

2005 Maryland Corn Hybrid Performance Tests

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Test Procedures

A fee-based, performance-testing program for corn hybrids is offered to seed corn companies by the Maryland Cooperative Extension and Agricultural Experiment Station at the University of Maryland. The Extension Specialist for grain and oil crops is Director of these tests. The results from these replicated trials provide Maryland corn producers with agronomic performance information 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 also summarizes the important agronomic and production information for each test site.

Hybrids tested during 2005 were submitted in three ways. First, participating seed companies (Table 2) were solicited regarding hybrids they wanted to test under 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 2004 were included in their respective 2005 tests, gratis. These hybrids also were used as check hybrids.

During 2005, 91 hybrids were tested in one of three maturity group tests: (1) early season (22 hybrids); (2) mid season (48 hybrids); and (3) full season (21 hybrids). 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 that were submitted by the seed companies had Bt and/or Roundup-Ready technology incorporated in their genetics. Additionally, there were some stacked gene hybrids.

Hybrids were grouped according to maturity, randomized within their appropriate maturity group and replicated three times per location. The tests were planted with a Wintersteiger Plotking 2600 Precision Air Planter. Each plot was approximately 32 feet long and consisted of four rows spaced 30 inches apart. The seeding rate target was 28,000 seeds/acre. Each plot was trimmed to a length of 26 feet (harvest length) prior to the onset of the reproductive growth stage. Harvest population and number of lodged plants per plot were counted within one week of harvest and frequently this occurred the same day as harvest. The center two rows of each plot were harvested to obtain the yield measurement and the harvest moisture content of the grain. These data were collected with the aid of a HarvestMaster HM 1000 Grain Gauge and recorded on an Allegro Field PC.

Growing Season

In contrast to the mostly favorable growing conditions for corn during 2004, the 2005 growing season was highlighted by extremes in temperature and precipitation. Winter precipitation for much of the state was near normal between January and April creating topsoil and subsoil moisture conditions considered mostly adequate but in some instances surplus entering the spring planting season. Precipitation totals for the growing season (April-September) for each of the test sites can be found in Table 3. Abnormally warm temperatures during mid-April allowed soil temperatures to warm allowing corn planting to begin. Nearly 30% of the crop was planted by May 1. Cooler weather accompanied the arrival of May but planting progress continued because little to no rainfall was received during the first half of May. By May 15 over 70% of the crop was planted according to Maryland Agricultural Statistics Service. The third week of May continued with cooler than normal temperatures accompanied with statewide rainfall however, 85% of the crop was in the ground by May 22. The cooler than normal May temperatures slowed both germination and seedling growth causing the crop to be a week to 10 days behind normal on June 1. Fortunately, the cooler temperatures were accompanied with relatively dry conditions that supported suitable stand establishment.

Much warmer temperatures arrived with June allowing the crop to grow at a more normal pace. Most areas had adequate soil moisture to support the rapid growth during this period however, there were pockets in the state that were not as fortunate resulting in some moisture stress for the crop, particularly

in the regions of Western and Southern Maryland. Throughout most of the summer, above-normal temperatures prevailed. These hot temperatures would have been especially detrimental during pollination and fertilization if it had not been for the extremely wet July that most of the state experienced. Record levels of precipitation that were between 2 and 3 times the average rainfall fell in most areas during the month. Adequate soil moisture carried the crop through most of its grain fill stages and into August when the rainfall stopped for much of the state. A record dry latter half of August and month of September accompanied with above-average temperatures allowed the crop to complete grain fill and reach maturity earlier than anticipated based upon its slow start. Harvest of the crop was well underway by mid-September and excellent harvest weather throughout September and early October allowed over 60% of the crop to be harvested by October 10 and an estimated 80% of the crop to be in the bin by October 24.

Test Results

The performance of the hybrids in the 2005 State Corn Hybrid Tests (Tables 4-18) 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 was 162 bu/acre (early season hybrids) and 167 bu/acre (mid-season hybrids) or approximately 20 bu/acre less than was attained for those maturity groups during 2004. Over those same locations, the full season hybrids averaged 170 bu/acre or 23 bu/acre less than realized by that maturity group during 2004.

The agronomic characteristics reported are yield in bushels/acre at 15.5% moisture content, harvest moisture content, lodging score and harvest population. There was some lodging (2-10% on average) recorded at all locations this year. Since the majority of the hybrids tested had genetic tolerance to European corn borer, little of the lodging damage is attributed to that pest. A very small amount of the lodging was in the form of goose-necking that may have been the result of corn rootworm damage. Most of the lodging that was observed was the result of stalk rots. A least significant difference (LSD) value is reported for yield for each test where statistically significant differences for that trait 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.

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 2005 (Tables 18-21) are included. Relative yield is the ratio of the yield of a hybrid at a location to the mean yield of all the hybrids at that location expressed in percentage. A hybrid that has relative yield scores consistently greater than 100 across the testing locations can be considered to have good hybrid stability. New for 2005 is the inclusion of Table 22 that reports relative yield values for all hybrids that have been included in the tests during the past two years. Of particular interest in this table is the furthest right column that identifies the number of times that a hybrid had a yield that was not significantly different from the best producing hybrid that location and year. This table provides additional information regarding hybrid stability that a producer can use.

Acknowledgments

The University of Maryland Grain and Oil Crops Program recognizes the staffs at each of the farm locations (Table 2) for their assistance with land preparation, planting, plot management, harvesting, and equipment maintenance/repair. The contributions of David Armentrout, Kevin Conover, Timothy Ellis, Michael Harrison Jr., David Justice, F. Ronald Mulford, Michael Neimeyer, 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.

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. Maryland corn hybrid test plot management information for 2005.
Wye Research and Education Center, Queenstown, Md.**

Soil type:	Mattapeake silt loam
Previous crop:	Soybeans
Fertilizer:	285 lb/acre 16-8-8 (May 4, 2005) 133 lb/acre N as 30% UAN knifed in (June 9, 2005) Total nutrients = 178-23-23
Herbicides:	Bullet @ 3qt/acre (May 6, 2005) Distinct @ 4 oz/acre (June 17, 2005)
Insecticides:	None
Tillage:	Chisel plow, disk and pack
Planted:	May 4, 2005
Harvested:	September 21, 2005
Farm Crew:	Mark Sultenfuss, Joe Streett and Reese Stafford

Lower Eastern Shore Research and Education Center-Poplar Hill, Quantico, Md.

Soil Type:	Mattapex silt loam
Previous Crop:	Wheat/double crop soybeans
Fertilizer:	Preplant broadcast fertilizer equivalent to 35-30-80-24 lb/acre (N-P-K-S) Sidedress w/ 31 gal./acre of 30% UAN equivalent to 100 lbs N/a.
Herbicides:	Early pre-emergent—Roundup Weathermax @ 28 oz/acre + Princep 4L @ 32 oz/acre + 2,4-D Ester @ 16 oz/acre (2 weeks prior to planting) Pre-emergent—Roundup Weathermax @ 24 oz/acre + MicroTech @ 1.5 qt/acre + Atrazine @ 15 oz/acre (just after planting)
Insecticides:	None
Tillage:	No till - previous crop soybean
Planted:	April 26, 2005
Harvested:	September 20, 2005
Farm Crew:	F. Ronald Mulford, Fred Senkbeil, Mike Senkbeil, and Justin Fontainne

**Table 1 (continued). Maryland corn hybrid test plot management information for 2005.
Lower Eastern Shore Research and Education Center-Salisbury, Salisbury, Md.**

Soil Type: Norfolk loamy sand
 Previous Crop: Wheat cover crop
 Fertilizer: Broadcast - 500 lbs/acre 20-05-15+ S(7.2%)+B(0.2%)
 Sidedressed w/ 19 gal/acre 30% UAN solution (twice)
 Total nutrients = 224-25-75
 Herbicides: Cover Crop Burn Down – Gramoxone (1.5 pt/A); 2,4-D Lo-V Ester (4 oz/A); 80-20 surfactant (4 oz/A)
 Post-emergent – Steadfast 75DF (0.75 oz/A); 80-20 surfactant (4 oz/A); 30% UAN (2 qt/A)
 Post-emergent -- Callisto (2 oz/A); Atrazine (0.5 lb/A); 30% UAN (1 qt/A); Crop Oil (1 pt/A)
 Insecticides: None
 Tillage: No Till
 Planted: April 25, 2005
 Harvested: September 19, 2005
 Farm Crew: David Armentrout, Mike Kelley, James Lynch, Vivian Calder, and Don White

Western Maryland Research and Education Center, Keedysville, Md.

