5	22.1	0.0	55.8	30519
45	NK	N59B-3111A	181.5	95.5	23.8	0.0	53.5	29954
12	Dekalb	DKC58-06RIB	180.5	94.9	23.2	0.0	53.8	30142
37	Doeblers®	RPM® 4917AM™	179.7	94.5	25.1	0.0	55.1	30519
43	**Pioneer**	**P1197 AM**	**175.3**	**92.2**	**23.2**	**0.0**	**53.3**	**29389**
46	NK	N66V-3000GT	171.3	90.1	22.8	0.6	51.0	29577
28	Hubner	H6624RCSS	170.4	89.6	25.1	0.0	55.5	30142
48	NK	N69D-3000GT	154.9	81.4	23.5	0.0	52.4	29577
Trial Mean			**190.1**		**22.7**	**0.03**	**53.4**	**29491**
Probability > F			**0.47**		**<0.0001**	**0.48**	**<0.0001**	**0.02**
$LSD_{0.05}$			**NS**		**1.3**	**NS**	**1.2**	**1709**
CV%			**12.52**		**3.53**	**849**	**1.4**	**3.53**

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

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

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

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

*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 2016.

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)
31	Hubner	H4744RC2P	217.7	115.6	22.3	0.6	55.4	28635
30	Hubner	H6663RCSS	217.3	115.4	26.5	0.0	56.0	29012
8	T.A. Seeds	TA767-22DPRIB	214.1	113.7	23.1	0.0	53.3	31084
27	Augusta	A 1565	209.5	111.2	24.4	0.0	53.1	28447
32	Hubner	H14G153	200.7	106.5	25.6	0.0	54.7	29200
35	Mycogen	MY13M87RA	199.0	105.6	25.0	0.0	54.6	29577
15	Dekalb	DKC63-33RIB	195.6	103.9	23.3	0.0	54.5	29012
33	Mycogen	2C799	191.3	101.6	23.2	0.0	52.9	29200
50	NK	N83D-3000GT	189.5	100.6	26.5	1.4	55.6	29389
22	**Dekalb**	**DKC64-87RIB**	**188.9**	**100.3**	**24.8**	**0.0**	**54.8**	**29954**
24	Augusta	A 6465	188.2	100.0	27.9	0.0	55.6	28635
7	T.A. Seeds	TA736-22DPRIB	187.0	99.3	24.2	0.0	55.8	29389
40	Doeblers®	RPM® 5315AM™	186.0	98.7	26.9	0.0	53.8	29577
18	Dekalb	DKC65-19RIB	185.8	98.7	24.8	0.7	55.4	28823
44	**Pioneer**	**P1498 AM**	**182.9**	**97.1**	**21.7**	**0.7**	**54.7**	**28447**
41	Doeblers®	5615GRQ™	178.2	94.6	24.6	0.0	52.8	28635
4	Dyna-Gro	D54VC52	177.9	94.4	24.5	0.0	55.0	28258
19	Dekalb	DKC65-71RIB	175.9	93.4	24.1	0.0	54.8	28258
49	NK	N74L-3010	172.0	91.3	19.8	0.0	49.3	28823
53	**NK**	**N74R-3122**	**169.2**	**89.8**	**26.3**	**0.0**	**54.2**	**28258**
16	Dekalb	DKC63-60RIB	167.2	88.8	23.6	0.0	55.4	27505
17	Dekalb	DKC63-71RIB	149.4	79.4	24.1	0.7	56.4	28447
Trial Mean			**188.3**		**24.4**	**0.2**	**54.5**	**28935**
Probability > F			**0.098**		**<0.0001**	**0.71**	**<0.0001**	**0.41**
$LSD_{0.05}$			**NS**		**1.8**	**NS**	**1.6**	**NS**
CV%			**12.45**		**4.57**	**394**	**1.8**	**4.28**

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

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

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

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

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

*Hybrids with an asterisk next to yield are not significantly different (Probability > F ≤0.05) 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 2016.

