

## 2020 Maryland Corn Hybrid Performance Tests

<http://www.psla.umd.edu/extension/md-crops>

Agronomy Facts No. 54 is prepared by Dr. Nicole Fiorellino and Mr. Louis Thorne

### Test Procedures

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

Hybrids tested in 2020 were entered by participating seed companies, listed in Table 2, that were solicited for submission of hybrids. These hybrids represented those currently available for purchase to experimental lines still under evaluation. Select Dekalb, Mid-Atlantic Seed, and Pioneer hybrids were identified for use as checks in the test. The inclusion of the performance data for check hybrids that are proven performers in the Mid-Atlantic region allows comparisons of newer hybrids to proven hybrids.

During 2020, 64 hybrids were tested using three maturity groups: early season (13 hybrids, Table 5), mid-season (20 hybrids, Table 6), and full season (31 hybrids, Table 7). Each company designated maturity group assignments for hybrids they submitted. Check hybrids were included in each of the five tests. All hybrid genetic traits and seed treatments are listed in Tables 5-7.

Each hybrid was replicated three times per location. Planting was done with a modified, four-row John Deere 1750 planter equipped with coulters and trash wheels for no-till planting. The modified planter units were manufactured by Clewell Precision Machine, Inc. Milton, PA. Each plot was four rows spaced 30 inches apart. Target population was 30,000 seeds per acre at dryland locations and 34,500 seeds per acre at the irrigated location (Salisbury Facility). Plot harvest length was approximately 32 feet. Harvest stand and number of lodged plants were counted within two weeks of harvest. The center two rows of each plot were harvested with an Almaco R1 research combine (Almaco Co., Nevada, IA). Grain yield, harvest moisture, and test weight were measured for each plot. These data were collected with a Seed Spector LRX system (Almaco Co., Nevada, IA) and recorded on Microsoft xTablet T1600.

### Test Results

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

This year's weather proved to be a challenge, fitting for the world's events in 2020. Some areas of the state were dealing with near-drought conditions while excessive precipitation plagued other areas of the state to the point that harvest (and subsequent planting of small grains and cover crops) was delayed (Table 3). Yields were generally lower this year; averaged over the five locations, yield for early (15), mid-season (20), and full-season (31) varieties was 157 bu/ac, 167 bu/ac, and 166 bu/ac respectively. These yields were -20%, -16%, and -20%, respectively, to those observed for early, mid-, and full-season hybrids in 2019.

A least significant difference (LSD) value is reported for each test where statistical significant differences ( $P \leq 0.1$ ) for a variable were observed among hybrids. The mean separation value has been calculated at the 10% probability level ( $LSD_{0.1}$ ). The LSD can be used to compare two hybrids within the

same test. For example, when the yield difference between two hybrids is greater than the LSD value, there is a 90% certainty that the difference in yield is real rather than due to random variability. The coefficient of variation (CV) is a measure of the variability that existed at a test site. It is used as an indicator of the degree of precision for a test. In general, CV values below 10% for yield indicate that the precision for distinguishing yield differences was very good. Generally, CV values were mostly low this year, with at least one maturity group at each location lacking power to determine differences in yield among the hybrids.

#### Relative Yield

The selection of a hybrid or hybrids based solely on performance at one location is not recommended. It is better to select hybrids based upon performance over a number of locations and years, if possible. In order to compare the performance of each hybrid across the five locations, relative yield tables (Tables 26-28) are included. Relative yield is the ratio of the yield of a hybrid at a location to the mean yield of all the hybrids at that location expressed in percentage. A hybrid that has a relative yield consistently greater than 100 across all testing locations is considered to have excellent stability. In 2020, 8 hybrids met this standard: Seed Consultants SCS 1071AM (early), Dekalb DKC59-82RIB, DKC61-41RIB, Hubner H4321RC2P, and Local Seed LCX10-20 VT2P (mid), and Dekalb DKC70-27RIB, Hubner H4744RC2P, and Local Seed LC1488 VT2PRIB (full). Thirteen hybrids (3 early season, 1 mid-season, 9 full season) had relative yield greater than 100 at four locations, a mark of good stability.