Soil type: Hagerstown silt loam
 Previous crop: Barley and soybeans
 Fertilizer: 325 lb/acre 38.65 – 0 – 0 – 7 on April 7, 2005
 Total nutrients = 126 – 0 – 0 - 23
 Herbicides: 3 qt/acre Lumax and 1 qt/acre Credit Extra (glyphosate) on May 4, 2005
 Tillage: Minimum tillage (disk and pack)
 Planted: May 11, 2005
 Harvested: October 12, 2005
 Farm Crew: Timothy Ellis, David Wyand, Jr. and Douglas Price

Central Maryland Research and Education Center-Clarksville, Clarksville, Md.

Soil type: Delanco silt loam
 Previous crop: Full season soybean (early and full season tests)
 Silage corn (mid season test)
 Fertilizer: 150 lb/acre 7-18-36 preplant
 40 gal/acre 30% UAN applied with herbicides
 Total nutrients = 137–27-54
 Herbicides: 2 qt/acre Bicep II and 1 pt/acre Gramoxone (post-planting)
 4 oz/acre Distinct (post-emergence)
 Insecticides: None
 Tillage: Disk and pack prior to planting
 Planted: May 12, 2005
 Harvested: October 6, 2005
 Farm Crew: David Justice and Timothy Ridgley

Table 2. Seed companies and brands represented in the 2005 Maryland corn hybrid tests.

Brand	Address
Asgrow	Monsanto Company, 800 N. Lindbergh Blvd. St. Louis, MO 63167
Augusta	Augusta Seed Corporation, 473 Tisdale Farm Lane, Staunton, VA 24401
CGF	UniSouth Genetics, Inc. 2640-C Nolensville Rd., Nashville, TN 37211
Clarks	Clark Seeds Inc. P.O. Box 219, 1467 Seven Hickories Rd., Kenton, DE 19955
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
FS Seeds	Growmark FS Inc., 308 N.E. Front St., Milford, DE 19963
Garst	Garst Seed Company, 4850 W 350 N. Danville, IN 46122
NK	Syngenta Seeds Inc., 25 Red Oak Dr., Lititz, PA 17543
Pioneer	Pioneer Hi-bred International, Inc., PO Box 14453, Des Moines, IA 50306
Schillinger Seed	Schillinger Seed, 4200 Corporate Dr., Suite 106, West Des Moines, IA 50266
Southern States	Southern States Coop. Inc., 6606 West Broad St., Richmond, VA 23260
T.A. Seeds	T.A. Seeds, PO Box 300, Avis, PA 17721
Trisler by Augusta	Augusta Seed Corporation, 473 Tisdale Farm Lane, Staunton, VA 24401
Vigoro	Royster-Clark, Inc. 717 Robinson Road SE, Washington C.H., OH 43160

Table 3. Precipitation received at each location where the Maryland Corn Hybrid Tests were conducted during 2005.

Month	Wye	Poplar Hill	Salisbury ¹	Keedysville	Clarksville ²
-----Inches-----					
April	4.93	2.49	2.68(0.3)	3.44	NA
May	4.94	4.94	5.89(0.5)	1.86	2.11
June	2.41	3.84	3.29(1.4)	1.06	3.06
July	5.06	5.01	6.39(2.1)	5.53	9.62
August	5.05	1.86	2.34(0.6)	2.24	3.71
September	1.68	0.39	1.17(0.2)	0.13	0.67
Total	24.07	18.63	21.76(5.1)	14.26	19.17

¹The number in parentheses indicates the amount of supplemental irrigation applied at this test site.

² No weather data was available at Clarksville during 2005. Data reported is for Baltimore-Washington International Airport for period May through September.

Table 4. Performance of early season corn hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Trisler by Augusta	T5253Bt	CB	197.5*	23.4	2.8	24349
Trisler by Augusta	T5244RRCB	CB/RR	196.7*	21.1	0.9	24349
Asgrow	RX 668RR2/YGCB	CB/RR	192.4*	19.1	2.5	26359
Trisler by Augusta	T03-84CB	CB	190.6*	20.3	0.0	21892
Dekalb	DKC 57-84 (YGCB)	CB	185.5*	18.0	0.8	27700
NK Brand	N58-D1⁴	CB/LL	184.1*	17.4	3.5	23902
Trisler by Augusta	T5160CB	CB	183.8*	20.9	1.8	25019
Trisler by Augusta	T05-53CB	CB	183.6*	20.4	0.9	25019
Doebler's	494RYG	CB/RR	182.0*	16.3	0.0	23846
Dekalb	DKC 55-82 (RR2)	RR	177.3	16.1	2.6	25242
Trisler by Augusta	T05-101CRW	RW	174.2	19.3	2.8	23455
Garst	8535YG/IT	CB/IT	172.6	18.6	5.3	24572
Trisler by Augusta	T05-102CB	CB	171.9	20.3	0.0	23902
Doebler's	575XB	CB	171.1	17.2	0.0	24349
Dekalb	DKC 54-51 (YGCB)	CB	169.8	15.6	0.9	25466
Trisler by Augusta	5232BT	CB	168.8	19.3	0.0	25019
Trisler by Augusta	T2744CB	CB	167.9	18.7	4.8	23232
Pioneer	P34M95⁵	CB	165.1	19.1	2.6	24349
Schillinger Seed	SS 610	HX	164.1	17.4	9.2	24126
Trisler by Augusta	T5130	CB	155.3	18.2	1.9	23009
Schillinger Seed	SS 704	Conv.	150.2	18.3	1.9	23902
Doebler's	506XY	Conv.	143.2	17.2	1.8	23679
	Trial Mean		174.9	18.7	2.1	24397
	LSD_{0.10}		15.9	0.9	4.1	1702
	CV%		6.7			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

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

Table 5. Performance of mid season corn hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
FS Seeds	6102	CB	201.0*	21.0	0.0	24126
NK Brand	N65-C5	CB/LL	200.6*	21.2	0.0	24126
Vigoro	V52YR52	CB/RR	199.8*	19.2	2.7	24572
FS Seeds	6407	CB/RW	197.9*	22.3	1.8	25689
Trisler by Augusta	T5337CBRR	CB/RR	193.1*	25.0	0.0	23902
Southern States	670BT	CB	192.2*	22.2	4.9	23679
FS Seeds	6103	CB/RW	191.3*	19.8	0.0	22562
T.A. Seeds	TA6993	CB/RR	190.2*	22.5	1.7	24349
NK Brand	N76-M7	CB/LL	189.3*	21.1	0.0	25689
Doebler's	648RYG	CB/RR	188.7*	20.7	0.0	22562
Augusta	5337	Conv.	188.6*	24.3	6.1	25242
Southern States	605CL	IT	185.9*	20.2	3.5	25242
NK Brand	N70-F1	CB/LL	185.0*	22.5	1.8	24796
FS Seeds	6406	CB	183.8*	22.7	1.9	24349
Trisler by Augusta	T-04-59CB	CB	182.2*	23.5	4.4	25242
Vigoro	V50Y51	CB	181.4	20.8	0.9	24572
Trisler by Augusta	T0319CB	CB	178.9	23.9	0.0	23902
Schillinger Seed	SS 811Hx	HX	178.6	21.4	1.9	24796
Trisler by Augusta	T5240CB	CB	178.4	18.8	0.9	25913
FS Seeds	6052	Conv.	178.2	19.5	0.9	24796
Clarks	CL 810	CB	177.8	20.3	0.0	23679
NK Brand	N72-G8	Conv.	177.2	19.9	29.9	26583
Trisler by Augusta	T0469CB	CB	176.7	22.5	0.0	22785
Trisler by Augusta	T5255RRCB	CB/RR	174.6	24.4	0.9	24796
Dekalb	DKC 61-72 (RR2)	RR	173.9	19.0	6.0	25913
Augusta	4587	Conv.	172.6	21.5	17.5	24796
UniSouth Genetics	FB 854	Conv.	172.2	23.0	14.5	21892
Dekalb	DKC 61-45⁴ (RR2/YGCB)	CB/RR	171.4	17.8	2.8	24126
Trisler by Augusta	T5257RRCB	CB/RR	170.6	23.9	4.8	23679
Doebler's	575XB	CB	167.8	15.5	0.9	24796
NK Brand	N69-P9	Conv.	166.6	21.5	11.2	23679
Augusta	4487⁴	Conv.	166.1	20.7	2.9	24126
Garst	8454YG1	CB	166.1	19.9	0.0	24572
Vigoro	V5240	Conv.	165.8	20.3	0.9	25019
T.A. Seeds	TA5753	CB/RR	164.0	16.6	0.0	19881
Vigoro	V54Y61	CB	163.3	19.1	7.5	25913
Clarks	CL 711	Conv.	163.0	20.3	1.9	23902
Pioneer	P33B51⁵	CB	162.0	21.4	0.9	24349
Southern States	692BT	CB	160.8	21.0	0.0	24349
Schillinger Seed	SS 742	Conv.	160.6	18.8	6.9	26359
Dekalb	DKC 63-81 (RR2/YGCB)	CB/RR	160.2	19.0	0.9	23902
Doebler's	525BW	CB/RW	159.3	17.5	0.0	23679
FS Seeds	6240	CB	159.3	19.1	0.0	19211
Vigoro	V53Y41	CB	157.5	19.2	1.9	24349
Vigoro	V51R66	RR	151.5	20.4	1.1	22338
Garst	8445	Conv.	150.1	20.9	11.8	23679
Trisler by Augusta	T-04-41	CB	149.5	20.9	13.9	22338
T.A. Seeds	TA6821	CB	144.1	18.7	4.0	22338
	Trial Mean		174.4	20.7	3.7	24107
	LSD_{0.10}		19.5	2.4	9.0	1669
	CV%		8.3			

¹Hybrid type = CB or HX (Bt trait for corn borer); RR (Roundup Ready); RW (Bt trait for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional hybrid).

