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Agronomy Facts No. 54
Revised November 1, 2007

2007 Maryland Corn Hybrid Performance Tests

<http://www.mdcrops.umd.edu>

Test Procedures

A fee-based, performance-testing program for corn hybrids is offered to seed corn companies by the Maryland Cooperative Extension and Agricultural Experiment Station at the University of Maryland. The Extension Specialist for grain and oil crops is director of these tests. The results from these replicated trials provide Maryland corn producers with agronomic performance information for the submitted corn hybrids that are grown at five Maryland locations (Table 1) considered to be representative of the state's geography and weather conditions. Table 1 summarizes the important agronomic and production information for each test site.

Hybrids tested during 2007 were submitted in three ways. First, participating seed companies (Table 2) were solicited for submission of hybrids for our fee-based program. These entries ranged from currently available to experimental hybrids still under evaluation. Second, the Maryland Grain Producers' Utilization Board provided funding for the purchase of seed and to cover the costs for testing commonly grown hybrids that are familiar to farmers and that otherwise would not be tested in the fee-based testing program. The inclusion of the performance data for these benchmark hybrids allows for comparisons between newer hybrids and some of the old standbys. Third, the top performing hybrids in each of the respective tests for 2006 were included in the 2007 tests, gratis. These hybrids also are used as check hybrids.

During 2007, 87 hybrids were tested in one of three maturity group tests: (1) early season (27 hybrids) (Table 4); (2) mid season (42 hybrids) (Table 5); and (3) full season (18 hybrids) (Table 6). Each company designated the maturity group for each hybrid they submitted. Check hybrids were included in each of the three tests. Many of the hybrids had Bt (European corn borer and corn rootworm) and/or Roundup-Ready technology incorporated in their genetics. A number were triple-stacked hybrids.

Hybrids were grouped according to maturity, randomized within their appropriate maturity group and replicated three times per location. The tests were planted with either a Wintersteiger Plotking 2600 Precision Air Planter (Salisbury and Poplar Hill) or with a new, four-row John Deere 1750 planter equipped with coulters and trash-wheels for no-till planting and with modified planter units manufactured by Clewell Precision Machine, Inc., Milton, PA that allowed plot planting. Each plot was 32 feet long and consisted of four rows spaced 30 inches apart. The planters were set to deliver 28,000 seeds/acre. Each plot was trimmed to a length of 26.5 feet (harvest length) at growth stage V6-V8. Emerged population counts were made at the time the plots were trimmed to harvest length. Harvest population and number of lodged plants per plot were counted within one week of harvest and frequently occurred the same day as harvest. The center two rows of each plot were harvested for yield and harvest moisture content measurements of the grain. These data were collected with a HarvestMaster HM 1000 Grain Gauge and recorded on an Allegro Field PC.

Growing Season

The 2007 growing season was highlighted by extremely dry conditions (Table 3). Growing season precipitation ranged from 52% (Keedysville) to 77% (Wye) of the long-term averages for the five locations. Winter precipitation for much of the state was below normal. Soil moisture conditions improved in April with normal to above-normal rainfall received across much of the state resulting good seedbed moisture for planting that was underway by the last two weeks of April on Maryland's Eastern Shore. Planting progress continued at a normal pace with nearly 70% of the crop planted by mid-May. The good soil moisture conditions coupled with normal temperatures during late April and early May resulted in good seedling emergence and stand establishment. However, April was the last month until August that realized average or better precipitation. May was extremely dry (Table 3) but soil moisture was adequate at most locations to support normal early growth of the crop. Unfortunately, when the crop reached the rapid vegetative growth stages (V5 or greater), soil moisture conditions had become depleted and rainfall became infrequent and insufficient. Conditions remained the same as the crop transitioned from vegetative growth to reproductive growth in early-mid July. Precipitation totals improved in August but by then it was "too little, too late" for the crop. Due to the drought, early planted corn dried quickly allowing approximately 5% of the crop to be harvested by September 1. Dry weather continued during September allowing harvest to progress virtually uninterrupted with 50% of the crop harvested by the end of the month. Good harvest

weather continued through October with the October 28 Maryland Department of Agriculture report indicating harvest was 85% complete.

Test Results

The performance of the hybrids in the 2007 State Corn Hybrid Tests (Tables 7-21) reflected the yields that have been attained statewide for corn that was planted prior to May 10. Averaged over the five locations, the mean yield for the 27 early season hybrids was 124 bu/acre, 132 bu/acre for the 42 mid-season hybrids and 130 bu/acre for the 18 full season hybrids. However, these average yields do not reflect the extremely dry conditions that were present throughout most of the growing season (Table 3). These yields are, in fact, elevated considerably by the inclusion of the Salisbury location which received supplemental irrigation that resulted in an average yield for this site that exceeded 210 bu/acre. Without the Salisbury data, the early, mid-season and full-season maturity groups averaged 103, 111, and 109 bu/acre, respectively.

The agronomic characteristics reported are yield in bushels/acre at 15.5% moisture content, harvest moisture content, per cent lodging, and both emerged and harvest plant populations. Lodging was virtually non-existent during 2007.

A least significant difference (LSD) value is reported for yield for each test where statistically significant differences for that variable were observed among hybrids. This mean separation test value has been calculated at the 10 percent probability level. Readers of this report can use the LSD value to compare two hybrids within the same test. 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 the result of random variability. The coefficient of variation (CV) that is reported is a measurement of the variability at a test site and is used as an indicator of the degree of precision for that particular test. In general, CV values below 15% are an indication that the precision of a variety test was good for distinguishing differences among hybrids. There are a number of instances where CV values exceeded 15% this year. Typically, the greater CV's were observed at the locations (Clarksville and Keedysville) that had the greatest yield reductions caused by the drought. This outcome is attributed to the greater than normal levels of soil moisture variability within the fields where the tests were conducted.

The selection of a hybrid based solely upon its performance at one location is not recommended. It is better to select a hybrid based upon its performance over a number of locations and/or years. In order to compare the performance of each hybrid across the five locations, relative yield tables for 2007 (Tables 22-24) are included. Relative yield is the ratio of the yield of a specific hybrid at a location to the mean yield of all the hybrids at that location expressed in percentage. A hybrid that has a relative yield score consistently greater than 100 across the testing locations can be considered to have good stability. Another measure of hybrid stability is the performance of a hybrid over years. Table 25 has the relative yield values for all hybrids that have been included in the tests during the past two and three years. Of particular interest in this table is the furthest right column that identifies the number of times that a hybrid has a relative yield score greater than 100.

Acknowledgments

The University of Maryland Grain and Oil Crops Program recognizes the staffs at each of the farm locations (Table 1) for their assistance with land preparation, planting, plot management, harvesting, and equipment maintenance/repair. The contributions of David Armentrout, Kevin Conover, Timothy Ellis, Kaitlyn Harrell, David Justice, F. Ronald Mulford, Sean O'Connell, and Mark Sultenfuss were essential for the successful completion of these tests. Special recognition also goes to the Maryland Grain Producers' Utilization Board for funding the inclusion of the check hybrids. I would also like to give special recognition to the farm staffs at the Wye and Central Maryland Research and Education Center-Beltsville Farm who spent many hours during the winter modifying the new John Deere 1750 planter so that it could be used for planting this test. In particular, I thank Joe Street and Donny Murphy who provided the mechanical and electrical expertise for these modifications.

Additional Information

The inclusion of hybrids in the Maryland Corn Hybrid Tests does not constitute an endorsement by the University of Maryland. Advertising statements about the performance of a company's entries can be made as long as they are accurate statements about the data as published, with no reference to the other companies' hybrids. Statements similar to either "See the Maryland Corn Hybrid Tests Agronomy Facts No. 54" or "Endorsement or recommendation by the University of Maryland is not implied" must accompany any information that is reproduced. Agronomy Facts No. 54 can be obtained at the Maryland Cropping Systems webpage: <http://www.mdcrops.umd.edu>

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Table 1. 2007 Maryland corn test plot management information.