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	T.A. Seeds	TA547-22DPRIB	212.0	109.8	13.6	0.0	52.7	29765
51	**NK**	**N60F-3111**	**206.2***	**106.8**	**17.0**	**0.6**	**53.3**	**29012**
42	**Pioneer**	**P0604 AM**	**200.0***	**103.6**	**14.8**	**1.3**	**54.2**	**28823**
11	Dekalb	DKC56-03RIB	195.5*	101.2	15.0	1.2	54.2	30707
10	Dekalb	DKC55-20RIB	193.7*	100.3	14.8	0.7	52.3	30330
23	Augusta	A 1108	188.9	97.8	17.2	3.8	53.3	29954
20	**Dekalb**	**DKC57-92RIB**	**185.6**	**96.1**	**14.6**	**1.3**	**53.3**	**29200**
36	Doeblers®	RPM® 4717AMX™	185.0	95.8	16.3	0.0	54.6	29200
9	Dekalb	DKC52-30RIB	170.6	88.4	14.0	2.5	52.6	29765
Mean			**193.1**		**15.2**	**1.3**	**53.4**	**29640**
Probability > F			**0.011**		**<0.0001**	**0.0009**	**0.001**	**0.47**
$LSD_{0.05}$			**19.0**		**0.7**	**1.5**	**1.0**	**1894**
CV%			**5.68**		**2.59**	**66.4**	**1.1**	**3.69**

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

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

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

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

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

*Hybrids with an asterisk are not significantly different (Probability > F ≤0.05) 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 2016.

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)
26	Augusta	A 5063	228.1	114.5	20.2	0.0	56.2	29012
55	Dekalb	DKC 62-05	223.0*	112.0	18.7	0.0	55.7	30896
54	Dekalb	DKC 62-08	218.7*	109.8	18.2	0.0	55.2	30707
43	**Pioneer**	**P1197 AM**	**215.6***	**108.2**	**17.3**	**0.0**	**53.5**	**28258**
48	NK	N69D-3000GT	206.9*	103.9	17.0	0.0	54.4	30707
28	Hubner	H6624RCSS	205.9*	103.4	19.0	1.8	55.4	30707
39	Doeblers®	RPM® 5125AM™	205.9*	103.4	15.9	0.0	53.5	30519
25	Augusta	A 1564	205.7*	103.3	18.5	0.6	51.6	29765
29	Hubner	H12G703	204.4*	102.7	18.4	0.0	54.9	30519
2	Dyna-Gro	CX16110	202.4	101.6	16.5	0.0	54.3	29200
21	**Dekalb**	**DKC62-08RIB**	**201.9**	**101.4**	**18.9**	**0.0**	**55.2**	**28447**
52	**NK**	**N70J-3111A**	**199.4**	**100.1**	**20.3**	**0.0**	**55.2**	**29954**
3	Dyna-Gro	D52VC91	198.7	99.8	18.9	2.0	57.2	29577
14	Dekalb	DKC61-88RIB	194.2	97.5	16.9	0.6	54.4	29200
46	NK	N66V-3000GT	193.7	97.3	16.4	2.0	54.5	28447
1	Dyna-Gro	D49VC39	192.6	96.7	17.5	4.0	53.8	28258
34	Mycogen	MY10Z28RA	192.0	96.4	17.7	0.7	53.3	28635
47	NK	N68K-3111A	190.6	95.7	18.1	0.0	52.3	28635
6	T.A. Seeds	TA583-22DPRIB	189.7	95.3	15.6	0.7	53.0	27128
12	Dekalb	DKC58-06RIB	187.1	94.0	17.5	2.5	54.9	30519
45	NK	N59B-3111A	184.0	92.4	19.3	0.7	54.0	28635
37	Doeblers®	RPM® 4917AM™	183.8	92.3	17.9	0.7	54.4	28823
13	Dekalb	DKC60-67RIB	178.5	89.6	17.0	0.0	55.4	28823
38	Doeblers®	RPM® 5015AM™	176.8	88.8	17.0	0.6	54.6	28635
Mean			**199.2**		**17.9**	**0.7**	**54.5**	**29334**
Probability > F			**0.005**		**<0.0001**	**0.10**	**<0.0001**	**0.05**
$LSD_{0.05}$			**24.4**		**1.3**	**NS**	**0.85**	**2240**
CV%			**7.46**		**4.45**	**184**	**0.95**	**4.65**

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

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

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

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

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

Table 22. Performance of full season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2016.