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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

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

Table 6. Performance of full season corn hybrids evaluated at Wye Research and Education Center, Queenstown, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (p/A)
Vigoro	V58Y41	CB	207.6*	23.8	0.0	25466
Clarks	CL 914	CB/RR	204.9*	24.9	3.3	25242
Doebler's	784XYG	CB	199.4*	22.4	3.6	24349
T.A. Seeds	TA780-13	CB/RR	197.0*	22.0	3.5	24796
Dekalb	DKC 66-21 (YGCB)	CB	195.8*	21.1	15.7	25466
Doebler's	648RYG	CB/RR	195.4*	20.0	1.9	23232
Southern States	842RRYGCB	CB/RR	194.1*	26.2	4.4	25242
UniSouth Genetics	FB 904	Conv.	193.0*	22.4	3.7	23902
Pioneer	P31G98⁵	Conv.	189.6*	22.3	6.8	26359
Schillinger Seed	SS 825	Conv.	185.3	21.8	1.8	24126
UniSouth Genetics	FB 909	Conv.	182.3	24.8	7.8	25466
Schillinger Seed	SS 727	Conv.	181.9	23.3	4.2	21445
Southern States	746RRBT	CB/RR	178.3	23.6	29.6	24796
Garst	8380IT	IT	178.0	20.0	10.7	25019
FS Seeds	6555	CB	177.1	23.0	3.0	23902
Vigoro	V56Y51	CB	176.7	23.6	14.4	24572
NK Brand	N82-J6⁴	Conv.	176.4	24.8	15.7	25242
UniSouth Genetics	FB 938	Conv.	176.2	24.0	0.8	26359
Doebler's	761BDT	CB	169.7	23.7	14.9	26359
T.A. Seeds	X11406	CB	156.3	24.0	2.1	22562
T.A. Seeds	TA7001	CB	155.3	22.9	18.7	23679
	Trial Mean		184.3	23.1	7.9	24647
	LSD_{0.10}		18.1	2.1	18.7	1707
	CV%		7.2			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

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

Table 7. Performance of early season corn hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Trisler by Augusta	T5244RRCB	CB/RR	191.4*	21.7	0.0	25242
Asgrow	RX 668RR2/YGCB	CB/RR	190.2*	19.2	0.9	24126
Trisler by Augusta	T03-84CB	CB	188.1*	19.9	0.0	22338
Trisler by Augusta	T5160CB	CB	185.7*	20.2	0.0	24572
Trisler by Augusta	T05-53CB	CB	185.2*	20.3	0.9	25242
Trisler by Augusta	T05-102CB	CB	184.0*	21.1	0.0	27030
Trisler by Augusta	T2744CB	CB	181.0*	18.4	0.9	24572
Trisler by Augusta	T5253Bt	CB	178.6*	23.7	0.0	24572
Dekalb	DKC 54-51 (YGCB)	CB	175.0*	17.4	1.6	25019
Dekalb	DKC 57-84 (YGCB)	CB	174.4	18.5	0.0	25019
Garst	8535YG/IT	CB/IT	172.9	18.7	0.8	23902
Trisler by Augusta	T05-101CRW	RW	166.9	20.2	4.9	22562
Dekalb	DKC 55-82 (RR2)	RR	163.5	16.8	3.5	25913
Pioneer	P34M95⁵	CB	163.2	20.1	0.0	24349
Doebler's	575XB	CB	161.3	17.9	0.8	26136
NK Brand	N58-D1⁴	CB/LL	161.3	18.0	0.0	24796
Schillinger Seed	SS 704	Conv.	155.1	18.1	7.5	21668
Trisler by Augusta	T5130	CB	153.0	19.7	8.4	24126
Doebler's	494RYG	CB/RR	152.5	15.9	0.0	20998
Schillinger Seed	SS 610	HX	151.4	16.4	3.7	23902
Trisler by Augusta	5232Bt	CB	140.6	18.9	0.0	22562
Doebler's	506XY	Conv.	137.8	17.1	6.9	22562
	Trial Mean		168.8	19.0	1.9	24146
	LSD_{0.10}		16.5	1.4	3.4	2710
	CV%		7.2			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Trisler by Augusta	T5240CB	CB	192.8*	21.1	1.0	23232
Trisler by Augusta	T5337CBRR	CB/RR	188.4*	23.8	0.0	22785
Schillinger Seed	SS 811Hx	HX	187.6*	20.4	0.0	22785
Clarks	CL 810	CB	187.6*	22.6	1.6	26136
Vigoro	V54Y61	CB	185.7*	22.0	0.0	24349
Augusta	5337	Conv.	184.2*	23.1	2.9	22562
FS Seeds	6406	CB	181.7*	23.8	1.1	23679
NK Brand	N65-C5	CB/LL	181.5*	21.4	0.0	22562
Pioneer	P33B51⁵	CB	180.9*	23.7	1.0	21892
Trisler by Augusta	T5257RRCB	CB/RR	179.5*	22.4	1.0	22338
FS Seeds	6407	CB/RW	179.2*	23.3	0.0	22338
NK Brand	N70-F1	CB/LL	179.1*	20.4	0.8	24796
Vigoro	V52YR52	CB/RR	178.6*	22.0	0.0	23232
FS Seeds	6102	CB	178.2*	22.2	0.0	22115
Southern States	670BT	CB	177.5*	24.1	0.0	22115
T.A. Seeds	TA6993	CB/RR	177.3*	21.8	0.0	25019
Dekalb	DKC 61-45⁴ (RR2/YGCB)	CB/RR	176.7*	19.7	1.0	23679
NK Brand	N72-G8	Conv.	176.2*	19.0	4.3	25913
Garst	8454YG1	CB	175.9*	23.0	3.9	22115
Trisler by Augusta	T-04-59CB	CB	174.8	24.1	0.0	24796
Doebler's	648RYG	CB/RR	173.9	22.8	0.0	21222
Southern States	605CL	IT	172.8	20.1	7.3	24796
Vigoro	V50Y51	CB	172.2	20.2	0.0	20998
NK Brand	N76-M7	CB/LL	171.0	22.5	0.0	22115
Trisler by Augusta	T5255RRCB	CB/RR	171.0	24.1	0.0	20105
Trisler by Augusta	T0469CB	CB	170.7	23.2	0.0	23902
Vigoro	V5240	Conv.	169.8	19.9	1.0	23455
Southern States	692BT	CB	168.3	21.5	0.0	22785
Doebler's	525BW	CB/RW	167.5	18.4	0.0	23528
Doebler's	575XB	CB	167.2	17.0	1.9	24349
NK Brand	N69-P9	Conv.	166.1	20.7	4.5	24796
Garst	8445	Conv.	165.4	21.8	5.2	22785
Dekalb	DKC 61-72 (RR2)	RR	164.3	19.2	6.3	24796
FS Seeds	6103	CB/RW	162.6	19.8	0.0	20998
Augusta	4487⁴	Conv.	160.3	22.3	13.4	24796
FS Seeds	6052	Conv.	159.7	20.4	2.9	23679
T.A. Seeds	TA6821	CB	159.5	20.7	0.0	24572
Dekalb	DKC 63-81 (RR2/YGCB)	CB/RR	159.3	21.7	0.0	22562
FS Seeds	6240	CB	158.7	22.1	0.0	19211
Trisler by Augusta	T-04-41	CB	158.5	21.2	1.0	22338
Schillinger Seed	SS 742	Conv.	158.3	19.5	2.8	22562
Augusta	4587	Conv.	157.6	21.4	7.7	22785
Vigoro	V53Y41	CB	156.5	20.5	0.0	24349
Trisler by Augusta	T0319CB	CB	155.4	23.0	0.0	22785
Vigoro	V51R66	RR	155.1	20.5	3.2	21668
UniSouth Genetics	FB 854	Conv.	154.7	21.9	8.4	23232
T.A. Seeds	TA5753	CB/RR	144.7	17.6	0.0	21445
Clarks	CL 711	Conv.	141.8	20.3	8.7	23232
	Trial Mean		170.1	21.4	1.9	23089
	LSD_{0.10}		17.9	1.6	3.8	2188
	CV%		7.8			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn rootworm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Superscript 4 designates a superior performing hybrid in the 2004 Maryland Corn Tests; a superscript 5 designates a hybrid that is widely grown by Maryland corn producers.