Location	Soil type	Previous crop	Fertilizer	Herbicides	Insecticide	Tillage	Plant date	Harvest date	Farm crew
Wye Research & Education (R&E) Center Queenstown, MD	Mattapeake silt loam	Soybean	200 lb/a 0-0-62 (3/23/06) 121 lb N/acre as 30% UAN (5/3/07) 50 lb N/acre sidedress (6/7/07) Total = 171-0-124	4/25/04 Gramoxone 2.5 pt./ac + NIS 5/3/07 1 qt. Glyphos Xtra 3 qt. Lexar 1 pt Valid	None	No-till with trash wheels	April 30	Sept. 20	Mark Sultenfuss Joe Street Reese Stafford
Lower Eastern Shore R&E Center Poplar Hill Farm Quantico, MD	Mattapex silt loam	Wheat and DC Soybean	Preplant broadcast equivalent of 40-30-80-24 Sidedress with 30% UAN equivalent to 100 lb/acre Total = 140-30-80-24	Microtech @ 1.3 qt/a + Gramoxone @ 30 oz/a + 2,4-D ester @ 16 oz/a (04/18/07); Lumax @ 2.5 qts/a + Atrazine 4L @ ¾ qt/a (04/30/07) Stinger @ 10 oz/a (06/01/07)	None	No-till	April 28	Sept. 26	Ronald Mulford Fred Senkbeil Mike Senkbeil Wally Hines
Lower Eastern Shore R&E Center Salisbury Farm Salisbury, MD	Norfolk loamy sand	Wheat cover crop	1 T/acre lime (2/9/07); 500 lb/acre 0-5-15-7 + 0.2% B (4/10/07); 60 lb N/acre as 30% UAN (4/24/07); 60 lb N/acre as 30% UAN (5/25/07); 60 lb N/acre as 30% UAN (6/06/07) Total = 180-25-75-35 +1 B	Roundup Weathermax @ 22 oz/acre + BiCep II Magnum 1.5 pt/acre (4/20/07) Steadfast ATZ @ 14 oz/acre + Callisto @ 2 oz/acre + 30% UAN @ 2 qt/acre + Crop Oil @ 1 gal/100 gal. (5/22/07)	4 oz/acre Asana XL (4/20/07)	No-till	April 28	Sept. 16	David Armentrout Mike Kelly James Lynch Vivian Calder
Central Maryland R&E Center Clarksville Farm Clarksville, MD	Delanco silt loam	Soybean	Early and Mid Season Tests 1 T/acre lime (early spring 2007) 200 lb/acre 7-18-36 @ planting; 40 gal/acre UAN applied with post-plant herbicide Full Season Test Same as other except field not limed. Total = 140-27-54	Bicep II Mag @ 2 qt/acre + 1 pt/acre Gramoxone Max + 1 pt/acre surfactant @ planting	None used	Chisel; disk and pack	May 15	Oct. 4	David Justice Timothy Ridgley
Western Maryland R&E Center Keedysville, MD	Hagerstown silt loam	Soybean	41 gal / acre 30% UAN applied 5/15/07 Total = 134-0-0	Lumax @ 3 qt/acre; 1.25 qt/acre Simazine; 1 qt/acre Credit Extra (glyphosate) (5/15/07)	None used	Disk & pack	May 14	Oct. 3	Timothy Ellis Douglas Price

Table 2. Seed brands and companies represented in the 2007 Maryland corn hybrid tests.

Brand	Address
Adler	UniSouth Genetics, Inc. 2640-C Nolensville Road, Nashville, TN 37211
Augusta	Augusta Seed Corporation, 473 Tisdale Farm Lane, Staunton, VA 24401
DeKalb	Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63167
Doebler's	Doebler's, Inc., 202 Tiadaghton Ave., Jersey Shore, PA 17740
Freedom	UniSouth Genetics, Inc. 2640-C Nolensville Road, Nashville, TN 37211
Garst	Garst Seed Company, 2369 330 th Street, Slater, IA 50244
Growmark FS	Growmark FS LLC., 308 N.E. Front St., Milford, DE 19963
NK Brand	N.K. Brand Seeds, P.O. Box 959, Minneapolis, MN 55440
Pioneer	Pioneer Hi-bred International, Inc., PO Box 14453, Des Moines, IA 50306
Southern States	Southern States Coop. Inc., 6606 West Broad St., Richmond, VA 23230
T.A. Seeds	T.A. Seeds LLC., PO Box 300, Avis, PA 17721
Trisler Seeds	Trisler Seeds Inc., 3274 E. 800 North Rd., Fairmount, IL 61841

Table 3. Precipitation received at each location where the Maryland Corn Hybrid Tests were conducted during 2007.

Month	Wye	Poplar Hill	Salisbury ¹	Keedysville	Clarksville
	-----Inches-----				
April	6.2	4.58	5.6 (0.0)	3.14	3.55
May	1.42	0.93	0.97 (1.6)	1.61	0.51
June	2.74	3.12	2.44 (2.2)	1.55	3.13
July	1.4	1.72	2.03 (3.3)	0.83	1.84
August	4.27	2.10	4.1 (0.5)	5.66	2.62
September	1.36	3.39	0.91 (0.5)	1.13	0.95
2007 Total	17.39	15.84	16.05 (8.1)	13.92	12.6
Long Term Average	22.63	22.32	23.88	21.4	24.16

¹The number in parentheses following the precipitation total for each month at Salisbury indicates the amount of supplemental irrigation that was applied to the site.

Table 4. Relative maturity, genetic traits, and seed treatments for early-season hybrids tested in Maryland during 2007.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits¹	Seed Treatment
Adler	3515 RRBT	107	CB RR	Poncho 250
Augusta	3387	107	Conventional	Poncho 250
Augusta	03-84PLRR	108	CB RW RR	Poncho 250
Augusta	05-30PLRR	107	CB RW RR	Poncho 250
Augusta	06-05GT	101	RR	Poncho 250
Augusta	06-07CB	107	CB	Poncho 250
Augusta	06-11HX	108	HX	Poncho 250
Augusta	06-35CB	105	CB	Poncho 250
Augusta	06-62HX	103	HX	Poncho 250
Augusta	07-12PLRR	102	CB RW RR	Poncho 250
Augusta	2744RRCB	103	CB RR	Poncho 250
Augusta	4495RRCB	101	CB RR	Poncho 250
Augusta	5160CB	105	CB	Poncho 250
Augusta	5175CB	107	CB	Poncho 250
Augusta	5231CB	106	CB	Poncho 250
Augusta²	5234PLRR	106	CB RW RR	Poncho 250
Augusta²	5244RRCB	106	CB RR	Poncho 250
Dekalb	DKC57-47 (RR2)	107	RR	Poncho 250
Dekalb	DKC61-22 (RR2)	111	RR	Poncho 250
Doebler's	555XY	102	Conventional	Captan/Actellic/Poncho 250/Trilex/Allegiance
Doebler's	648ARB	106	CB RR	Captan/Actellic/Poncho 250/Trilex/Allegiance
Doebler's	660BWR	106	CB RW RR	Captan/Actellic/Poncho 250/Trilex/Allegiance
Pioneer²	36W66	103	Conventional	
T.A. Seeds	TA555-13	105	CB RW RR	Captan/Nu-Gro/Allegiance/Trilex/Poncho 250
T.A. Seeds	TA570-11	106	CB LL	Poncho 250
Trisler	5A01RRCB	107	CB RR	Poncho 250
Trisler	5N52PLRR	108	CB RW RR	Poncho 250

¹Genetic trait codes are: CB and HX for Bt (*Bacillus thuringiensis*) events for European corn borer resistance; RR for glyphosate (Roundup) herbicide resistance; Conventional for no biotechnology linked genetic enhancement; RW for Bt event for corn rootworm resistance; HX for Bt event for European corn borer resistance; LL for glufosinate (Liberty) herbicide resistance;.

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

Table 5. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in Maryland during 2007.

Brand/ Company Name	Hybrid Name	Relative Maturity	Genetic Traits¹	Seed Treatment
Adler	4740 YGPL	112	CB RW RR	Poncho 250
Augusta	5337	113	Conventional	Poncho 250
Augusta	06 06	112	Conventional	Poncho 250
Augusta	06-04HX	110	HX	Poncho 250
Augusta	06-08HX	112	HX	Poncho 250
Augusta	06-09HX	112	HX	Poncho 250
Augusta	07 09	109	Conventional	Poncho 250
Augusta	07 20	113		Poncho 250
Augusta	07 21	113		Poncho 250
Augusta	5252HX	113	HX	Poncho 250
Augusta	5262PLRR	110	CB RW RR	Poncho 250
Augusta	5337RRCB	113	CB RR	Poncho 250
Dekalb	DKC61-73 R2/YGCB	111	CB RR	Poncho 250
Dekalb	DKC63-42 (VT3)	113	CB RW RR	Poncho 250
Dekalb	RX754RR2/YGPL	112	CB RW RR	Poncho 250
Doebler's²	648RYG	111	CB RR	Captan/Actellic/Poncho 250/Trilex/Allegiance
Doebler's	785RB	112	CB RR	Captan/Actellic/Poncho 250/Trilex/Allegiance
Doebler's	786BVR	112	CB RW RR	Captan/Actellic/Poncho 250/Trilex/Maxim XL
Freedom	580 CB LL	109	CB LL	Poncho 250
Garst	8353CB/LL	113	CB LL	Cruiser Extreme 250
Garst	8452CB/LL	112	CB LL	Cruiser Extreme 250
Growmark FS²	6103	111	CB RW	Poncho 250
Growmark FS	6241XRR	112	CB RW RR	Poncho 250
Growmark FS	6277XRR	112	CB RW RR	Poncho 250
Growmark FS	6363XRR	113	CB RR	Poncho 250
NK	N64-Z5	109	CB LL	Cruiser Extreme 250
NK	N68-B8	110	CB LL	Cruiser Extreme 250
NK	N72-L2	112	CB RW LL	Cruiser Extreme 250
NK	N75-A4	113	CB LL	Cruiser Extreme 250
NK²	N65-C5	109	CB LL	Cruiser Extreme 250
Pioneer²	34P88	110	Conventional	
SS	647VT3	110	CB RW RR	Poncho 1250
SS	E 95048	113	CL	Poncho 1250
T.A. Seeds	TA607-11	110	CB LL	Poncho 250
T.A. Seeds	TA678-13	111	CB RW RR	Captan/Nu-Gro/Allegiance/Trilex/Poncho 250
T.A. Seeds	TA688-11	113	CB LL	Captan/Nu-Gro/Allegiance/Trilex/Poncho 250
Trisler	6A02RRCB	109	CB RR	Poncho 250
Trisler	7A01VT3	111	CB RW RR	Poncho 250
Trisler	7N51PLRR	112	CB RW RR	Poncho 250
Trisler	7N53RRCB	112	CB RR	Poncho 250
Trisler	8A04PLRR	113	CB RW RR	Poncho 250
Trisler	8A03PLRR	113	CB RW RR	Poncho 250

¹Genetic trait codes are: CB and HX for Bt (*Bacillus thuringiensis*) events for European corn borer resistance; RR for glyphosate (Roundup) herbicide resistance; Conventional for no biotechnology linked genetic enhancement; RW for Bt event for corn rootworm resistance; LL for glufosinate (Liberty) herbicide resistance; CL for imidazolinone (IR or Clearfield) herbicide resistance.