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)
53	**NK**	**N74R-3122**	**210.2**	**108.0**	**20.8**	**0.0**	**55.1**	**29012**
4	Dyna-Gro	D54VC52	208.4	107.1	19.5	0.0	56.2	27128
19	Dekalb	DKC65-71RIB	207.7	106.7	21.4	0.0	57.8	28635
8	T.A. Seeds	TA767-22DPRIB	203.2	104.4	18.8	1.2	53.7	31272
7	T.A. Seeds	TA736-22DPRIB	202.2	103.8	19.0	0.7	55.2	29389
32	Hubner	H14G153	201.6	103.6	21.6	1.3	55.1	29577
17	Dekalb	DKC63-71RIB	200.3	102.9	18.9	0.0	55.6	31084
18	Dekalb	DKC65-19RIB	197.3	101.4	21.6	0.7	59.2	29577
40	Doeblers®	RPM® 5315AM™	195.3	100.3	17.8	0.7	54.3	29577
41	Doeblers®	5615GRQ™	194.2	99.8	20.7	0.7	54.5	29765
16	Dekalb	DKC63-60RIB	194.1	99.7	19.1	0.6	56.4	29577
30	Hubner	H6663RCSS	194.0	99.7	19.5	1.3	54.6	29200
50	NK	N83D-3000GT	192.0	98.6	21.0	3.6	55.4	29389
22	**Dekalb**	**DKC64-87RIB**	**189.6**	**97.4**	**18.8**	**0.6**	**55.1**	**29765**
27	Augusta	A 1565	189.6	97.4	20.3	0.0	53.2	27316
31	Hubner	H4744RC2P	189.6	97.4	20.9	0.7	56.9	29954
15	Dekalb	DKC63-33RIB	188.6	96.9	16.7	0.0	55.5	28070
33	Mycogen	2C799	188.6	96.9	20.2	0.6	54.1	30896
35	Mycogen	MY13M87RA	187.5	96.3	19.8	0.6	55.4	29012
44	**Pioneer**	**P1498 AM**	**185.0**	**95.1**	**18.1**	**1.9**	**55.3**	**30142**
24	Augusta	A 6465	184.1	94.6	20.0	1.4	54.8	27128
49	NK	N74L-3010	179.5	92.2	18.1	0.7	51.7	28635
Mean			**194.7**		**19.7**	**0.8**	**55.3**	**29277**
Probability > F			**0.41**		**<0.0001**	**0.65**	**<0.0001**	**0.049**
$LSD_{0.05}$			**NS**		**1.2**	**NS**	**0.7**	**2420**
CV%			**7.17**		**3.73**	**197**	**0.78**	**5.02**

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

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

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

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

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

Table 23. Performance of early hybrids evaluated at Central Maryland Research and Education Center, Clarksville, MD during 2016.

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)
20	**Dekalb**	**DKC57-92RIB**	**217.7**	**107.4**	**16.8**	**1.9**	**53.0**	**29200**
42	**Pioneer**	**P0604 AM**	**208.7**	**102.9**	**16.5**	**1.4**	**53.5**	**25998**
9	Dekalb	DKC52-30RIB	207.9	102.6	15.9	2.7	51.7	28070
5	T.A. Seeds	TA547-22DPRIB	205.6	101.4	18.1	7.7	53.0	30330
23	Augusta	A 1108	205.5	101.4	19.5	5.0	53.4	28070
11	Dekalb	DKC56-03RIB	203.3	100.3	17.4	1.3	54.0	29200
10	Dekalb	DKC55-20RIB	202.5	99.9	17.5	0.6	52.8	31084
51	**NK**	**N60F-3111**	**187.5**	**92.5**	**18.3**	**5.1**	**53.6**	**29200**
36	Doeblers®	RPM® 4717AMX™	185.8	91.6	17.3	0.7	52.6	27693
Mean			**202.7**		**17.5**	**2.9**	**53.1**	**28761**
Probability > F			**0.81**		**0.03**	**0.79**	**0.41**	**0.01**
$LSD_{0.05}$			**NS**		**1.9**	**NS**	**NS**	**2343**
CV%			**8.89**		**6.21**	**193**	**2.1**	**4.71**

[1]See Table 5 for hybrid type code designations for early-season hybrids.

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

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

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

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

*Hybrids with an asterisk are not significantly different (Probability > F ≤0.05) 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 2016.