*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 corn hybrids evaluated at Lower Eastern Shore Research and Education Center-Poplar Hill Facility, Quantico, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Doebler's	784XYG	CB	203.6*	24.8	0.0	23902
Vigoro	V58Y41	CB	191.8*	25.2	0.0	21892
Clarks	CL 914	CB/RR	191.5*	25.8	0.0	22115
Dekalb	DKC 66-21 (YGCB)	CB	189.6*	23.2	1.7	25913
Southern States	842RRYGCB	CB/RR	189.4*	26.1	0.0	24349
T.A. Seeds	TA 780-13	CB/RR	189.1*	23.6	0.0	24126
Vigoro	V56Y51	CB	186.7*	22.8	0.0	23232
Doebler's	648RYG	CB/RR	185.5*	22.7	0.0	22115
FS Seeds	6555	CB	184.9*	23.2	1.8	24349
Southern States	746RRBT	CB/RR	183.3	21.7	0.0	21668
UniSouth Genetics	FB 904	Conv.	175.8	21.9	2.1	21668
NK Brand	N82-J6⁴	Conv.	174.1	24.2	0.0	24126
Schillinger Seed	SS 727	Conv.	171.8	22.4	7.6	21222
T.A. Seeds	TA7001	CB	170.4	25.6	0.0	23902
Garst	8380IT	IT	169.3	21.7	10.2	22115
Pioneer	P31G98⁵	Conv.	167.7	22.7	11.5	23902
T.A. Seeds	X11406	CB	161.5	25.0	0.0	19434
Schillinger Seed	SS 825	Conv.	159.1	21.3	1.2	23009
UniSouth Genetics	FB 909	Conv.	157.3	26.4	1.8	22785
UniSouth Genetics	FB 938	Conv.	156.2	22.4	8.3	24126
Doebler's	761BDT	CB	151.6	21.9	1.9	22785
	Trial Mean		176.7	23.6	2.3	22987
	LSD_{0.10}		18.9	2.3	4.1	2522
	CV%		7.8			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Trisler by Augusta	T5244RRCB	CB/RR	182.1*	18.4	4.3	24572
Trisler by Augusta	T03-84CB	CB	178.0*	17.4	1.8	24796
Dekalb	DKC 57-84 (YGCB)	CB	167.1*	16.6	4.3	24572
Asgrow	RX 668RR2/YGCB	CB/RR	164.6*	16.1	5.8	26221
Doebler's	575XB	CB	163.4*	14.8	6.0	27514
Trisler by Augusta	T5160CB	CB	157.8	18.5	7.3	27030
Dekalb	DKC 55-82 (RR2)	RR	156.3	14.6	15.2	26583
Dekalb	DKC 54-51 (YGCB)	CB	154.4	15.1	0.7	27476
Pioneer	P34M95⁵	CB	154.1	18.7	0.9	23455
Doebler's	494RYG	Conv.	148.6	14.8	2.9	23009
Trisler by Augusta	T05-53CB	CB	147.7	20.0	16.9	23902
Schillinger Seed	SS 610	HX	147.6	15.6	9.0	25019
Trisler by Augusta	T05-102CB	CB	146.4	19.2	0.9	24572
Schillinger Seed	SS 704	Conv.	142.8	14.7	15.5	26806
Trisler by Augusta	T05-101CRW	RW	140.4	15.9	9.3	24126
Garst	8535YG/IT	CB/IT	139.0	17.6	0.8	24349
Trisler by Augusta	T2744CB	CB	137.9	17.1	0.0	23902
NK Brand	N58-D1⁴	CB/LL	136.5	15.4	5.2	26136
Trisler by Augusta	T5253Bt	CB	135.3	21.9	0.9	23679
Trisler by Augusta	T5130	CB	133.9	15.4	8.1	27476
Doebler's	506XY	Conv.	132.3	14.3	8.1	25466
Trisler by Augusta	5232Bt	CB	117.3	16.1	6.3	25466
	Trial Mean		149.2	16.7	5.9	25279
	LSD_{0.10}		22.0	0.9	9.7	2686
	CV%		10.8			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
NK Brand	N76-M7	CB/LL	188.8*	22.6	1.5	25689
Augusta	5337	Conv.	188.4*	22.3	12.2	27030
Vigoro	V5240	Conv.	187.7*	19.3	4.5	29263
Trisler by Augusta	T5240CB	CB	184.6*	18.8	2.8	23902
Dekalb	DKC 61-72 (RR2)	RR	183.8*	17.4	16.9	26583
NK Brand	N65-C5	CB/LL	182.2*	18.5	1.7	26136
Doebler's	575XB	CB	182.0*	15.7	0.0	27253
Schillinger Seed	SS 811Hx	HX	180.7*	22.3	0.9	25019
NK Brand	N72-G8	Conv.	179.2*	17.0	13.7	27253
Pioneer	P33B51⁵	CB	178.8*	20.9	0.0	23455
Dekalb	DKC 61-45⁴ (RR2/YGCB)	CB/RR	177.6*	19.1	0.8	25019
Southern States	670BT	CB	176.9*	21.4	6.8	24126
Trisler by Augusta	T5337CBRR	CB/RR	175.7*	22.5	0.0	24126
Vigoro	V52YR52	CB/RR	175.3*	19.2	7.4	23009
T.A. Seeds	TA6993	CB/RR	174.8*	20.1	4.6	23679
Vigoro	V54Y61	CB	174.4*	18.8	3.3	26359
T.A. Seeds	TA6821	CB	173.1*	17.7	3.1	25913
FS Seeds	6406	CB	172.4*	20.3	0.0	27253
Southern States	692BT	CB	172.0*	19.3	0.0	23679
Dekalb	DKC 63-81 (RR2/YGCB)	CB/RR	171.1*	18.8	6.2	28146
NK Brand	N69-P9	Conv.	170.7*	19.8	12.1	25689
NK Brand	N70-F1	CB/LL	170.7*	20.3	0.0	22562
Doebler's	648RYG	CB/RR	170.2*	19.3	6.2	28370
FS Seeds	6102	CB	170.1*	19.5	0.9	24349
Vigoro	V50Y51	CB	168.8*	19.5	0.0	23232
Trisler by Augusta	T5255RRCB	CB/RR	168.1*	21.6	0.0	24572
FS Seeds	6103	CB/RW	167.7*	18.7	1.0	22785
Trisler by Augusta	T0319CB	CB	165.9*	21.9	0.8	27923
T.A. Seeds	TA5753	CB/RR	162.8*	16.5	1.8	22785
Vigoro	V53Y41	CB	162.4*	18.5	0.0	24126
Trisler by Augusta	T0469CB	CB	162.2*	21.3	1.0	23232
FS Seeds	6240	CB	161.4	17.9	3.3	25070
Trisler by Augusta	T5257RRCB	CB/RR	161.2	21.3	1.8	25019
Garst	8454YG1	CB	160.9	20.7	0.9	25019
Trisler by Augusta	T-04-41	CB	159.8	19.9	12.2	23455
Vigoro	V51R66	RR	159.7	17.3	14.3	25242
Clarks	CL 711	Conv.	158.1	17.9	17.8	27030
Clarks	CL 810	CB	157.1	18.6	1.7	24796
UniSouth Genetics	FB 854	Conv.	156.1	21.2	13.5	23232
Garst	8445	Conv.	154.8	18.7	3.6	26136
Augusta	4587	Conv.	154.0	20.1	15.8	25019
FS Seeds	6052	Conv.	153.0	20.3	6.0	26136
Augusta	4487⁴	Conv.	150.2	18.3	8.1	27253
Southern States	605CL	IT	149.5	18.2	14.8	24293
Doebler's	525BW	CB/RW	145.6	15.9	2.9	24126
Trisler by Augusta	T-04-59CB	CB	141.7	23.6	1.7	25019
FS Seeds	6407	CB/RW	141.1	19.6	1.3	25783
Schillinger Seed	SS 742	Conv.	140.9	16.4	9.0	25689
	Trial Mean		167.8	19.5	5.0	25217
	LSD_{0.10}		26.7	1.4	6.1	2819
	CV%		11.8			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Lower Eastern Shore Research and Education Center-Salisbury Facility, Salisbury, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (p/A)
T.A. Seeds	TA 780-13	CB/RR	160.4*	19.1	2.8	24126
Pioneer	P31G98⁵	Conv.	159.5*	18.8	15.9	25242
Clarks	CL 914	CB/RR	155.9*	21.4	3.5	25019
Doebler's	761BDT	CB	152.8*	20.1	0.8	25913
Schillinger Seed	SS 825	Conv.	150.9*	17.8	10.3	25466
Southern States	842RRYGCB	CB/RR	146.0*	21.3	44.0	25466
FS Seeds	6555	CB	143.7*	19.8	5.3	24796
UniSouth Genetics	FB 904	Conv.	141.9*	18.3	12.5	25019
Vigoro	V56Y51	CB	141.9*	20.4	4.3	25242
Vigoro	V58Y41	CB	141.0*	21.9	3.7	26583
Schillinger Seed	SS 727	Conv.	140.0*	18.5	11.7	20998
Doebler's	784XYG	CB	139.8*	20.8	2.9	23679
Dekalb	DKC 66-21 (YGCB)	CB	137.8*	21.0	7.2	25689
T.A. Seeds	TA7001	CB	137.6*	19.6	4.4	25019
Doebler's	648RYG	CB/RR	134.1*	17.2	4.3	26136
Southern States	746RRBT	CB/RR	133.8	20.2	11.5	25689
NK Brand	N82-J6⁴	Conv.	127.4	21.2	1.7	25242
T.A. Seeds	X11406	CB/RR	125.4	19.9	3.9	23232
Garst	8380IT	IT	123.0	18.2	11.2	25689
UniSouth Genetics	FB 938	Conv.	113.8	21.2	8.4	26359
UniSouth Genetics	FB 909	Conv.	108.1	24.2	18.4	25466
	Trial Mean		138.8	20.0	9.0	25051
	LSD_{0.10}		26.3	1.5	7.8	2337
	CV%		13.9			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
NK Brand	N58-D1⁴	CB/LL	156.3*	12.4	3.7	27923
Trisler by Augusta	T05-53CB	CB	152.7*	12.3	0.8	27700
Trisler by Augusta	T03-84CB	CB	140.0*	12.3	2.3	26359
Garst	8535YG/IT	CB/IT	139.4*	12.1	6.8	28817
Dekalb	DKC 54-51 (YGCB)	CB	138.7*	11.8	1.6	27700
Trisler by Augusta	T5253Bt	CB	136.8*	12.4	6.0	26583
Trisler by Augusta	T2744CB	CB	135.2	11.5	10.9	25019
Trisler by Augusta	T5160CB	CB	132.4	12.2	3.4	27030
Trisler by Augusta	T5244RRCB	CB/RR	132.1	13.4	2.0	26359
Dekalb	DKC 57-84 (YGCB)	CB	127.5	11.1	3.2	29934
Asgrow	RX 668RR2/YGCB	CB/RR	127.0	10.3	0.8	28817
Doebler's	575XB	CB	123.5	10.9	0.0	28593
Doebler's	494RYG	CB/RR	121.0	11.6	3.4	25913
Schillinger Seed	SS 704	Conv.	119.0	12.1	20.8	26136
Pioneer	34M95⁵	CB	117.4	12.7	9.7	28817
Schillinger Seed	SS 610	HX	117.1	10.1	16.4	27700
Trisler by Augusta	5232BT	CB	115.7	11.8	4.3	25689
Dekalb	DKC 55-82 (RR2)	RR	115.1	10.7	8.1	27700
Trisler by Augusta	T05-102CB	CB	113.5	13.4	4.7	24349
Trisler by Augusta	T5130	CB	107.1	10.5	10.2	26359
Trisler by Augusta	T05-101CRW	RW	104.1	11.7	9.5	25913
Doebler's	506XY	Conv.	92.9	10.9	5.9	26359