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 full-season hybrids tested in Maryland during 2007.

Brand/Company Name	Hybrid Name	Relative Maturity	Genetic Traits¹	Seed Treatment
Augusta	06-02HX	119	HX	Poncho 250
Augusta	06-10HX	115	HX	Poncho 250
Augusta	07 08	118	Conventional	Poncho 250
Augusta	07-007	116	Conventional	Poncho 250
Augusta	07-14HX	112	HX	Poncho 250
Augusta	5338PLRR	116	CB RW RR	Poncho 250
Campbell²	7700R2	115	CB RR	
Dekalb	DKC64-23 RR2/YGRW)	114	RW RR	Poncho 250
Doebler's	856XRR	116	RR	Captan/Actellic/Poncho 250/Trilex/Allegiance
Garst	8343YPL/RR	115	CB RW RR	Cruiser Extreme 250
Growmark FS	6474XRR	114	CB RW RR	Poncho 250
Pioneer²	33H26	116	HX RR	
SS	746RR2YGCB	115	CB RR	Poncho 1250
SS	777RR2YGPL	116	CB RW RR	Poncho 1250
SS	783RR2YGCB	116	CB RR	Poncho 1250
T.A. Seeds	TA777-11	116	CB LL	Captan/Nu-Gro/Allegiance/Trilex/Poncho 250
T.A. Seeds	TA780-01	116	CB	Captan/Nu-Gro/Allegiance/Trilex/Poncho 250
T.A. Seeds	TA788-11	116	CB LL	Poncho 250

¹Genetic trait codes are: CB and HX for Bt (*Bacillus thuringiensis*) events for European corn borer resistance; RR for glyphosate (Roundup) herbicide resistance; Conventional for no biotechnology linked genetic enhancement; RW for Bt event for corn rootworm resistance; LL for glufosinate (Liberty) herbicide resistance.

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

Table 7. Performance of early season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerg	Harvested
Adler	3515 RRBT	CB RR	154	19.2	<1	29129	29150
Augusta	3387	Conventional	119	19.1	0	26627	27287
Augusta	03-84PLRR	CB RW RR	131	22.3	<1	29844	29259
Augusta	05-30PLRR	CB RW RR	138	19.1	<1	30023	29478
Augusta	06-05GT	RR	124	14.5	0	27700	26739
Augusta	06-07CB	CB	134	20.2	0	28414	26848
Augusta	06-11HX	HX	118	16.3	0	28236	26520
Augusta	06-35CB	CB	142	16.6	0	27342	26958
Augusta	06-62HX	HX	134	14.4	2	27700	27177
Augusta	07-12PLRR	CB RW RR	136	14.5	0	29487	26191
Augusta	2744RRCB	CB RR	136	15.5	<1	29665	28163
Augusta	4495RRCB	CB RR	128	13.9	1	28414	28930
Augusta	5160CB	CB	136	16.7	0	27163	25972
Augusta	5175CB	CB	136	15.9	0	27342	27067
Augusta	5231CB	CB	133	20.3	0	28236	27944
Augusta⁵	5234PLRR	CB RW RR	131	21.7	0	28236	27615
Augusta⁵	3387RRCB	CB RR	144	18.4	0	28057	25424
Dekalb	DKC57-47 (RR2)	RR	125	14.2	1	28593	27067
Dekalb	DKC61-22 (RR2)	RR	150	16.7	1	28950	28821
Doebler's	555XY	Conventional	131	15.6	1	27342	26629
Doebler's	648ARB	CB RR	137	17.0	0	27700	28163
Doebler's	660BWR	CB RW RR	149	18.0	0	30738	28930
Pioneer⁵	36W66	Conventional	139	13.0	<1	29308	28711
T.A. Seeds	TA555-13	CB RW RR	142	16.5	1	27342	26465
T.A. Seeds	TA570-11	CB LL	110	12.2	3	29308	27725
Trisler	5A01RRCB	CB RR	157	12.9	0	26270	27396
Trisler	5N52PLRR	CB RW RR	129	14.1	0	26627	25752
	Trial Mean		134.8		<1	28300	27509
	LSD_{0.10}		NS	1.87	N/A		
	CV%		13.6				

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 8. Performance of mid-season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerged	Harvested
Adler	4740 YGPL	CB RW RR	86	17.7	0	26449	26081
Augusta	5337	Conventional	119	18.6	0	26091	26300
Augusta	06 06	Conventional	106	20.4	0	27163	27396
Augusta	06-04HX	HX	103	15.4	0	26985	27287
Augusta	06-08HX	HX	118	16.8	0	24840	25314
Augusta	06-09HX	HX	120	18.9	0	30738	29040
Augusta	07 09	Conventional	100	18.0	0	25555	25752
Augusta	07-20		121	21.2	0	28950	29150
Augusta	07-21		91	17.5	0	26627	28382
Augusta	5252HX	HX	114	20.3	0	26449	27835
Augusta	5262PLRR	CB RW RR	114	20.0	0	29129	28054
Augusta	5337RRCB	CB RR	105	21.6	0	29487	28821
Dekalb	DKC61-73 RR2/YGCB	CB RR	135	16.0	0	26627	26629
Dekalb	DKC63-42 (VT3)	CB RW RR	111	18.2	0	28593	26958
Dekalb	RX754RR2/YGPL	CB RW RR	91	19.6	0	27878	26300
Doebler's⁵	648RYG	CB RR	89	17.7	0	26985	27506
Doebler's	785RB	CB RR	113	23.7	0	27163	26410
Doebler's	786BVR	CB RW RR	102	22.4	0	30738	28492
Freedom	580 CB LL	CB LL	115	19.7	0	26627	26848
Garst	8353CB/LL	CB LL	115	19.0	0	28057	27835
Garst	8452CB/LL	CB LL	117	19.2	0	28414	27944
Growmark FS⁵	6103	CB RW	126	16.7	0	29487	28492
Growmark FS	6241XRR	CB RW RR	138	22.0	0	29129	28602
Growmark FS	6277XRR	CB RW RR	106	16.8	0	29129	28711
Growmark FS	6363XRR	CB RR	131	20.2	0	26627	26629
NK	N64-Z5	CB LL	139	13.2	0	29308	26739
NK	N68-B8	CB LL	127	14.0	0	27342	27396
NK	N72-L2	CB RW LL	131	15.2	0	27521	27067
NK	N75-A4	CB LL	119	18.9	0	28236	26629
NK⁵	N65-C5	CB LL	121	15.8	0	29487	28711
Pioneer⁵	34P88	Conventional	112	18.1	0	27700	27615
Southern States	647VT3	CB RW RR	113	15.4	0	26270	27615
Southern States	E 95048	CL	119	18.5	0	26449	25752
T.A. Seeds	TA607-11	CB LL	124	18.1	0	23411	25205
T.A. Seeds	TA678-13	CB RW RR	100	15.2	0	25555	24766
T.A. Seeds	TA688-11	CB LL	112	15.9	0	28772	27177
Trisler	6A02RRCB	CB RR	129	19.5	0	27878	28163
Trisler	7A01VT3	CB RW RR	114	19.9	0	26985	28054
Trisler	7N51PLRR	CB RW RR	139	15.2	0	28950	29259
Trisler	7N53RRCB	CB RR	121	16.5	0	27521	27506
Trisler	8A04PLRR	CB RW RR	107	20.9	0	28236	27725
Trisler	8A03PLRR	CB RW RR	92	21.3	0	29487	28054
	Trial Mean		115.1		0		
	LSD_{0.10}		NS	3.12	N/A		
	CV%		24.5				