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)
28	Hubner	H6624RCSS	246.6	113.3	20.7	0.6	53.4	30519
3	Dyna-Gro	D52VC91	246.2*	113.1	18.4	3.2	55.1	30330
38	Doeblers®	RPM® 5015AM™	238.8*	109.7	18.2	0.8	52.5	28258
29	Hubner	H12G703	237.0*	108.9	19.9	0.9	54.1	30236
14	Dekalb	DKC61-88RIB	235.8*	108.3	18.4	3.2	53.0	29954
37	Doeblers®	RPM® 4917AM™	235.6*	108.3	18.7	2.1	53.6	27128
21	**Dekalb**	**DKC62-08RIB**	**234.3***	**107.7**	**20.6**	**9.8**	**54.8**	**28635**
2	Dyna-Gro	CX16110	230.0*	105.7	18.4	1.9	53.4	29765
12	Dekalb	DKC58-06RIB	224.6*	103.2	19.2	0.0	54.0	28447
52	**NK**	**N70J-3111A**	**223.7***	**102.8**	**20.9**	**1.2**	**54.0**	**29765**
43	**Pioneer**	**P1197 AM**	**222.2***	**102.1**	**17.2**	**0.7**	**52.9**	**29954**
46	NK	N66V-3000GT	222.0*	102.0	17.8	3.1	52.5	27128
54	Dekalb	DKC 62-08	221.5*	101.8	17.9	1.3	52.4	27881
55	Dekalb	DKC 62-05	217.6*	100.0	20.0	4.8	53.9	27505
25	Augusta	A 1564	210.5	96.7	20.2	0.0	50.4	27693
26	Augusta	A 5063	209.6	96.3	22.5	2.3	53.9	24490
39	Doeblers®	RPM® 5125AM™	205.1	94.2	16.6	0.0	53.2	26939
6	T.A. Seeds	TA583-22DPRIB	204.1	93.8	17.0	1.5	51.9	24679
34	Mycogen	MY10Z28RA	202.1	92.8	19.0	2.8	52.0	27693
13	Dekalb	DKC60-67RIB	200.4	92.1	16.8	1.4	53.6	26751
45	NK	N59B-3111A	198.7	91.3	19.8	4.1	53.4	27881
1	Dyna-Gro	D49VC39	192.5	88.5	18.3	4.8	53.3	27693
47	NK	N68K-3111A	184.8	84.9	19.1	7.4	50.9	27505
48	NK	N69D-3000GT	179.6	82.5	18.1	2.1	53.3	27881
Mean			**217.7**		**18.9**	**2.5**	**53.1**	**28083**
Probability > F			**0.02**		**<0.0001**	**0.53**	**<0.0001**	**0.002**
$LSD_{0.05}$			**36.0**		**1.45**	**NS**	**1.1**	**2724**
CV%			**10.03**		**4.65**	**165**	**1.3**	**5.90**

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

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

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

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

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

*Hybrids with an asterisk are not significantly different (Probability > F ≤0.05) 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 2016.

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)
17	Dekalb	DKC63-71RIB	244.8	117.6	19.7	0.0	54.1	29765
8	T.A. Seeds	TA767-22DPRIB	233.6*	112.2	22.1	1.8	53.5	32026
30	Hubner	H6663RCSS	232.5*	111.7	20.7	1.2	53.6	29954
24	Augusta	A 6465	230.9*	110.9	22.2	0.7	54.1	28447
16	Dekalb	DKC63-60RIB	229.4*	110.2	19.0	0.6	55.1	30707
18	Dekalb	DKC65-19RIB	224.0*	107.6	20.0	0.6	54.5	28823
32	Hubner	H14G153	223.2*	107.2	21.3	0.8	52.8	25998
53	**NK**	**N74R-3122**	**216.3***	**103.9**	**20.8**	**3.5**	**53.4**	**27505**
4	Dyna-Gro	D54VC52	210.5*	101.1	19.5	1.4	53.9	27316
41	Doeblers®	5615GRQ™	208.6*	100.2	20.6	1.4	53.1	37678
19	Dekalb	DKC65-71RIB	207.6*	99.7	20.9	1.3	55.8	27693
35	Mycogen	MY13M87RA	206.7*	99.3	20.0	1.3	53.5	29765
44	**Pioneer**	**P1498 AM**	**205.4***	**98.6**	**18.1**	**0.7**	**53.6**	**26939**
22	**Dekalb**	**DKC64-87RIB**	**204.0**	**98.0**	**19.8**	**0.0**	**54.2**	**28823**
27	Augusta	A 1565	203.5	97.7	22.1	2.0	52.0	27693
33	Mycogen	2C799	203.4	97.7	21.1	1.9	53.9	30142
7	T.A. Seeds	TA736-22DPRIB	201.8	96.9	21.1	0.0	53.5	27693
50	NK	N83D-3000GT	199.7	95.9	22.6	1.4	54.2	26751
49	NK	N74L-3010	192.9	92.6	18.7	2.1	50.1	26939
31	Hubner	H4744RC2P	188.2	90.4	19.6	2.1	54.7	28447
15	Dekalb	DKC63-33RIB	159.1	76.4	17.9	1.8	54.5	30707
40	Doeblers®	RPM® 5315AM™	154.7	74.3	18.8	0.6	53.4	30896
Mean			**207.9**		**20.3**	**1.2**	**53.7**	**28703**
Probability > F			**0.009**		**<0.0001**	**0.65**	**<0.0001**	**<0.0001**
$LSD_{0.05}$			**40.6**		**1.4**	**NS**	**1.6**	**2212**
CV%			**11.83**		**4.21**	**129**	**1.79**	**4.68**