	Trial Mean		125.7	11.7	6.1	27080
	LSD_{0.10}		20.2	1.4	9.3	2794
	CV%		11.7			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Vigoro	V50Y51	CB	154.5*	11.5	0.0	25913
Trisler by Augusta	T5337CBRR	CB/RR	154.5*	9.7	9.4	25913
FS Seeds	6103	CB/RW	152.1*	9.3	2.7	25019
FS Seeds	6406	CB	150.5*	9.2	16.6	25242
Schillinger Seed	SS 811Hx	HX	149.4*	9.2	9.2	26359
Southern States	670BT	CB	148.3*	12.0	2.8	25019
Trisler by Augusta	T0319CB	CB	147.7*	11.4	9.6	25689
NK Brand	N65-C5	CB/LL	147.3*	9.0	16.2	27030
Dekalb	DKC 61-45⁴ (RR2/YGCB)	CB/RR	145.7*	10.1	1.8	26359
Vigoro	V54Y61	CB	145.3*	9.3	2.7	27476
NK Brand	N76-M7	CB/LL	145.1*	12.1	12.0	24796
Trisler by Augusta	T0469CB	CB	144.3*	10.0	11.4	26136
Vigoro	V52YR52	CB/RR	142.6*	8.0	8.9	25913
Trisler by Augusta	T5240CB	CB	142.3*	9.7	0.9	25466
Vigoro	V53Y41	CB	139.3*	10.7	6.8	24126
Dekalb	DKC 63-81 (RR2/YGCB)	CB/RR	138.8*	12.0	6.8	26359
T.A. Seeds	TA6821	CB	138.4*	11.3	1.7	25913
FS Seeds	6240	CB	138.1*	10.6	4.0	23232
NK Brand	N72-G8	Conv.	135.5*	8.9	27.2	26359
T.A. Seeds	TA6993	CB/RR	134.6*	7.5	14.8	26136
Augusta	5337	Conv.	132.9	9.0	22.8	25466
Southern States	692BT	CB	132.1	10.3	1.7	26136
Pioneer	P33B51⁵	CB	129.1	10.0	3.3	27476
Trisler by Augusta	T5255RRCB	CB/RR	128.1	9.0	6.6	26359
Doebler's	575XB	CB	127.1	7.9	2.6	26359
FS Seeds	6102	CB	126.8	9.3	0.0	24572
Vigoro	V51R66	RR	126.0	9.1	11.9	24349
FS Seeds	6407	CB/RW	125.0	9.2	10.0	27253
Trisler by Augusta	T5257RRCB	CB/RR	124.6	8.9	3.6	24796
Doebler's	648RYG	CB/RR	123.1	8.5	2.5	25913
Trisler by Augusta	T-04-59CB	CB	121.3	11.1	11.8	24572
Augusta	4587	Conv.	121.2	8.0	12.7	23902
NK Brand	N70-F1	CB/LL	121.0	8.8	3.5	25466
Clarks	CL 711	Conv.	119.2	8.7	13.2	26359
Dekalb	DKC 61-72 (RR2)	RR	119.1	7.3	19.7	26359
Clarks	CL 810	CB	118.7	8.5	6.5	24572
Garst	8454YG1	CB	117.3	10.5	1.9	24126
Doebler's	525BW	CB/RW	116.7	8.4	0.0	25689
Garst	8445	Conv.	116.0	9.3	30.6	23902
T.A. Seeds	TA5753	CB/RR	115.3	9.7	8.0	24349
Southern States	605CL	IT	115.1	7.0	6.6	25466
Schillinger Seed	SS 742	Conv.	111.7	8.7	13.1	27030
Vigoro	V5240	Conv.	110.0	9.5	9.2	25689
NK Brand	N69-P9	Conv.	108.9	10.4	18.6	25689
Augusta	4487⁴	Conv.	108.4	8.7	9.6	24572
FS Seeds	6052	Conv.	106.4	8.2	11.2	26583
UniSouth Genetics	FB 854	Conv.	98.8	9.5	41.8	25689
Trisler by Augusta	T-04-41	CB	98.1	10.0	4.5	24126
	Trial Mean		129.4	9.5	9.4	25568
	LSD_{0.10}		19.9	1.3	14.8	2272
	CV%		11.3			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Western Maryland Research and Education Center, Keedysville, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (p/A)
Clarks	CL 914	CB/RR	179.9*	17.7	1.8	24796
Vigoro	V58Y41	CB	172.9*	16.3	3.3	28593
Doebler's	784XYG	CB	171.8*	16.0	5.1	26583
Doebler's	648RYG	CB/RR	165.2*	13.5	6.3	28370
T.A. Seeds	X11406	CB/RR	160.2*	19.7	0.0	25689
Vigoro	V56Y51	CB	157.8*	19.9	5.1	27030
FS Seeds	6555	CB	157.3	18.3	9.4	25913
T.A. Seeds	TA 780-13	CB/RR	150.4	17.0	0.0	25913
UniSouth Genetics	FB 904	Conv.	149.9	13.2	14.0	28817
T.A. Seeds	TA7001	CB	149.0	18.1	6.4	25689
Garst	8380IT	IT	148.8	11.7	12.7	28817
Southern States	746RRBT	CB/RR	148.1	19.1	10.1	27923
NK Brand	N82-J6⁴	Conv.	147.9	20.3	0.8	25689
Dekalb	DKC 66-21 (YGCB)	CB	146.9	15.5	12.1	27476
UniSouth Genetics	FB 938	Conv.	141.5	18.1	8.7	31050
Schillinger Seed	SS 727	Conv.	139.1	15.3	5.7	23679
Doebler's	761BDT	CB	138.5	15.9	11.1	24126
Southern States	842RRYGCB	CB/RR	127.3	23.3	7.4	27253
Pioneer	P31G98⁵	Conv.	118.9	13.7	17.4	29487
Schillinger Seed	SS 825	Conv.	111.5	13.1	9.2	24126
UniSouth Genetics	FB 909	Conv.	109.2	18.5	17.5	27253
	Trial Mean		147.2	16.9	7.8	26870
	LSD_{0.10}		22.2	1.9	9.8	2554
	CV%		10.9			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (p/A)
Trisler by Augusta	T05-53CB	CB	217.3*	19.3	n/a	25689
Trisler by Augusta	T5253Bt	CB	212.2*	20.4	n/a	25242
Asgrow	RX 668RR2/YGCB	CB/RR	211.6*	16.8	n/a	30157
NK Brand	N58-D1⁴	CB/LL	210.8*	15.6	n/a	26069
Trisler by Augusta	T05-102CB	CB	207.1*	19.4	n/a	26471
Dekalb	DKC 57-84 (YGCB)	CB	205.4*	16.1	n/a	27074
Trisler by Augusta	T03-84CB	CB	202.4*	20.1	n/a	22383
Trisler by Augusta	T5160CB	CB	199.6*	17.6	n/a	26694
Trisler by Augusta	T5244RRCB	CB/RR	194.9*	19.8	n/a	25913
Trisler by Augusta	T2744CB	CB	194.3*	18.2	n/a	26583
Trisler by Augusta	T05-101CRW	RW	194.3*	17.4	n/a	25354
Garst	8535YG/IT	CB/IT	191.5*	17.8	n/a	26024
Schillinger Seed	SS 610	HX	188.7	16.0	n/a	26024
Pioneer	P34M95⁵	CB	188.2	17.8	n/a	25242
Dekalb	DKC 54-51 (YGCB)	CB	184.8	15.9	n/a	26359
Schillinger Seed	SS 704	Conv.	182.0	16.3	n/a	25689
Doebler's	575XB	CB	177.3	15.8	n/a	25466
Trisler by Augusta	5232BT	CB	176.2	18.6	n/a	23902
Trisler by Augusta	T5130	CB	170.9	17.3	n/a	23455
Dekalb	DKC 55-82 (RR2)	RR	168.7	13.3	n/a	27030
Doebler's	494RYG	CB/RR	167.4	14.0	n/a	23679
Doebler's	506XY	Conv.	147.9	14.7	n/a	23344
	Trial Mean		190.6	17.2	n/a	25629
	LSD_{0.10}		26.3	1.2		1885
	CV%		10.1			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Augusta	5337	Conv.	238.8*	23.3	8.3	27030
Dekalb	DKC 61-72 (RR2)	RR	223.0*	19.8	4.0	27700
Trisler by Augusta	T5337CBRR	CB/RR	219.0*	21.4	10.2	24349
FS Seeds	6052	Conv.	214.0*	18.7	3.4	25689
Vigoro	V54Y61	CB	214.0*	22.7	3.3	26806
Schillinger Seed	SS 811Hx	HX	213.1	20.2	6.3	25242
Trisler by Augusta	T5240CB	CB	210.2	22.6	4.3	27030
NK Brand	N65-C5	CB/LL	209.0	19.3	21.2	26583
Trisler by Augusta	T5255RRCB	CB/RR	208.9	22.8	22.0	24349
Clarks	CL 810	CB	208.7	19.1	12.3	25466
NK Brand	N76-M7	CB/LL	206.5	23.7	4.0	26359
FS Seeds	6102	CB	205.4	21.6	15.8	25242
Trisler by Augusta	T0319CB	CB	205.3	22.8	1.7	25689
FS Seeds	6103	CB/RW	205.0	20.9	1.9	23679
T.A. Seeds	TA5753	CB/RR	201.9	16.6	7.0	25019
Trisler by Augusta	T0469CB	CB	201.5	20.6	16.3	25466
Dekalb	DKC 63-81 (RR2/YGCB)	CB/RR	201.0	21.2	11.8	26583
FS Seeds	6406	CB	198.8	22.2	28.5	25242
NK Brand	N70-F1	CB/LL	198.2	21.7	0.0	25242
Dekalb	DKC 61-45⁴ (RR2/YGCB)	CB/RR	198.0	18.8	21.0	25689
Garst	8454YG1	CB	196.1	20.4	3.7	24572
Schillinger Seed	SS 742	Conv.	196.0	20.0	5.9	26583
Clarks	CL 711	Conv.	194.4	18.9	2.9	25242
T.A. Seeds	TA6821	CB	194.2	19.5	0.0	23455
Vigoro	V5240	Conv.	193.9	19.9	9.9	26583
T.A. Seeds	TA6993	CB/RR	192.7	20.3	19.5	25913
Vigoro	V50Y51	CB	191.8	19.2	14.9	23455
Augusta	4487⁴	Conv.	191.3	20.7	22.9	27923
Pioneer	P33B51⁵	CB	188.4	21.0	13.7	27030
Doebler's	648RYG	CB/RR	187.8	21.3	23.9	24572
Vigoro	V53Y41	CB	187.0	18.8	2.8	24349
Southern States	605CL	IT	186.9	19.8	29.0	26806
Vigoro	V51R66	RR	185.8	20.3	5.0	24572
Southern States	692BT	CB	185.6	20.3	0.0	22115
Trisler by Augusta	T-04-41	CB	185.3	20.6	9.5	23232
NK Brand	N72-G8	Conv.	179.3	20.6	7.2	24796
NK Brand	N69-P9	Conv.	178.9	19.4	9.7	24349
Vigoro	V52YR52	CB/RR	178.9	20.8	53.1	25242
FS Seeds	6240	CB	177.8	20.2	5.4	23679
Augusta	4587	Conv.	177.7	21.3	14.6	26136
Trisler by Augusta	T-04-59CB	CB	176.1	20.3	2.9	23455
Southern States	670BT	CB	174.9	20.1	14.6	26359
UniSouth Genetics	FB 854	Conv.	174.3	19.9	9.8	25466
Doebler's	575XB	CB	172.5	16.3	7.2	25913
Garst	8445	Conv.	172.4	20.5	13.4	25242
Doebler's	525BW	CB/RW	169.5	17.4	1.8	25913
FS Seeds	6407	CB/RW	166.8	20.4	56.3	25242
Trisler by Augusta	T5257RRCB	CB/RR	163.5	21.2	37.5	26806
	Trial Mean		193.8	20.4	12.5	25405
	LSD_{0.10}		25.6	1.6	16.4	2568
	CV%		9.8			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