#### Acknowledgments

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#### Additional Information

The inclusion of hybrids in these tests is not an endorsement by the University of Maryland. Advertising statements about a company's hybrids can be made as long as they are accurate statements about the data as published. Statements similar to "See the Maryland Corn Hybrid Tests Agronomy Facts No. 54" or "Endorsement or recommendation by the University of Maryland is not implied" must accompany any reproduced information.

<u>Index to Tables</u>		<u>Page</u>
Table 1.	Production management information	4
Table 2.	Participating companies	5
Table 3.	Precipitation received at each location	5
Table 4.	Glossary of genetic trait abbreviations	6
Table 5.	Maturity, genetics, and seed treatments for early season hybrids	7
Table 6.	Maturity, genetics, and seed treatments for mid-season hybrids	8
Table 7.	Maturity, genetics, and seed treatments for full season hybrids	9
Table 8.	Average performance for early season hybrids at five locations	10
Table 9.	Average performance for mid-season hybrids at five locations	11
Table 10.	Average performance for full season hybrids at five locations	12
Table 11.	Early season hybrids at Wye Research and Education Center	13
Table 12.	Mid-season hybrids at Wye Research and Education Center	14
Table 13.	Full season hybrids at Wye Research and Education Center	15
Table 14.	Early season hybrids at LESREC-Poplar Hill	16
Table 15.	Mid-season hybrids at LESREC-Poplar Hill	17
Table 16.	Full season hybrids at LESREC-Poplar Hill	18
Table 17.	Early season hybrids at LESREC-Salisbury	19
Table 18.	Mid-season hybrids at LESREC-Salisbury	20
Table 19.	Full season hybrids at LESREC-Salisbury	21
Table 20.	Early season hybrids at Western Maryland Research and Education Center	22
Table 21.	Mid-season hybrids at Western Maryland Research and Education Center	23
Table 22.	Full season hybrids at Western Maryland Research and Education Center	24
Table 23.	Early season hybrids at CMREC-Clarksville	25
Table 24.	Mid-season hybrids at CMREC-Clarksville	26
Table 25.	Full season hybrids at CMREC-Clarksville	27
Table 26.	Relative yield summary for early season hybrids	28
Table 27.	Relative yield summary for mid-season hybrids	29
Table 28.	Relative yield summary for full season hybrids	30

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Table 1. Production management practices used and other information for the locations of the 2020 Maryland Corn Hybrid Test