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 9. Performance of full season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerg ed	Harvested
Augusta	06-02HX	HX	117	23.9	1	25734	26191
Augusta	06-10HX	HX	132*	18.9	1	29308	27835
Augusta	07-08	Conventional	122	24.4	1	28950	27725
Augusta	07-007	Conventional	143*	22.9	3	29129	26629
Augusta	07-14HX	HX	126	18.8	1	28950	27944
Augusta	5338PLRR	CB RW RR	126	24.4	<1	27342	26629
Campbell⁵	7700R2	CB RR	141*	26.0	1	28593	26191
Dekalb	DKC64-23 (RR2/YGRW)	RW RR	154*	17.7	1	28593	27177
Doebler's	856XRR	RR	151*	28.5	1	28057	27506
Garst	8343YPL/RR	CB RW RR	111	22.5	<1	29487	25862
Growmark FS	6474XRR	CB RW RR	110	14.6	1	28414	27177
Pioneer⁵	33H26	HX RR	147*	15.6	2	28057	28492
Southern States	746RR2YGCB	CB RR	149*	22.5	2	29308	27067
Southern States	777RR2YGPL	CB RW RR	138*	23.7	6	28414	25080
Southern States	783RR2YGCB	CB RR	101	22.9	1	26985	25643
T.A. Seeds	TA777-11	CB LL	136*	18.2	<1	29844	27396
T.A. Seeds	TA780-01	CB	147*	22.3	1	27342	28930
T.A. Seeds	TA788-11	CB LL	139*	23.1	2	28950	29259
	Trial Mean		132.9			27681	27371
	LSD_{0.10}		25.4	1.31	N/A		
	CV%		18.5				

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 10. Performance of early season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerg	Harvested
Adler	3515 RRBT	CB RR	137*	16.9	N/A	28711	27615
Augusta	3387	Conventional	106	17.5	N/A	28930	26081
Augusta	03-84PLRR	CB RW RR	112	20.3	N/A	26300	25643
Augusta	05-30PLRR	CB RW RR	124*	20.5	N/A	28053	27396
Augusta	06-05GT	RR	82	14.3	N/A	25423	24876
Augusta	06-07CB	CB	123*	17.1	N/A	26081	26410
Augusta	06-11HX	HX	101	16.9	N/A	28930	26958
Augusta	06-35CB	CB	107	16.0	N/A	27176	26081
Augusta	06-62HX	HX	117	16.7	N/A	28492	26739
Augusta	07-12PLRR	CB RW RR	113	15.9	N/A	26738	26465
Augusta	2744RRCB	CB RR	113	15.9	N/A	31340	27835
Augusta	4495RRCB	CB RR	92	14.6	N/A	24547	25862
Augusta	5160CB	CB	124*	17.8	N/A	23013	24493
Augusta	5175CB	CB	104	17.1	N/A	24547	25972
Augusta	5231CB	CB	98	18.2	N/A	26629	25807
Augusta⁵	5234PLRR	CB RW RR	106	18.0	N/A	27396	25424
Augusta⁵	3387RRCB	CB RR	119	18.3	N/A	27177	25479
Dekalb	DKC57-47 (RR2)	RR	88	14.7	N/A	28273	27615
Dekalb	DKC61-22 (RR2)	RR	108	18.6	N/A	28711	27615
Doebler's	555XY	Conventional	99	15.0	N/A	27396	25862
Doebler's	648ARB	CB RR	101	18.7	N/A	26081	26410
Doebler's	660BWR	CB RW RR	122*	17.1	N/A	27834	28492
Pioneer⁵	36W66	Conventional	108	13.8	N/A	29149	28931
T.A. Seeds	TA555-13	CB RW RR	111	16.2	N/A	27286	27944
T.A. Seeds	TA570-11	CB LL	109	14.0	N/A	28053	26191
Trisler	5A01RRCB	CB RR	124*	13.7	N/A	27177	27616
Trisler	5N52PLRR	CB RW RR	128*	15.3	N/A	27396	27506
	Trial Mean		110.2	16.6	N/A	27207	26625
	LSD_{0.10}		17.3	0.44			
	CV%		15.3				

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 11. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerged	Harvested
Adler	4740 YGPL	CB RW RR	110	19.0	0	25204	25314
Augusta	5337	Conventional	128*	21.2	<1	28492	27177
Augusta	06 06	Conventional	122	19.9	<1	28930	27177
Augusta	06-04HX	HX	110	19.3	0	30464	26410
Augusta	06-08HX	HX	117	20.6	0	25643	25972
Augusta	06-09HX	HX	114	20.5	0	26081	27177
Augusta	07 09	Conventional	115	18.8	0	25862	27287
Augusta	07-20		137*	19.5	0	26928	26081
Augusta	07-21		93	19.1	3	29259	24766
Augusta	5252HX	HX	94	22.1	0	24985	24876
Augusta	5262PLRR	CB RW RR	119	16.6	0	26629	28930
Augusta	5337RRCB	CB RR	120	22.3	0	25862	24657
Dekalb	DKC61-73 (RR2/YGCB)	CB RR	122	17.6	0	26958	24657
Dekalb	DKC63-42 (VT3)	CB RW RR	117	16.6	<1	29807	27506
Dekalb	RX754RR2/YGPL	CB RW RR	112	19.6	0	29807	30574
Doebler's⁵	648RYG	CB RR	126*	18.6	0	29807	27396
Doebler's	785RB	CB RR	127*	22.7	0	24547	24437
Doebler's	786BVR	CB RW RR	117	22.8	<1	26738	27506
Freedom	580 CB LL	CB LL	109	18.3	<1	27177	24218
Garst	8353CB/LL	CB LL	126*	19.4	0	29149	27177
Garst	8452CB/LL	CB LL	121	19.9	0	25204	26629
Growmark FS⁵	6103	CB RW	133*	17.8	0	26738	26520
Growmark FS	6241XRR	CB RW RR	111	21.8	0	28602	28273
Growmark FS	6277XRR	CB RW RR	110	16.9	0	26958	25972
Growmark FS	6363XRR	CB RR	110	24.4	<1	25423	24657
NK	N64-Z5	CB LL	130*	15.3	1	27177	25205
NK	N68-B8	CB LL	123*	16.8	0	28492	26848
NK	N72-L2	CB RW LL	114	18.7	0	28711	26848
NK	N75-A4	CB LL	127*	20.8	<1	26081	25314
NK⁵	N65-C5	CB LL	117	18.5	0	28711	27725
Pioneer⁵	34P88	Conventional	119	19.4	0	24328	24547
Southern States	647VT3	CB RW RR	116	19.1	0	26739	27396
Southern States	E 95048	CL	115	16.5	0	26738	26300
T.A. Seeds	TA607-11	CB LL	105	19.5	0	22027	21917
T.A. Seeds	TA678-13	CB RW RR	114	18.1	0	24108	24328
T.A. Seeds	TA688-11	CB LL	121	17.7	0	25204	25972
Trisler	6A02RRCB	CB RR	116	19.2	<1	27396	26848
Trisler	7A01VT3	CB RW RR	112	19.9	0	27177	25164
Trisler	7N51PLRR	CB RW RR	107	16.9	<1	30903	27725
Trisler	7N53RRCB	CB RR	121	20.4	1	26519	25533
Trisler	8A04PLRR	CB RW RR	119	22.3	0	27177	25862
Trisler	8A03PLRR	CB RW RR	124*	23.4	2	28273	26739
	Trial Mean		116.9	19.5	0.25	27072	26229
	LSD_{0.10}		13.7	1.73			
	CV%		11.1				

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 12. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerg	Harvested
Augusta	06-02HX	HX	110	23.0	2	28711	27067
Augusta	06-10HX	HX	94	17.1	1	29807	26738
Augusta	07-08	Conventional	111	20.8	5	30464	27506
Augusta	07-007	Conventional	127*	22.4	<1	26300	25972
Augusta	07-14HX	HX	118	19.6	1	26738	27725
Augusta	5338PLRR	CB RW RR	121	20.1	0	26081	25862
Campbell⁵	7700R2	CB RR	126*	21.9	0	28711	26191
Dekalb	DKC64-23 (RR2/YGRW)	RW RR	120	20.2	0	27834	26081
Doebler's	856XRR	RR	118	25.4	0	26300	25424
Garst	8343YPL/RR	CB RW RR	94	20.4	0	27834	26739
Growmark FS	6474XRR	CB RW RR	96	15.5	0	29149	30355
Pioneer⁵	33H26	HX RR	129*	17.4	1	26519	26848
Southern States	746RR2YGCB	CB RR	130*	21.2	1	26958	26300
Southern States	777RR2YGPL	CB RW RR	120	20.5	0	23670	23013
Southern States	783RR2YGCB	CB RR	108	20.9	<1	25643	24766
T.A. Seeds	TA777-11	CB LL	131*	17.4	<1	25204	25424
T.A. Seeds	TA780-01	CB	136*	20.8	<1	27615	25205
T.A. Seeds	TA788-11	CB LL	125	19.9	0	28930	29698
	Trial Mean		117.5	20.3	0.67	27359	26495
	LSD_{0.10}		10.9	1.47			
	CV%		12.5				