*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 corn hybrids evaluated at Central Maryland Research and Education Center-Clarksville Facility, Clarksville, MD during 2005.

Brand/Company Name	Hybrid Name	Hybrid Type ¹	Yield (bu/A) ²	Moisture %	Lodging ³ %	Population (pl/A)
Dekalb	DKC 66-21 (YGCB)	CB	226.8*	21.3	n/a	26918
Clarks	CL 914	CB/RR	223.9*	22.6	n/a	25466
Garst	8380IT	IT	222.0*	17.6	n/a	25689
Doebler's	784XYG	CB	219.9*	22.1	n/a	25131
Vigoro	V58Y41	CB	212.9*	22.3	n/a	24014
T.A. Seeds	TA 780-13	CB/RR	209.6*	21.1	n/a	26359
Doebler's	761BDT	CB	207.8*	20.7	n/a	27476
UniSouth Genetics	FB 904	Conv.	205.1	20.8	n/a	24461
Southern States	746RRBT	CB/RR	203.9	23.0	n/a	25801
Southern States	842RRYGCB	CB/RR	203.2	21.9	n/a	27141
FS Seeds	6555	CB	202.3	23.1	n/a	26248
Pioneer	P31G98⁵	Conv.	202.3	20.8	n/a	27476
NK Brand	N82-J6⁴	Conv.	201.2	21.3	n/a	24907
T.A. Seeds	TA7001	CB	200.9	22.8	n/a	25913
Vigoro	V56Y51	CB	195.3	20.0	n/a	25354
T.A. Seeds	X11406	CB	191.4	22.5	n/a	24572
Schillinger Seed	SS 825	Conv.	191.1	20.9	n/a	24461
Doebler's	648RYG	CB/RR	188.7	20.8	n/a	25242
Schillinger Seed	SS 727	Conv.	187.8	18.0	n/a	23567
UniSouth Genetics	FB 909	Conv.	183.4	22.4	n/a	25019
UniSouth Genetics	FB 938	Conv.	168.5	22.7	n/a	26694
	Trial Mean		201.9	21.4	n/a	25615
	LSD_{0.10}		20.5	2.1	n/a	1525
	CV%		7.4			

¹Hybrid type = CB or HX (Bt for corn borer); RR (Roundup Ready); RW (Bt for corn root worm); LL Liberty Link hybrid); IT (Clearfield hybrid); Conv. (conventional 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.