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

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

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

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

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

*Hybrids with an asterisk are not significantly different (p=0.05) for yield compared to the top-yielding hybrid at this location.

Table 26. Relative yield scores for early season hybrids evaluated in Maryland during 2016. 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
42	**Pioneer**	**P0604 AM**	**104.2**	**102.1**	**104.2**	**108.9**	**102.9**	**103.6**
20	**Dekalb**	**DKC57-92RIB**	**103.4**	**108.2**	**105.2**	**99.2**	**107.4**	**96.1**
11	Dekalb	DKC56-03RIB	102.6	99.9	107.0	105.8	100.3	101.2
23	Augusta	A 1108	99.4	103.9	99.5	94.6	101.4	97.8
51	**NK**	**N60F-3111**	**99.4**	**100.6**	**103.4**	**92.1**	**92.5**	**106.8**
5	T.A. Seeds	TA547-22DPRIB	98.8	95.0	85.8	102.0	101.4	109.8
9	Dekalb	DKC52-30RIB	98.7	96.5	100.1	106.7	102.6	88.4
10	Dekalb	DKC55-20RIB	97.2	95.6	98.6	91.6	99.9	100.3
36	Doeblers®	RPM® 4717AMX™	96.4	98.2	96.2	99.0	91.6	95.8
Trial Mean (bu/acre)			**199.6**	**228.7**	**186.0**	**187.2**	**202.7**	**193.1**

[1] **Bold** hybrids are checks included with funding from the Maryland Grain Producers' Utilization Board.
[2]Hybrids highlighted in light gray have relative yield ratings of 100 or greater at all sites tested.
[3]Hybrids highlighted in dark gray have relative yield ratings of 100 or greater at 4 testing sites.

Table 27. Relative yield scores for mid-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
55	Dekalb	DKC62-05	107.3	112.1	97.5	114.3	100.0	112.0
54	Dekalb	DKC62-08	106.5	107.0	108.8	105.3	101.8	109.8
14	Dekalb	DKC61-88RIB	104.7	104.7	107.4	105.0	108.3	97.5
26	Augusta	A 5063	104.2	110.2	98.2	101.0	96.3	114.5
37	Doeblers®	RPM® 4917AM™	103.5	102.9	122.9	94.5	108.3	92.3
25	Augusta	A 1564	103.3	102.4	113.3	101.4	96.7	103.3
2	Dyna-Gro	CX16110	102.9	107.1	91.9	106.8	105.7	101.6
3	Dyna-Gro	D52VC91	102.2	104.3	95.2	96.5	113.1	99.8
28	Hubner	H6624RCSS	102.2	98.5	105.1	89.6	113.3	103.4
29	Hubner	H12G703	102.2	96.2	104.5	103.2	108.9	102.7
43	**Pioneer**	**P1197 AM**	**101.9**	**103.2**	**102.9**	**92.2**	**102.1**	**108.2**
52	**NK**	**N70J-3111A**	**100.2**	**95.7**	**100.4**	**102.5**	**102.8**	**100.1**
21	**Dekalb**	**DKC62-08RIB**	**100.0**	**97.9**	**94.7**	**102.4**	**107.7**	**101.4**
46	NK	N66V-3000GT	99.3	100.3	105.8	90.1	102.0	97.3
6	T.A. Seeds	TA583-22DPRIB	98.1	93.6	102.8	106.6	93.8	95.3
1	Dyna-Gro	D49VC39	97.8	101.0	102.9	100.0	88.5	96.7
38	Doeblers®	RPM® 5015AM™	97.6	99.2	86.3	102.2	109.7	88.8
39	Doeblers®	RPM® 5125AM™	97.3	98.2	93.7	96.7	94.2	103.4
13	Dekalb	DKC60-67RIB	97.1	98.7	96.7	108.5	92.1	89.6
47	NK	N68K-3111A	95.8	96.4	101.1	101.9	84.9	95.7
34	Mycogen	MY10Z28RA	95.7	92.9	89.5	107.6	92.8	96.4
45	NK	N59B-3111A	95.0	94.3	102.0	95.5	91.3	92.4
12	Dekalb	DKC58-06RIB	93.0	87.6	85.0	94.9	103.2	94.0
48	NK	N69D-3000GT	91.5	95.9	91.3	81.4	82.5	103.9
Trial Mean (bu/acre)			**206.4**	**231.9**	**193.9**	**190.1**	**217.7**	**199.2**