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 13. Performance of early-season hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerg	Harvested
Adler	3515 RRBT	CB RR	214*	11.9	<1	28930	27944
Augusta	3387	Conventional	225*	11.7	<1	29149	29587
Augusta	03-84PLRR	CB RW RR	207	12.4	<1	31122	29587
Augusta	05-30PLRR	CB RW RR	223*	13.7	0	28491	28273
Augusta	06-05GT	RR	187	9.9	0	26957	27177
Augusta	06-07CB	CB	224*	10.6	<1	28053	27506
Augusta	06-11HX	HX	200	10.4	0	27834	27177
Augusta	06-35CB	CB	209*	10.5	0	28273	27396
Augusta	06-62HX	HX	203	11.4	0	28930	28821
Augusta	07-12PLRR	CB RW RR	203	11.0	0	27396	27177
Augusta	2744RRCB	CB RR	196	11.4	0	26407	27725
Augusta	4495RRCB	CB RR	208	11.0	0	28710	28273
Augusta	5160CB	CB	203	11.5	0	27286	27122
Augusta	5175CB	CB	223*	11.4	0	26300	27506
Augusta	5231CB	CB	217*	12.5	0	28053	28053
Augusta⁵	5234PLRR	CB RW RR	200	11.5	0	29587	28492
Augusta⁵	3387RRCB	CB RR	213*	11.1	0	28711	28273
Dekalb	DKC57-47 (RR2)	RR	200	11.6	<1	26739	26739
Dekalb	DKC61-22 (RR2)	RR	211*	13.4	<1	30026	29150
Doebler's	555XY	Conventional	186	10.9	0	25204	26191
Doebler's	648ARB	CB RR	215*	12.0	0	28273	28273
Doebler's	660BWR	CB RW RR	227*	13.4	0	29368	29040
Pioneer⁵	36W66	Conventional	209*	8.9	0	29807	27835
T.A. Seeds	TA555-13	CB RW RR	205	10.6	0	26958	26958
T.A. Seeds	TA570-11	CB LL	203	10.7	<1	30903	30136
Trisler	5A01RRCB	CB RR	209*	9.3	0	29588	28163
Trisler	5N52PLRR	CB RW RR	215*	10.3	0	25423	26629
	Trial Mean		209	11.3	<1	28268	27994
	LSD_{0.10}		18.2	1.9			
	CV%		9.6%	15.1			

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 14. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						EmergEd	Harvested
Adler	4740 YGPL	CB RW RR	186	11.4	2	25971	26779
Augusta	5337	Conventional	239	12.9	2	27177	26739
Augusta	06 06	Conventional	211	13.5	0	29149	28602
Augusta	06-04HX	HX	217	11.1	0	27230	26668
Augusta	06-08HX	HX	230	13.3	0	25423	26410
Augusta	06-09HX	HX	202	14.5	0	27834	27944
Augusta	07 09	Conventional	220	14.5	0	30026	29150
Augusta	07-20		213	13.2	0	28273	28602
Augusta	07-21		197	14.0	1	27615	27287
Augusta	5252HX	HX	221	13.8	0	29259	28163
Augusta	5262PLRR	CB RW RR	218	12.1	<1	30903	30684
Augusta	5337RRCB	CB RR	224	15.0	1	27396	28163
Dekalb	DKC61-73 (RR2/YGCB)	CB RR	210	14.3	0	28711	28383
Dekalb	DKC63-42 (VT3)	CB RW RR	256	11.5	0	31560	29807
Dekalb	RX754RR2/YGPL	CB RW RR	207	14.3	0	28273	29478
Doebler's⁵	648RYG	CB RR	242	10.7	0	28053	27835
Doebler's	785RB	CB RR	212	15.9	0	27615	25862
Doebler's	786BVR	CB RW RR	222	15.3	0	30683	28870
Freedom	580 CB LL	CB LL	212	10.3	0	27396	27396
Garst	8353CB/LL	CB LL	218	14.4	0	27834	27506
Garst	8452CB/LL	CB LL	208	12.4	0	28930	26958
Growmark FS⁵	6103	CB RW	212	11.2	0	29588	28054
Growmark FS	6241XRR	CB RW RR	189	14.6	<1	26519	26519
Growmark FS	6277XRR	CB RW RR	217	11.7	0	28711	27396
Growmark FS	6363XRR	CB RR	202	13.2	0	25862	27067
NK	N64-Z5	CB LL	233	11.0	0	29149	27287
NK	N68-B8	CB LL	234	10.2	0	28053	28053
NK	N72-L2	CB RW LL	210	10.7	0	29259	28821
NK	N75-A4	CB LL	214	13.0	0	27834	27017
NK⁵	N65-C5	CB LL	232	11.5	<1	30464	30245
Pioneer⁵	34P88	Conventional	211	14.2	0	28053	27944
Southern States	647VT3	CB RW RR	226	11.6	0	29368	27944
Southern States	E 95048	CL	224	12.7	1	27615	27615
T.A. Seeds	TA607-11	CB LL	212	10.9	0	25462	24081
T.A. Seeds	TA678-13	CB RW RR	201	11.3	0	28273	23890
T.A. Seeds	TA688-11	CB LL	226	11.2	1	30464	28930
Trisler	6A02RRCB	CB RR	206	12.6	0	28492	28492
Trisler	7A01VT3	CB RW RR	204	13.4	<1	28711	29807
Trisler	7N51PLRR	CB RW RR	196	9.8	<1	28492	28054
Trisler	7N53RRCB	CB RR	205	13.7	3	28492	27725
Trisler	8A04PLRR	CB RW RR	201	13.4	<1	27286	28435
Trisler	8A03PLRR	CB RW RR	206	14.9	0	26738	26629
	Trial Mean		215	12.7	0.3	28295	27798
	LSD_{0.10}		NS	1.8			
	CV%		13.3	15.4			

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 15. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerg'd	Harvested
Augusta	06-02HX	HX	201	18.7	0	29588	28492
Augusta	06-10HX	HX	187	14.6	<1	27177	26520
Augusta	07 08	Conventional	206	19.2	0	31779	30136
Augusta	07-007	Conventional	231*	14.9	0	28492	28273
Augusta	07-14HX	HX	207	15.1	0	27177	27177
Augusta	5338PLRR	CB RW RR	230*	15.2	0	27615	27615
Campbell⁵	7700R2	CB RR	200	15.5	0	25862	25972
Dekalb	DKC64-23 (RR2/YGRW)	RW RR	222*	14.9	0	30903	29259
Doebler's	856XRR	RR	209	20.0	<1	29588	28711
Garst	8343YPL/RR	CB RW RR	204	16.8	0	31560	31341
Growmark FS	6474XRR	CB RW RR	198	13.6	0	30683	29478
Pioneer⁵	33H26	HX RR	215*	16.9	<1	29368	28382
Southern States	746RR2YGCB	CB RR	204	16.2	1	27615	27177
Southern States	777RR2YGPL	CB RW RR	211	16.4	0	26738	25873
Southern States	783RR2YGCB	CB RR	195	17.2	<1	28710	28273
T.A. Seeds	TA777-11	CB LL	221*	14.3	1	27615	27725
T.A. Seeds	TA780-01	CB	237*	15.9	0	29368	28930
T.A. Seeds	TA788-11	CB LL	228*	18.0	1	31560	31122
	Trial Mean		211	16.3	0.2	28967	28359
	LSD_{0.10}		22.9	2.8			
	CV%		12.6%	13.8			

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 16. Performance of early season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerged	Harvested
Adler	3515 RRBT	CB RR	66	23.5	0	28053	28082
Augusta	3387	Conventional	84	23.4	2	27834	26958
Augusta	03-84PLRR	CB RW RR	88	29.2	2	28930	27070
Augusta	05-30PLRR	CB RW RR	96	27.3	<1	27396	27506
Augusta	06-05GT	RR	74	20.5	2	25423	23232
Augusta	06-07CB	CB	104*	25.6	0	28273	28382
Augusta	06-11HX	HX	77	25.2	0	23889	25421
Augusta	06-35CB	CB	109*	24.0	0	26958	25864
Augusta	06-62HX	HX	81	26.0	<1	26519	24109
Augusta	07-12PLRR	CB RW RR	93	22.1	0	25204	25862
Augusta	2744RRCB	CB RR	87	22.0	0	26081	26958
Augusta	4495RRCB	CB RR	73	23.2	0	28711	26848
Augusta	5160CB	CB	79	23.0	0	27177	26739
Augusta	5175CB	CB	76	26.5	<1	29588	28273
Augusta	5231CB	CB	117*	27.9	<1	25862	27177
Augusta⁵	5234PLRR	CB RW RR	95	31.8	0	26081	26254
Augusta⁵	3387RRCB	CB RR	88	24.5	0	24328	24551
Dekalb	DKC57-47 (RR2)	RR	62	21.0	<1	29807	27196
Dekalb	DKC61-22 (RR2)	RR	106*	28.2	<1	29368	27287
Doebler's	555XY	Conventional	84	22.2	2	28492	27862
Doebler's	648ARB	CB RR	78	26.6	2	25423	24547
Doebler's	660BWR	CB RW RR	57	28.6	2	29588	26739
Pioneer⁵	36W66	Conventional	62	19.0	<1	26081	25628
T.A. Seeds	TA555-13	CB RW RR	109*	22.0	0	27177	24985
T.A. Seeds	TA570-11	CB LL	68	24.2	0	26738	24876
Trisler	5A01RRCB	CB RR	79	22.8	0	26081	25752
Trisler	5N52PLRR	CB RW RR	101*	23.4	0	27615	26980
	Means		84.7	24.6	1	27136	26643
	LSD_{0.10}		20.9	2.3			
	CV%		24.7	13.7			