^{4,5}Check hybrids are included through funding provided by the Maryland Grain Producers' Utilization Board. Hybrids with superscript 4 were selected for their superior performance in the 2004 Maryland Corn Hybrid Performance Tests; hybrids with superscript 5 were selected based upon their 2004 popularity among Maryland corn producers.

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

Table 19. Relative yield¹ for 22 early season maturity corn hybrids evaluated in Maryland during 2005. Consistent relative yield ratings of 100 or greater across locations indicate that the hybrid is well adapted to Maryland environments.

Brand/Company Name	Hybrid Name	Wye	Poplar Hill	Salisbury	Keedysville	Clarksville	State Avg. Relative Yield	State Avg Bu/a
Trisler by Augusta	T03-84CB	109.0*	111.4*	119.3*	111.4*	106.2*	111.6	179.8
Trisler by Augusta	T5244RRCB	112.5*	113.4*	122.1*	105.1	102.3*	111.2	179.4
Trisler by Augusta	T05-53CB	105.0*	109.7*	99.0	121.5*	114.0*	109.9	177.3
Asgrow	RX 668 RR2/YGCB	110.0*	112.7*	110.3*	101.0	111.0*	109.1	177.2
Trisler by Augusta	T5253Bt	112.9*	105.8*	90.7	108.8*	111.3*	106.0	172.1
Dekalb	DKC 57-84 (YGCB)	106.0*	103.3	112.0*	101.4	107.8*	106.2	172.0
Trisler by Augusta	T5160CB	105.1*	110.0*	105.8	105.3	104.7*	106.3	171.9
NK Brand	N58-D1²	105.3*	95.6	91.5	124.3*	110.6*	105.5	169.8
Trisler by Augusta	T05-102CB	98.3	109.0*	98.1	90.3	108.7*	101.0	164.6
Dekalb	DKC 54-51 (YGCB)	97.1	103.7*	103.5	110.3*	97.0	102.4	164.5
Trisler by Augusta	T2744CB	96.0	107.2*	92.4	107.6	101.9*	101.1	163.3
Garst	8535YG/IT	98.7	102.4	93.2	110.9*	100.5*	101.2	163.1
Doebler's	575XB	97.8	95.6	109.5*	98.2	93.0	98.9	159.3
Pioneer	P34M95³	94.4	96.7	103.3	93.4	98.7	97.4	157.6
Dekalb	DKC 55-82 (RR2)	101.4	96.9	104.8	91.6	88.5	96.7	156.2
Trisler by Augusta	T05-101CRW	99.6	98.9	94.1	82.8	101.9*	95.6	156.0
Doebler's	494RYG	104.1*	90.3	99.6	96.3	87.8	95.7	154.3
Schillinger Seed	SS 610	93.8	89.7	98.9	93.2	99.0	95.0	153.8
Schillinger Seed	SS 704	85.9	91.9	95.7	94.7	95.5	92.8	149.8
Trisler by Augusta	T5130	88.8	90.6	89.7	85.2	89.7	88.9	144.0
Trisler by Augusta	5232BT	96.5	83.3	78.6	92.0	92.4	88.7	143.7
Doebler's	506XY	81.9	81.6	88.7	73.9	77.6	80.8	130.8
Location mean (bu/a)		174.9	168.8	149.2	125.7	190.6		161.8

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

^{2,3}Check hybrids are included in the test through funding provided by the Maryland Grain Producers' Utilization Board. A hybrid with superscript 2 was selected based upon its superior performance in the 2004 Maryland State Corn Hybrid Tests. A hybrid with superscript 3 was selected based upon its popularity among Maryland corn producers.

*Indicates that the relative yield of an entry was not significantly different (LSD_{0.10}) from the highest yielding entry at that location.

Table 20. Relative yield¹ for 48 mid-season maturity corn hybrids evaluated in Maryland during 2005. Consistent relative yield ratings of 100 or greater across locations indicate that the hybrid is well adapted to Maryland environments.

Brand/Company Name	Hybrid Name	Wye	Poplar Hill	Salisbury	Keedysville	Clarksville	State Avg. Relative Yield	State Avg Bu/ac
Augusta	5337	108.1*	108.3*	112.3*	102.7	123.2*	111.7	186.6
Trisler by Augusta	T5337CBRR	110.7*	110.8*	104.7*	119.4*	113.0*	111.7	186.1
NK Brand	N65-C5	115.0*	106.7*	108.6*	113.8*	107.8	110.4	184.1
Schillinger Seed	SS 811Hx	102.4	110.3*	107.7*	115.5*	110.0	109.2	181.9
Trisler by Augusta	T5240CB	102.3	113.3*	110.0*	110.0*	108.5	108.8	181.7
NK Brand	N76-M7	108.5*	100.5	112.5*	112.1*	106.6	108.1	180.1
FS Seeds	6406	105.4*	106.8*	102.7*	116.3*	102.6	106.8	177.4
Vigoro	V54Y61	93.6	109.2*	103.9*	112.3*	110.4*	105.9	176.5
FS Seeds	6102	115.3*	104.8*	101.4*	98.0	106.0	105.5	176.3
FS Seeds	6103	109.7*	95.6	99.9*	117.5*	105.8	105.1	175.7
Vigoro	V52YR52	114.6*	105.0*	104.5*	110.2*	92.3	104.7	175.0
Southern States	670BT	110.2*	104.4*	105.4*	114.6*	90.2	104.1	174.0
T.A. Seeds	TA6993	109.1*	104.2*	104.2*	104.0*	99.4	104.0	173.9
Dekalb	DKC61-45² (RR2/YGCB)	98.3	103.9*	105.8*	112.6*	102.2	104.0	173.9
Vigoro	V50Y51	104.0	101.2	100.6*	119.4*	99.0	103.9	173.7
Dekalb	DKC 61-72 (RR2)	99.7	96.6	109.5*	92.0	115.1*	103.4	172.8
Trisler by Augusta	T0469CB	101.3	100.4	96.7*	111.5*	104.0	102.8	171.1
NK Brand	N70-F1	106.1*	105.3*	101.7*	93.5	102.3	102.2	170.8
Trisler by Augusta	T0319CB	102.6	91.4	98.9*	114.1*	105.9	102.1	170.6
Trisler by Augusta	T5255RRCB	100.1	100.5	100.2*	99.0	107.8	101.8	170.1
Clarks	CL 810	101.9	110.3*	93.6	91.7	107.7	101.7	170.0
NK Brand	N72-G8	101.6	103.6*	106.8*	104.7*	92.5	101.4	169.5
Doebler's	648RYG	108.2*	102.2	101.4*	95.1	96.9	100.9	168.7
Pioneer	P33B51³	92.9	106.3*	106.6*	99.8	97.2	100.4	167.8
Dekalb	DKC 63-81 (RR2/YGCB)	91.9	93.7	102.0*	107.3*	103.7	99.7	166.1
Vigoro	V5240	95.1	99.8	111.9*	85.0	100.1	98.4	165.4
Southern States	692BT	92.2	98.9	102.5*	102.1	95.8	98.3	163.8
Doebler's	575XB	96.2	98.3	108.5*	98.2	89.0	97.8	163.3
Garst	8454YG1	95.2	103.4*	95.9	90.6	101.2	97.8	163.3
FS Seeds	6052	102.2	93.9	91.2	82.2	110.4*	97.1	162.3
Southern States	605CL	106.6*	101.6	89.1	88.9	96.4	96.9	162.0
FS Seeds	6407	113.5*	105.3*	84.1	96.6	86.1	96.9	162.0
T.A. Seeds	TA6821	82.6	93.8	103.2*	107.0*	100.2	96.9	161.9
Vigoro	V53Y41	90.3	92.0	96.8*	107.7*	96.5	96.6	160.5
Trisler by Augusta	T5257RRCB	97.8	105.5*	96.1	96.3	84.4	96.0	159.9
Trisler by Augusta	T-04-59CB	104.5*	102.8	84.4	93.7	90.9	95.3	159.2
FS Seeds	6240	91.3	93.3	96.2	106.7*	91.7	95.2	159.1
NK Brand	N69-P9	95.5	97.6	101.7*	84.2	92.3	94.3	158.2
T.A. Seeds	TA5753	94.0	85.1	97.0*	89.1	104.2	94.4	157.7
Augusta	4587	99.0	92.7	91.8	93.7	91.7	93.7	156.6
Vigoro	V51R66	86.9	91.2	95.2	97.4	95.9	93.1	155.6
Clarks	CL 711	93.5	83.4	94.2	92.1	100.3	92.9	155.3
Augusta	4487²	95.2	94.2	89.5	83.8	98.7	92.9	155.3
Schillinger Seed	SS 742	92.1	93.1	84.0	86.3	101.1	91.9	153.5
Garst	8445	86.1	97.2	92.3	89.6	89.0	90.8	151.7
Doebler's	525BW	91.3	98.5	86.8	90.2	87.5	90.8	151.7
UniSouth Genetics	FB 854	98.7	90.9	93.0	76.4	89.9	90.5	151.2
Trisler by Augusta	T-04-41	85.7	93.2	95.2	75.8	95.6	89.9	150.2
Location mean (bu/a)		174.4	170.1	167.8	129.4	193.8		167.1