Location	Soil Type and Previous Crop	Fertilizer	Herbicides & Insecticides	Tillage	Plant and Harvest Dates	Farm Staff
Wye R&E Center Queenstown, MD	Nassawango silt loam  Soybean then rye cover crop	<u>29 April:</u> 165 lb/a as 19-13-0 <u>13 May:</u> 148 lb N/a as 30% UAN <u>10 June:</u> 160 lb/a as 8-20-5 <u>Total</u> 193-54-8	<u>9 Apr – Pre-Plant:</u> Helosate @ 1 qt/a <u>14 May – Pre-Emerge:</u> Atrazine 4L @ 1 qt/a Corvus @ 5.6 oz/a	Turbo Till and ripper with aid of trash wheels on planter	<u>Plant</u> 29 April  <u>Harvest</u> 22 September	John Draper  Joseph Streett  Thomas Eason
Lower Eastern Shore R&E Center Poplar Hill Facility Quantico, MD	Nassawango silt loam  Soybean then wheat cover crop	<u>17 April:</u> 446 lb/ac as 9-0-36-9S <u>3 June:</u> 85 lb/a as 19-19-0-1Zn-0.7B 126 lb N/a as 30% UAN <u>4 June:</u> 50 lb N/a as 30% UAN <u>Total</u> 233-16-160-0.3Zn-0.1B	<u>14 April Pre-Plant</u> Gramoxone @ 1 qt/a 2-4D Ester @ 1 pt/a 80 20 Scanner @ 6 fl oz/a <u>5 May Pre-Emerge</u> Harness Xtra @ 2.5 qt/a <u>1 June Post-Emerge</u> RoundUp @ 1 qt/a Aatrex 90 @ 0.5 lb/a	No tillage with use of trash wheels on planter	<u>Plant</u> 5 May  <u>Harvest</u> 28 Sept (early, mid) 2 October (full)	David Armentrout  Vivian Calder  Jordan Miller  Fred Senkbeil
Lower Eastern Shore R&E Center Salisbury Facility Salisbury, MD	Fort Mott loamy sand  Soybean then wheat cover crop	<u>17 April:</u> 446 lb/a as 9-0-36-9S <u>5 May:</u> 165 lb/a as 19-13-0 <u>2 June:</u> 80 lb N as 30% UAN <u>8 June:</u> 80 lb N as 30% UAN <u>Total</u> 269-60-160-42S-0.3Zn-0.1B	<u>14 April Pre-Plant:</u> Gramoxone @ 1qt/a 2,4D Ester @ 1pt/a 80-20 Scanner @ 6 fl oz/a <u>5 May Pre-Emerge:</u> Harness Xtra @ 2.5 qt/a RoundUp @ 1 pt/a <u>29 May Post-Emerge:</u> RoundUp @ 1 qt/a Aatrex90 @ 0.5 lb/a	No tillage with use of trash wheels on planter	<u>Plant</u> 5 May  <u>Harvest</u> 2 October 3 October	David Armentrout  Vivian Calder  David Long  James Lynch  Jordan Miller  Fred Senkbeil
Central Maryland R&E Center Clarksville Facility Clarksville, MD	Glenville silt loam  Soybean then rye	<u>3 April:</u> 132 lb N as 30% UAN <u>7 May:</u> 250 lb/a as 4-12-36 <u>12 May:</u> 165 lb/a as 19-13-0 <u>Total</u> 173-51-90	<u>Mid-April Pre Plan:</u> Roundup Pwr Max @ 24 oz/a Sharpen @ 2 oz/a <u>12 May Pre Emerge</u> Lexar EZ @ 3 qt/a Gramoxone SL 2 pt/a	No tillage with use of trash wheels on planter	<u>Plant</u> 12 May  <u>Harvest</u> 28 October	Michael Dwyer  David Justice  Michael Gray
Western Maryland R&E Center Keedysville, MD	Swanpond – Funkstown silt loam  Wheat then double crop soybeans	<u>15 Apr</u> 304 lbs/ac as 16-7-26-5S-0.16B <u>14 May</u> 165 lb/a as 19-13-0 130 lb N/a of 30% UAN <u>Total</u> 211-43-79-3S-0.5B	<u>14 May Pre-Emerge</u> Acuron @ 2.5 qt/a Atrazine @ 1 qt/a Gramoxone @ 1 qt/a 2,4 D @ 0.5 qt/a Surfactant 1 qt/100 gal	No tillage with use of trash wheels on planter	<u>Plant</u> 14 May  <u>Harvest</u> 4 November	Ryan McDonald  Douglas Price  David Wyand

Table 2. Brands and companies in the 2020 Maryland corn hybrid trials

Brand	Address
Dekalb	800 N. Lindbergh Blvd., St. Louis, MO 63167 www.dekalbasgrowdeltapine.com
Dyna-Gro	Nutrien Ag Solution, 396 Washington St., Boydton, VA 23917 www.dynagroseed.com
Hubner	Hubner Seed Company, 306 North Main St., Monticello, IN 47960 www.hubnerseed.com
Local Seed Company	802 Rozelle St., Memphis, TN 38104 www.localseed.com
Mid-Atlantic Seeds	Mid-Atlantic Seeds, 316 N Albemarle St., York, PA 17402 www.midatlanticseeds.com
Pioneer	DuPont-Pioneer, PO Box 1000, Johnston, IA 50131 www.pioneer.com
Seed Consultants	648 Miami Trace Rd SW, Washington Court House, OH 43160 www.seedconsultants.com
NK	Syngenta Seeds, 4013 Fairmount Pike, Signal Mountain, TN 37377 www.syngenta-us.com
SeedKoz	1725 Windward Concourse, Suite 410, Alpharetta, GA 30005 www.meherrinag.com

Table 3. Precipitation received in 2020 at Maryland locations of corn hybrid trials

Month	Wye	Poplar Hill	Salisbury <sup>1</sup>	Keedysville	Clarksville
	inches				
April	5.32	2.36	3.18	4.08	5.60
May	4.11	1.87	1.98	1.95	1.94
June	4.35	4.14	4.15	2.07	3.30
July	4.15	5.26	5.48	1.06	3.08
August	17.46	11.12	9.22	1.77	7.15
September	7.98	4.58	4.95	1.03	2.69
<b>2020 Total (6 mos.)</b>	<b>43.37</b>	<b>29.33</b>	<b>28.96</b>	<b>11.96</b>	<b>23.76</b>
<b>Long Term Average<sup>2</sup></b>	<b>27.73</b>	<b>22.95</b>	<b>25.38</b>	<b>21.01</b>	<b>21.57</b>

<sup>1</sup>The number in parenthesis following precipitation for each month indicates the amount of supplemental irrigation applied.