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 17. Performance of mid-season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerg ed	Harvested
Adler	4740 YGPL	CB RW RR	87	25.5	0	25204	23890
Augusta	5337	Conventional	89	29.8	2	26958	27177
Augusta	06 06	Conventional	105*	30.2	0	27615	26520
Augusta	06-04HX	HX	98	29.3	0	25862	25643
Augusta	06-08HX	HX	91	26.7	5	26300	27177
Augusta	06-09HX	HX	97	29.4	4	28053	26520
Augusta	07 09	Conventional	103	26.6	5	27396	25103
Augusta	07-20		104	31.9	0	27177	24939
Augusta	07-21		69	29.0	3	28273	26958
Augusta	5252HX	HX	77	28.4	0	26958	26189
Augusta	5262PLRR	CB RW RR	110*	27.9	0	31560	29476
Augusta	5337RRCB	CB RR	102	31.3	0	24766	24985
Dekalb	DKC61-73 (RR2/YGCB)	CB RR	100	30.3	0	26081	26672
Dekalb	DKC63-42 (VT3)	CB RW RR	112*	29.6	0	28930	29244
Dekalb	RX754RR2/YGPL	CB RW RR	99	29.3	0	26519	26300
Doebler's⁵	648RYG	CB RR	86	25.9	0	26738	24766
Doebler's	785RB	CB RR	103	32.0	0	25862	25643
Doebler's	786BVR	CB RW RR	83	30.3	0	26958	26520
Freedom	580 CB LL	CB LL	99	26.4	0	24328	23890
Garst	8353CB/LL	CB LL	96	28.0	0	29588	28711
Garst	8452CB/LL	CB LL	97	27.0	0	26300	26488
Growmark FS⁵	6103	CB RW	91	25.6	0	26738	26520
Growmark FS	6241XRR	CB RW RR	102	33.4	0	27396	27341
Growmark FS	6277XRR	CB RW RR	87	24.2	0	28492	27091
Growmark FS	6363XRR	CB RR	100	33.5	0	26300	26081
NK	N64-Z5	CB LL	111*	26.8	0	26300	28230
NK	N68-B8	CB LL	96	23.7	0	28492	27615
NK	N72-L2	CB RW LL	112*	27.3	0	30683	30465
NK	N75-A4	CB LL	120*	30.1	0	23889	24054
NK⁵	N65-C5	CB LL	97	26.1	0	29149	28930
Pioneer⁵	34P88	Conventional	96	26.0	0	24985	25112
Southern States	647VT3	CB RW RR	87	24.8	0	28492	28492
Southern States	E 95048	CL	87	26.7	0	26958	25862
T.A. Seeds	TA607-11	CB LL	119*	24.6	0	24328	25008
T.A. Seeds	TA678-13	CB RW RR	80	24.1	0	24328	23052
T.A. Seeds	TA688-11	CB LL	112*	23.9	0	25862	26979
Trisler	6A02RRCB	CB RR	102	30.4	0	26519	26558
Trisler	7A01VT3	CB RW RR	107*	27.8	0	27177	27396
Trisler	7N51PLRR	CB RW RR	91	27.5	0	27396	28054
Trisler	7N53RRCB	CB RR	96	29.0	0	29368	28853
Trisler	8A04PLRR	CB RW RR	93	30.1	0	27834	28711
Trisler	8A03PLRR	CB RW RR	88	32.3	0	28053	27615
	Means		97.1	28.2	<1	27051	27045
	LSD_{0.10}		15.4	2.5			
	CV%		21.6	10.9			

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 18. Performance of full season hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerged	Harvested
Augusta	06-02HX	HX	68	35.0	1	24766	23599
Augusta	06-10HX	HX	88*	34.4	1	28492	26958
Augusta	07 08	Conventional	66	33.4	0	26081	23890
Augusta	07-007	Conventional	97*	33.4	0	25423	24062
Augusta	07-14HX	HX	94*	31.3	0	27615	27350
Augusta	5338PLRR	CB RW RR	81	32.9	1	25423	25643
Campbell⁵	7700R2	CB RR	90*	33.2	1	30026	28930
Dekalb	DKC64-23 (RR2/YGRW)	RW RR	90*	32.6	0	27834	26520
Doebler's	856XRR	RR	100*	35.2	1	30683	27177
Garst	8343YPL/RR	CB RW RR	73	34.3	0	28930	28054
Growmark FS	6474XRR	CB RW RR	82	28.4	1	28930	30026
Pioneer⁵	33H26	HX RR	104*	31.3	0	30026	28930
Southern States	746RR2YGCB	CB RR	95*	35.8	0	27615	27615
Southern States	777RR2YGPL	CB RW RR	91*	32.0	0	22136	21259
Southern States	783RR2YGCB	CB RR	74	33.2	0	26958	24906
T.A. Seeds	TA777-11	CB LL	87	31.5	0	25204	24328
T.A. Seeds	TA780-01	CB	102*	32.8	0	26300	26081
T.A. Seeds	TA788-11	CB LL	104*	32.5	0	30245	30245
	Means		88.8	32.9	<1	27213	26299
	LSD_{0.10}		16.2	1.3			
	CV%		21.8	6.1			

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 19. Performance of early season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerged	Harvested
Adler	3515 RRBT	CB RR	83*	19.4	0	26649	26939
Augusta	3387	Conventional	95*	19.9	0	20727	22070
Augusta	03-84PLRR	CB RW RR	84*	21.0	0	25282	24110
Augusta	05-30PLRR	CB RW RR	87*	18.7	1	27332	27847
Augusta	06-05GT	RR	85*	15.5	0	24143	25253
Augusta	06-07CB	CB	102*	17.7	0	24827	26157
Augusta	06-11HX	HX	60	16.2	0	25282	26428
Augusta	06-35CB	CB	75	19.1	0	27104	25918
Augusta	06-62HX	HX	74	14.1	0	26421	26840
Augusta	07-12PLRR	CB RW RR	93*	15.0	0	25510	28542
Augusta	2744RRCB	CB RR	76	16.0	1	23916	23900
Augusta	4495RRCB	CB RR	88*	14.4	0	27104	27177
Augusta	5160CB	CB	50	17.2	0	28015	27822
Augusta	5175CB	CB	77	17.6	0	25738	26604
Augusta	5231CB	CB	97*	16.6	0	27778	27470
Augusta⁵	5234PLRR	CB RW RR	88*	20.0	0	23916	25012
Augusta⁵	3387RRCB	CB RR	99*	17.4	1	29382	24267
Dekalb	DKC57-47 (RR2)	RR	69	14.6	0	25054	24805
Dekalb	DKC61-22 (RR2)	RR	72	18.4	0	26876	26091
Doebler's	555XY	Conventional	109*	15.7	0	26649	25926
Doebler's	648ARB	CB RR	64	18.8	0	27104	26096
Doebler's	660BWR	CB RW RR	72	18.0	0	26193	26157
Pioneer⁵	36W66	Conventional	69	13.7	0	28471	25723
T.A. Seeds	TA555-13	CB RW RR	79	15.7	1	24940	24391
T.A. Seeds	TA570-11	CB LL	59	14.3	0	25738	25340
Trisler	5A01RRCB	CB RR	78	12.4	0	25738	25201
Trisler	5N52PLRR	CB RW RR	55	15.4	1	24371	22619
	Trial Mean		80.3	16.8	<1	25948	25746
	LSD_{0.10}		26.2	2.3			
	CV%		46.5	15.6			