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

^{2,3}Check hybrids are included in the test through funding provided by the Maryland Grain Producers' Utilization Board. A hybrid with superscript 2 was selected based upon its superior performance in the 2004 Maryland State Corn Hybrid Tests. A hybrid with superscript 3 was selected based upon its popularity among Maryland corn producers.

*Indicates that the relative yield of an entry was not significantly different (LSD_{0.10}) from the highest yielding entry at that location.

Table 21. Relative yield¹ for 21 full season corn hybrids evaluated in Maryland during 2005. Consistent relative yield ratings of 100 or greater across locations indicate that the hybrid is well adapted to Maryland environments.

Brand/Company Name	Hybrid Name	Wye	Poplar Hill	Salisbury	Keedysville	Clarksville	State Avg. Relative Yield	State Avg. Bu/acre
Clarks	CL 914	111.2*	108.4*	112.3*	122.2*	110.9*	112.6	191.2
Doebler's	784XYG	108.2*	115.2*	100.7*	116.7*	108.9*	110.1	186.9
Vigoro	V58Y41	112.6*	108.5*	101.6*	117.5*	105.4*	109.1	185.2
T.A. Seeds	TA780-13	106.9*	107.0*	115.6*	102.2	103.8*	106.8	181.3
Dekalb	DKC 66-21	106.2*	107.3*	99.3*	99.8	112.3*	105.6	179.4
Doebler's	648RYG	106.0*	105.0*	96.6*	112.2*	93.5	102.3	173.8
UniSouth Genetics	FB 904	104.7*	99.5	102.2*	101.8	101.6	102.0	173.1
FS Seeds	6555	96.1	104.6*	103.5*	106.9	100.2	101.9	173.1
Southern States	842RRYGCB	105.3*	107.2*	105.2*	86.5	100.6	101.3	172.0
Vigoro	V56Y51	95.9	105.7*	102.2*	107.2*	96.7	101.1	171.7
Southern States	746RRBT	96.7	103.7	96.4	100.6	101.0	99.8	169.5
Garst	8380IT	96.6	95.8	88.6	101.1	110.0*	99.1	168.2
Pioneer	P31G98³	102.9*	94.9	114.9*	80.8	100.2	98.7	167.6
NK Brand	N82-J6²	95.7	98.5	91.8	100.5	99.7	97.4	165.4
Schillinger Seed	SS 727	98.7	97.2	100.9*	94.5	93.0	96.7	164.1
Doebler's	761BDT	92.1	85.8	110.1*	94.1	102.9*	96.6	164.1
T.A. Seeds	TA7001	84.3	96.4	99.1*	101.2	99.5	95.8	162.6
Schillinger Seed	SS 825	100.5	90.0	108.7*	75.7	94.7	94.0	159.6
T.A. Seeds	X11406	84.8	91.4	90.3	108.8*	94.8	93.6	159.0
UniSouth Genetics	FB 938	95.6	88.4	82.0	96.1	83.5	89.1	151.2
UniSouth Genetics	FB 909	98.9	89.0	77.9	74.2	90.8	87.2	148.1
Location Mean		184.3	176.7	138.8	147.2	201.9		169.8

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

^{2,3}Check hybrids are included in the test through funding provided by the Maryland Grain Producers' Utilization Board. A hybrid with superscript 2 was selected based upon its superior performance in the 2004 Maryland State Corn Hybrid Tests. A hybrid with superscript 3 was selected based upon its popularity among Maryland corn producers.

*Indicates that the relative yield of an entry was not significantly different (LSD_{0.10}) from the highest yielding entry at that location.

Table 22. Relative yield¹ for 30 corn hybrids evaluated in Maryland during 2004 and 2005. 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
		2004	2005	2004	2005	2004	2005	2004	2005	2004	2005	
Augusta	4487	113*	95	114*	94	95	90	113*	84	111*	99	4
Augusta	4587	109*	99	104	93	108*	92	111*	94	97	92	3
Augusta	5337	112	108*	112*	108*	116*	112*	107*	103	99	123*	7
Dekalb	DKC 54-51 (YGCB)	92	97	98	104*	103	104	105	110*	93	97	2
Dekalb	DKC 57-84 (YGCB)	100	106*	102	103	97	112*	97	101	102	108*	3
Dekalb	DKC61-45 (RR2/YGCB)	125*	98	113*	104*	118*	106*	105*	113*	104*	102	8
Dekalb	DKC 63-81 (RR2/YGCB)	96	92	104	94	112*	102*	91	107*	98	104	3
Doebler's	648RYG (mid-season)	108	108*	108*	102	108*	101*	112*	95	110*	97	6
Doebler's	648RYG (full season)	108	106*	108*	105*	108*	97*	112*	112*	110*	94	8
Doebler's	784XYG	106	108*	109*	115*	100*	101*	111*	117*	90	109*	8
FS Seeds	6102	107*	115*	106	105*	116*	101*	107*	98	98	106	6
FS Seeds	6240	93	91	95	93	114*	96	98	107*	96	92	2
FS Seeds	6406	101	105*	99	107*	104*	103*	110*	116*	97	103	6
NK Brand	N58-D1	106*	105*	106	96	115*	92	112*	124*	89	111*	6
NK Brand	N70-F1	98	106*	106	105*	90	102*	111*	94	102	102	4
NK Brand	N82-J6	96	96	102	99	103*	92	104*	101	102*	100	3
Pioneer	P33B51	98	93	98	106*	90	107*	98	100	NT	97	2
Southern States	670BT	108*	110*	103	104*	87	105*	106	115*	98	90	5
Southern States	692BT	94	92	89	99	86	103*	89	102	99	96	1
Trisler by Augusta	T03-19CB	103	103	96	91	90	99*	112*	114*	108*	106	4
Trisler by Augusta	T03-84CB	99	109*	105	111*	98	119*	93	111*	105*	106*	6
Trisler by Augusta	T2744CB	101	96	90	107*	96	92	85	108	106*	102*	3
Trisler by Augusta	T5160CB	105*	105*	99	110*	111*	106	93	105	95	105*	5
Trisler by Augusta	T5244RRCB	107*	112*	105	113*	106*	122*	106	105	100	102*	6
Trisler by Augusta	T5253Bt	99	113*	100	106*	109*	91	104	109*	102	111*	5
Trisler by Augusta	T5255RRCB	108*	100	101	101	105*	100*	116*	99	106*	108	5
Trisler by Augusta	T5337CBRR	99	111*	110*	111*	110*	105*	97	119*	113*	113*	8
Vigoro	V5240	98	95	96	100	102	112*	106*	85	93	100	2
Vigoro	V56Y51	99	96	98	106*	104*	102*	101*	107*	92	97	5
Vigoro	V58Y41	115	113*	108*	109*	117*	102*	101*	118*	111*	105*	9

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

²This column indicates the number of locations (10 total) over the two years that a hybrid had yield that was not significantly different ($p \leq 0.10$) than the highest yielding hybrid for the location.

*Indicates that the relative yield of an entry was not significantly different ($LSD_{0.10}$) from the highest yielding entry at that location.