<sup>2</sup>Long term average precipitation is for the follow number of years at each location: Wye=21; Poplar Hill = 20; Salisbury = 31; Keedysville = 40; Clarksville =11

Table 4. Glossary of abbreviations for hybrid genetic traits and description of seed treatments

<b>Abbreviation</b>	<b>Description</b>
Acceleron	Seed treatment for nematode and insect protection and soil/seed-borne fungal pathogens with the number referring to the concentration of the insecticide used
AM	Insect protection with YieldGard corn stalk borer gene, protection against European corn borer, LL, RR2
Avicta Complete Corn	Nematacide/insecticide/fungicide seed treatment combination
BL	Broad Lepidopteran
BT	Contains a <i>Bacillus thuringiensis</i> (Bt) event for protection against European corn borer
BTCB	Resistance to corn borer
Droughtgard (DG) Double Pro	Contains drought-tolerant biotechnology trait and dual modes of protection against corn earworm and other above-ground pests
EDC	Enhanced disease control offerings
GENVT2PRIB	Provides protection against aboveground Lepidopteran insects, has tolerance to glyphosate, is considered a drought guard hybrid, and has non-Bt seed blended in the bag creating refuge in the bag.
LL	Refers to glufosinate (Liberty) herbicide tolerance
P/V 1250	Combination of Poncho and Votivo with the number referring to the concentration of the insecticide used
Poncho 500	An insecticide seed treatment with the number referring to the concentration of the insecticide used.
Q (Qrome)	Dual modes of action, defend against above- and below-ground pests, Bt protein and HX and HX1 genes.
Radius 500	Seed treatment for nematode and insect protection with the number referring to the concentration of the insecticide used
RR, RR2	Has glyphosate herbicide tolerance
Trecepta	Resistance to Protection against European corn borer, broad Lepidopteran plus glyphosate and glufosinate herbicide tolerance
Vibrance	Seed treatment effective against certain smut diseases and provide protection against seed/soil-borne pathogens Vibrance is effective against certain smut diseases in cereal grains and seed and seedling blight or damping-off caused by seed- and soilborne pathogens including Rhizoctonia
VT2P, VT2PRO	Contains RR2 gene and YieldGard corn stalk borer gene
VT2PDGRIB	Contains RR2 gene, YieldGard corn stalk borer gene, Drought Gard gene, and non-Bt seed blended in the bag creating refuge in the bag
VT2PRIB	Contains RR2 gene and YieldGard corn stalk borer gene and non-Bt seed blended in the bag creating refuge in the bag

Table 5. Relative maturity, genetic traits, and seed treatments for early-season hybrids tested in 2020. Check varieties are bolded.

Brand/Company	Hybrid Name	Relative Maturity	Genetic Traits	Seed Treatment
<b>Mid-Atlantic</b>	<b>MAS 8034</b>	<b>103</b>	<b>VT2PRIBBG</b>	
<b>Pioneer</b>	<b>P0075AM</b>	<b>100</b>		
Local Seed	LC0297 SSXRIB	102	CB/RW/RR/LL	Radius 500
Dekalb	DKC55-54RIB	105	GENDGVT2PRIB	Acceleron 500 + EDC
<b>Dekalb</b>	<b>DKC55-85RIB</b>	<b>105</b>	<b>GENVT2PRIB</b>	<b>Acceleron 500</b>
Hubner	H05G716	105	Droughtgard/Double pro	Poncho 500
Hubner	H4390RC2P	108	Double Pro	Poncho 500
Seed Consultants	SCS 1071AM	107	AM/LL/RR2	P/V 500
Seed Consultants	SCS 1069AM	106	AM/LL/RR2	P/V 500
<b>Dekalb</b>	<b>DKC54-65</b>	<b>104</b>		
<b>Pioneer</b>	<b>P0843AM</b>	<b>108</b>		
Local Seed	LC0607 TCRIB	106	BL/CB/RR	Radius 500
Local Seed	LC0877 VT2PRIB	108	CB/RR	Radius 500

Table 6. Relative maturity, genetic traits, and seed treatments for mid-season hybrids tested in 2020. Check varieties are bolded.