[1] **Bold** hybrids are checks included with funding from the Maryland Grain Producers' Utilization Board.
[2]Hybrids highlighted in light gray have relative yield ratings of 100 or greater at all sites tested.
[3]Hybrids highlighted in dark gray have relative yield ratings of 100 or greater at 4 testing sites.

Table 28. 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
8	T.A. Seeds	TA767-22DPRIB	108.1	107.9	102.0	113.7	112.2	104.4
31	Hubner	H4744RC2P	106.7	113.5	116.7	115.6	90.4	97.4
32	Hubner	H14G153	105.8	101.6	110.6	106.5	107.2	103.6
30	Hubner	H6663RCSS	104.5	98.5	98.2	115.4	111.7	99.7
24	Augusta	A 6465	104.3	105.4	113.2	100.0	110.9	94.6
18	Dekalb	DKC65-19RIB	102.9	103.7	102.2	98.7	107.6	101.4
19	Dekalb	DKC65-71RIB	102.8	110.4	102.0	93.4	99.7	106.7
4	Dyna-Gro	D54VC52	101.0	101.0	101.3	94.4	101.1	107.1
27	Augusta	A 1565	100.8	97.5	101.0	111.2	97.7	97.4
50	NK	N83D-3000GT	100.7	102.3	106.0	100.6	95.9	98.6
16	Dekalb	DKC63-60RIB	98.9	98.3	96.4	88.8	110.2	99.7
41	Doeblers®	5615GRQ™	98.5	97.5	100.4	94.6	100.2	99.8
17	Dekalb	DKC63-71RIB	98.4	97.6	92.6	79.4	117.6	102.9
35	Mycogen	MY13M87RA	98.3	95.7	95.1	105.6	99.3	96.3
22	**Dekalb**	**DKC64-87RIB**	**97.4**	**97.4**	**93.6**	**100.3**	**98.0**	**97.4**
33	Mycogen	2C799	97.2	95.8	94.2	101.6	97.7	96.9
15	Dekalb	DKC63-33RIB	96.5	102.8	102.7	103.9	76.4	96.9
44	**Pioneer**	**P1498 AM**	**96.5**	**96.7**	**94.6**	**97.1**	**98.6**	**95.1**
7	T.A. Seeds	TA736-22DPRIB	96.4	86.9	96.8	99.3	96.9	103.8
40	Doeblers®	RPM® 5315AM™	96.3	101.0	107.6	98.7	74.3	100.3
53	**NK**	**N74R-3122**	**95.2**	**94.8**	**78.8**	**89.8**	**103.9**	**108.0**
49	NK	N74L-3010	92.8	93.7	94.0	91.3	92.6	92.2
Trial Mean (bu/acre)			**203.7**	**233.2**	**194.3**	**188.3**	**207.9**	**194.7**

[1]**Bold** hybrids are checks included with funding from the Maryland Grain Producers' Utilization Board.
[2]Hybrids highlighted in light gray have relative yield ratings of 100 or greater at 5 testing locations.
[3]Hybrids highlighted in dark gray have relative yield ratings of 100 or greater at 4 testing locations.