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 20. Performance of mid-season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						EmergEd	Harvested
Adler	4740 YGPL	CB RW RR	118	18.2	0	24926	25528
Augusta	5337	Conventional	114	23.9	1	26580	26204
Augusta	06 06	Conventional	129	22.4	0	26199	24988
Augusta	06-04HX	HX	112	21.0	2	27672	27419
Augusta	06-08HX	HX	115	22.0	0	28031	25734
Augusta	06-09HX	HX	128	21.8	0	27251	28770
Augusta	07 09	Conventional	112	20.7	1	23890	25438
Augusta	07-20		109	18.8	0	23101	24157
Augusta	07-21		107	19.7	1	26405	25228
Augusta	5252HX	HX	96	22.0	1	28969	26569
Augusta	5262PLRR	CB RW RR	106	20.4	1	27922	27419
Augusta	5337RRCB	CB RR	126	23.4	1	25569	25100
Dekalb	DKC61-73 (RR2/YGCB)	CB RR	119	18.3	1	27653	26609
Dekalb	DKC63-42 (VT3)	CB RW RR	127	18.9	<1	26866	26879
Dekalb	RX754RR2/YGPL	CB RW RR	119	20.9	1	28060	25933
Doebler's⁵	648RYG	CB RR	106	19.0	0	26158	25910
Doebler's	785RB	CB RR	94	23.5	0	25512	25393
Doebler's	786BVR	CB RW RR	111	22.6	0	27426	27647
Freedom	580 CB LL	CB LL	125	18.2	0	26414	25490
Garst	8353CB/LL	CB LL	111	19.4	0	25988	26011
Garst	8452CB/LL	CB LL	113	21.0	0	27412	25438
Growmark FS⁵	6103	CB RW	125	20.5	0	29159	26609
Growmark FS	6241XRR	CB RW RR	114	24.8	0	26583	24583
Growmark FS	6277XRR	CB RW RR	90	17.6	0	26587	26474
Growmark FS	6363XRR	CB RR	123	23.7	0	24496	24795
NK	N64-Z5	CB LL	119	18.4	2	26610	25785
NK	N68-B8	CB LL	103	19.1	0	26376	25123
NK	N72-L2	CB RW LL	128	19.6	<1	25388	26744
NK	N75-A4	CB LL	119	21.6	1	25962	24900
NK⁵	N65-C5	CB LL	122	18.5	0	27472	27689
Pioneer⁵	34P88	Conventional	101	21.1	1	24956	24537
Southern States	647VT3	CB RW RR	89	18.6	1	27455	25528
Southern States	E 95048	CL	112	19.6	<1	26836	25474
T.A. Seeds	TA607-11	CB LL	102	17.4	1	24727	22346
T.A. Seeds	TA678-13	CB RW RR	102	18.8	0	25559	24313
T.A. Seeds	TA688-11	CB LL	125	20.1	1	22835	24810
Trisler	6A02RRCB	CB RR	123	19.3	1	25765	25599
Trisler	7A01VT3	CB RW RR	127	19.9	1	27892	26204
Trisler	7N51PLRR	CB RW RR	129	17.5	1	27902	26879
Trisler	7N53RRCB	CB RR	127	19.7	1	25645	25960
Trisler	8A04PLRR	CB RW RR	117	19.8	0	29171	27419
Trisler	8A03PLRR	CB RW RR	127	23.5	0	27427	25663
	Trial Mean		115.4	20.4	<1	26555	25971
	LSD_{0.10}		NS	1.8			
	CV%		17.7	12.6			

¹See Table 5 for hybrid type code designations for mid-season hybrids.

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 21. Performance of full season hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population ⁴ (plants/A)	
						Emerged	Harvested
Augusta	06-02HX	HX	81	25.8	0	23688	24859
Augusta	06-10HX	HX	100	20.8	1	25054	25483
Augusta	07 08	Conventional	103*	23.8	0	23460	24527
Augusta	07-007	Conventional	115*	20.0	0	26421	26300
Augusta	07-14HX	HX	113*	21.4	0	25738	24160
Augusta	5338PLRR	CB RW RR	81	21.1	0	25738	27157
Campbell⁵	7700R2	CB RR	59	23.1	1	23460	23732
Dekalb	DKC64-23 (RR2/YGRW)	RW RR	112*	20.2	1	27788	25781
Doebler's	856XRR	RR	97	22.6	1	28471	26790
Garst	8343YPL/RR	CB RW RR	95	23.7	0	25738	24819
Growmark FS	6474XRR	CB RW RR	87	18.2	0	30065	28346
Pioneer⁵	33H26	HX RR	127*	19.9	0	24827	26160
Southern States	746RR2YGCB	CB RR	94	22.4	0	26421	25853
Southern States	777RR2YGPL	CB RW RR	98	20.9	0	25054	25741
Southern States	783RR2YGCB	CB RR	78	19.0	0	28471	26134
T.A. Seeds	TA777-11	CB LL	120*	20.9	1	25054	24135
T.A. Seeds	TA780-01	CB	98	20.4	0	25738	25969
T.A. Seeds	TA788-11	CB LL	109*	20.9	1	27560	27144
	Trial Mean		98.3	21.4	<1	26041	25727
	LSD_{0.10}		26.2	2.5			
	CV%		28.7	11.4			

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

²Yields are reported at 15.5% moisture content.

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

⁴Population assessments were taken approximately three-weeks post planting and just prior to harvest. Greater harvest populations are occasionally reported due to different harvest rows selection at the time of harvest assessment.

⁵Hybrids in **bold** are check hybrids included with funding from the Maryland Grain Producers' Utilization Board.

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

Table 22. Relative yield scores for early-season hybrids evaluated at five locations in Maryland during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type	Relative Yield %					
			Average 5 Locations	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Adler	3515 RRBT	CB RR	104.4	114.2	102.4*	124.2*	103.4*	77.9
Augusta	3387	Conventional	101.9	88.3	107.7*	96.1	118.3*	99.2
Augusta	03-84PLRR	CB RW RR	101.3	97.2	99.0	101.5	104.6*	103.9
Augusta	05-30PLRR	CB RW RR	108.6	102.4	106.7*	112.4*	108.3*	113.3
Augusta	06-05GT	RR	89.8	92.0	89.5	74.3	105.9*	87.4
Augusta	06-07CB	CB	113.6	99.4	107.2*	111.5*	127.0*	122.8*
Augusta	06-11HX	HX	88.1	87.5	95.7	91.6	74.7	90.9
Augusta	06-35CB	CB	104.9	105.3	100.0*	97.0	93.4	128.7*
Augusta	06-62HX	HX	98.1	99.4	97.1	106.1	92.2	95.6
Augusta	07-12PLRR	CB RW RR	105.2	100.9	97.1	102.4	115.8*	109.8
Augusta	2744RRCB	CB RR	98.9	100.9	93.8	102.4	94.6	102.7
Augusta	4495RRCB	CB RR	94.7	95.0	99.5	83.4	109.6*	86.2
Augusta	5160CB	CB	93.2	100.9	97.1	112.4*	62.3	93.3
Augusta	5175CB	CB	97.5	100.9	106.7*	94.3	95.9	89.7
Augusta	5231CB	CB	110.1	98.7	103.8*	88.8	120.8*	138.1*
Augusta⁵	5234PLRR	CB RW RR	102.1	97.2	95.7	96.1	109.6*	112.2
Augusta⁵	3387RRCB	CB RR	108.8	106.8	101.9*	107.9	123.3*	103.9
Dekalb	DKC57-47 (RR2)	RR	85.5	92.7	95.7	79.8	85.9	73.2
Dekalb	DKC61-22 (RR2)	RR	105.0	111.3	101.0*	97.9	89.7	125.1*
Doebler's	555XY	Conventional	102.2	97.2	89.0	89.8	135.7*	99.2
Doebler's	648ARB	CB RR	93.6	101.6	102.9*	91.6	79.7	92.1
Doebler's	660BWR	CB RW RR	97.3	110.5	108.6*	110.6*	89.7	67.3
Pioneer⁵	36W66	Conventional	92.0	103.1	100.0*	97.9	85.9	73.2
T.A. Seeds	TA555-13	CB RW RR	106.2	105.3	98.1	100.6	98.4	128.7*
T.A. Seeds	TA570-11	CB LL	86.3	81.6	97.1	98.8	73.5	80.3
Trisler	5A01RRCB	CB RR	103.9	116.5	100.0*	112.4*	97.1	93.3
Trisler	5N52PLRR	CB RW RR	100.5	95.7	102.9*	116.0*	68.5	119.2*
	Trial Mean (bu/acre)		123.8	134.8	209	110.2	80.3	84.7

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

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

Table 23. Relative yield scores for mid-season hybrids evaluated at five locations in Maryland during 2007.

Brand/Company Name	Hybrid Name	Hybrid Type	Relative Yield %					
			Average 5 Locations	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Adler	4740 YGPL	CB RW RR	89.4	74.7	86.5	94.1	102.3	89.6
Augusta	5337	Conventional	102.9	103.4	111.2	109.5*	98.8	91.7
Augusta	06 06	Conventional	102.9	92.1	98.1	104.4	111.8	108.1*
Augusta	06-04HX	HX	96.5	89.5	100.9	94.1	97.1	100.9
Augusta	06-08HX	HX	100.6	102.5	107.0	100.1	99.7	93.7
Augusta	06-09HX	HX	101.3	104.3	94.0	97.5	110.9	99.9
Augusta	07 09	Conventional	98.1	86.9	102.3	98.4	97.1	106.1
Augusta	07-20		104.6	105.1	99.1	117.2*	94.5	107.1
Augusta	07-21		82.8	79.1	91.6	79.6	92.7	71.1
Augusta	5252HX	HX	88.9	99.0	102.8	80.4	83.2	79.3
Augusta	5262PLRR	CB RW RR	101.5	99.0	101.4	101.8	91.9	113.3*
Augusta	5337RRCB	CB RR	102.5	91.2	104.2	102.7	109.2	105.0
Dekalb	DKC61-73 (RR2/YGCB)	CB RR	105.1	117.3	97.7	104.4	103.1	103.0
Dekalb	DKC63-42 (VT3)	CB RW RR	108.2	96.4	119.1	100.1	110.1	115.3*
Dekalb	RX754RR2/YGPL	CB RW RR	95.2	79.1	96.3	95.8	103.1	102.0
Doebler's⁵	648RYG	CB RR	95.6	77.3	112.6	107.8*	91.9	88.6
Doebler's	785RB	CB RR	98.6	98.2	98.6	108.6*	81.5	106.1
Doebler's	786BVR	CB RW RR	94.7	88.6	103.3	100.1	96.2	85.5
Freedom	580 CB LL	CB LL	100.4	99.9	98.6	93.2	108.3	102.0
Garst	8353CB/LL	CB LL	100.8	99.9	101.4	107.8*	96.2	98.9
Garst	8452CB/LL	CB LL	99.9	101.7	96.7	103.5	97.9	99.9
Growmark FS⁵	6103	CB RW	104.8	109.5	98.6	113.8*	108.3	93.7
Growmark FS	6241XRR	CB RW RR	101.3	119.9	87.9	95.0	98.8	105.0
Growmark FS	6277XRR	CB RW RR	90.9	92.1	100.9	94.1	78.0	89.6
Growmark FS	6363XRR	CB RR	102.3	113.8	94.0	94.1	106.6	103.0
NK	N64-Z5	CB LL	111.6	120.8	108.4	111.2*	103.1	114.3*
NK	N68-B8	CB LL	102.5	110.3	108.8	105.2*	89.3	98.9
NK	N72-L2	CB RW LL	107.1	113.8	97.7	97.5	110.9	115.3*
NK	N75-A4	CB LL	107.7	103.4	99.5	108.6*	103.1	123.6*
NK⁵	N65-C5	CB LL	103.7	105.1	107.9	100.1	105.7	99.9
Pioneer⁵	34P88	Conventional	96.7	97.3	98.1	101.8	87.5	98.9
Southern States	647VT3	CB RW RR	93.8	98.2	105.1	99.2	77.1	89.6
Southern States	E 95048	CL	98.5	103.4	104.2	98.4	97.1	89.6
T.A. Seeds	TA607-11	CB LL	101.4	107.7	98.6	89.8	88.4	122.6*
T.A. Seeds	TA678-13	CB RW RR	89.7	86.9	93.5	97.5	88.4	82.4
T.A. Seeds	TA688-11	CB LL	105.9	97.3	105.1	103.5	108.3	115.3*
Trisler	6A02RRCB	CB RR	103.8	112.1	95.8	99.2	106.6	105.0
Trisler	7A01VT3	CB RW RR	102.0	99.0	94.9	95.8	110.1	110.2*
Trisler	7N51PLRR	CB RW RR	101.8	120.8	91.2	91.5	111.8	93.7
Trisler	7N53RRCB	CB RR	102.6	105.1	95.3	103.5	110.1	98.9
Trisler	8A04PLRR	CB RW RR	97.1	93.0	93.5	101.8	101.4	95.8
Trisler	8A03PLRR	CB RW RR	96.5	79.9	95.8	106.1*	110.1	90.6
Trial Mean (bu/acre)			131.9	115.1	215	116.9	115.4	97.1

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

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

Table 24. Relative yield scores for full-season hybrids evaluated at five locations in Maryland during 2007.

Brand/Company Name	Hybrid Name		Relative Yield %					
			Average 5 Locations	Wye	Salisbury	Poplar Hill	Clarksville	Keedysville
Augusta	06-02HX	HX	87.2	88.0	94.8	93.6	82.4	77.2
Augusta	06-10HX	HX	93.8	99.3*	88.2	80.0	101.7	99.9*
Augusta	07 08	Conventional	92.6	91.8	97.2	94.5	104.8*	74.9
Augusta	07-007	Conventional	110.3	107.6*	109.0*	108.1*	117.0*	110.1*
Augusta	07-14HX	HX	102.9	94.8	97.6	100.4	115.0*	106.7*
Augusta	5338PLRR	CB RW RR	96.1	94.8	108.5*	103.0	82.4	91.9
Campbell⁵	7700R2	CB RR	94.0	106.1*	94.3	107.2*	60.0	102.2*
Dekalb	DKC64-23 (RR2/YGRW)	RW RR	107.8	115.9*	104.7*	102.1	113.9*	102.2*
Doebler's	856XRR	RR	105.0	113.6*	98.6	100.4	98.7	113.5*
Garst	8343YPL/RR	CB RW RR	87.9	83.5	96.2	80.0	96.6	82.9
Growmark FS	6474XRR	CB RW RR	87.9	82.8	93.4	81.7	88.5	93.1
Pioneer⁵	33H26	HX RR	113.8	110.6*	101.4*	109.8*	129.2*	118.0*
Southern States	746RR2YGCB	CB RR	104.5	112.1*	96.2	110.6*	95.6	107.8*
Southern States	777RR2YGPL	CB RW RR	101.7	103.8*	99.5	102.1	99.7	103.3*
Southern States	783RR2YGCB	CB RR	84.6	76.0	92.0	91.9	79.3	84.0
T.A. Seeds	TA777-11	CB LL	107.8	102.3*	104.2*	111.5*	122.1*	98.8
T.A. Seeds	TA780-01	CB	110.7	110.6*	111.8*	115.7*	99.7	115.8*
T.A. Seeds	TA788-11	CB LL	109.5	104.6*	107.5*	106.4	110.9*	118.0*
	Trial Mean (bu/acre)		129.7	132.9	211	117.5	98.3	88.4

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

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

Table 25. Relative yield¹ for 25 corn hybrids evaluated in Maryland for the past two or three years (2005-2007). Consistent relative yield ratings of 100 or greater across locations indicate that a hybrid is well adapted to Maryland environments.

Brand/Company Name	Hybrid Name	Wye			Poplar Hill			Salisbury			Keedysville			Clarksville			No. Times > Mean ²
		2005	2006	2007	2005	2006	2007	2005	2006	2007	2005	2006	2007	2005	2006	2007	
Augusta	3387	NT ³	112	88	NT	99	96	NT	106	108*	NT	89	99	NT	110	118*	5-10
Augusta	5337	108*	108*	103	108*	97	110*	112*	89	111	103	106	92	123*	117	99	11-15
Augusta	05-30PLRR	NT	105	102	NT	102	112*	NT	95	107*	NT	98	113	NT	100	108*	8-10
Augusta	06-02HX	NT	92	88	NT	100	94	NT	87	95	NT	97	77	NT	96	82	1-10
Augusta	06-04HX	NT	92	90	NT	104*	94	NT	113	101	NT	113	101	NT	113	97	6-10
Augusta	06-05GT	NT	89	92	NT	85	74	NT	91	90	NT	120*	87	NT	94	106*	2-10
Augusta	06-06	NT	101*	92	NT	95	104	NT	101	98	NT	82	108*	NT	90	112	5-10
Augusta	06-08HX	NT	104	103	NT	103*	100	NT	101	107	NT	104	94	NT	108	100	9-10
Augusta	06-09HX	NT	91	104	NT	95	98	NT	96	94	NT	88	100	NT	108	111	4-10
Augusta	06-10HX	NT	103*	99*	NT	106*	80	NT	101	88	NT	95	100*	NT	105	102	6-10
Augusta	06-11HX	NT	87	88	NT	97	92	NT	104	96	NT	85	91	NT	99	75	1-10
Augusta	06-35CB	NT	103	105	NT	101*	97	NT	105	100*	NT	115*	129*	NT	103	93	8-10
Augusta	5160CB	NT	98	101	NT	102*	112*	NT	98	97	NT	112*	93	NT	90	62	4-10
Augusta	5175CB	NT	112*	101	NT	102*	94	NT	87	107*	NT	96	90	NT	92	96	4-10
Augusta	5231CB	NT	114*	99	NT	111*	89	NT	99	104*	NT	108*	138*	NT	110	121*	7-10
Augusta	5234PLRR	NT	109*	97	NT	104*	96	NT	104	96	NT	112*	112	NT	106	110*	7-10
Augusta	5262PLRR	NT	105*	99	NT	106*	102	NT	98	101	NT	104	113*	NT	101	92	7-10
Augusta	5337RRCB	NT	105*	91	NT	106*	103	NT	98	104	NT	104	105	NT	101	109	8-10
Augusta	5338PLRR	NT	100*	95	NT	93	103	NT	111	109*	NT	100	92	NT	109	82	6-10
Doebler's	648RYG	108*	104*	77	102	106*	108*	101*	114	113	95	123	89	97	89	92	9-15
Growmark FS	6103	110*	108*	110	96	99*	114*	100*	116	99	118*	103	94	106	116	108	11-15
Growmark FS	6363XRR	NT	99	114	NT	85	94	NT	104	94	NT	113	103	NT	89	107	5-10
NK Brand	N65-C5	115*	104*	105	107*	102*	100	109*	103	108	114*	107	100	108	93	106	14-15
NK Brand	N68-B8	NT	108*	110	NT	107*	105*	NT	118	109	NT	98	99	NT	114	89	7-10
Southern States	777RR2YGPL	NT	92	104*	NT	113*	102	NT	104	100	NT	101	103*	NT	111	100	9-10
Location Mean (bu/acre)		177	205	125	171	178	115	157	138	213	133	99	92	195	143	101	

¹Relative yield = (hybrid mean / year location mean) x 100.

²This column indicates the number of locations (10 for two years and 15 over three years) that a hybrid had relative yield 100 or greater.

³NT = hybrid not tested

*Indicates that the yield of the hybrid was not significantly different from the highest yielding hybrid at that location.