Brand/Company	Hybrid Name	Relative Maturity	Genetic Traits	Seed Treatment
Local Seed	LC0999 VT2PRIB	109	CB/RR	Radius 500
Dekalb	DKC59-82RIB	109	GENVT2PRIB	Acceleron 500 + EDC
Dekalb	DKC61-41RIB	111	GENVT2PRIB	Acceleron 500 + EDC
<b>Dekalb</b>	<b>DKC62-53RIB</b>	<b>112</b>	<b>GENVT2PRIB</b>	<b>Acceleron 500 + EDC</b>
Syngenta	NK1082-5222	110	BT, RR	Avicta Complete Corn + Vibrance
Syngenta	NK1239-5122	112	BT, RR	Avicta Complete Corn + Vibrance
Hubner	H09G056	109	Droughtgard/double pro	Poncho 500
Hubner	H4321RC2P	109	Double Pro	Poncho 500
Hubner	H4692RC2P	112	Double Pro	Poncho 500
Seed Consultants	SCS 1111Q	111	Q/LL/RR2	P/V 500
Seed Consultants	SCS 1121AM	112	AM/LL/RR2	P/V 500
SeedKoz	MC 3952	109	VT2P	Poncho 500
SeedKoz	MC 4255	112	VT2P	Poncho 500
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>109</b>	<b>VT2PRIB</b>	
<b>Pioneer</b>	<b>P1197AM</b>	<b>111</b>		
Local Seed	LC0908 VT2PRIB	109	CB/RR	Radius 500
Local Seed	LC1009 VT2PRIB	110	CB/RR	Radius 500
Local Seed	LC1108 TCPRIB	111	BL/CB/RR	Radius 500
Local Seed	LC1207 TCPRIB	111	BL/CB/RR	Radius 500
Local Seed	LC1289 VT2PRIB	112	CB/RR	Radius 500



Table 7. Relative maturity, genetic traits, and seed treatments for full-season hybrids tested in 2020. Check varieties are bolded.

Brand/Company	Hybrid Name	Relative Maturity	Genetic Traits	Seed Treatment
Dekalb	DKC64-64RIB	113	GENVT2PRIB	Acceleron 500 + EDC
Dekalb	DKC63-91RIB	113	GENVT2PRIB	Acceleron 500 + EDC
Dekalb	DKC65-95RIB	115	GENVT2PRIB	Acceleron 500 + EDC
Dekalb	DKC65-99RIB	115	GENVT2PRIB	Acceleron 500 + EDC
Dekalb	DKC66-18RIB	116	GENVT2PRIB	Acceleron 500 + EDC
<b>Dekalb</b>	<b>DKC67-44RIB</b>	<b>117</b>	<b>GENVT2PRIB</b>	<b>Acceleron 500 + EDC</b>
Dekalb	DKC68-69RIB	118	GENVT2PRIB	Acceleron 500 + EDC
Dekalb	DKC69-99RIB	119	GENVT2PRIB	Acceleron 500 + EDC
Dekalb	DKC70-27RIB	120	GENVT2PRIB	Acceleron 500 + EDC
Syngenta	NK1573-5222	115	BT, RR	Avicta Complete Corn + Vibrance
Syngenta	NK1748-3110	117	BT, RR	Avicta Complete Corn + Vibrance
Hubner	H4663RC2P	113	Double Pro	Poncho 250
Hubner	H4744RC2P	113	Double Pro	Poncho 250
Hubner	H4763RC2P	115	Double Pro	Poncho 500
Hubner	H4828RC2P	116	Double Pro	Poncho 500
Hubner	H4846RC2P	118	Double Pro	Poncho 500
Dyna-Gro	D54VC34	114	Bt, RR	Acceleron 500
Dyna-Gro	D55VC80	115	Bt, RR	Acceleron 500
Seed Consultants	SCS 1141AM	114	AM/LL/RR2	PV 500
Seed Consultants	SCS 1158AM	115	AM/LL/RR2	PV 500
SeedKoz	MC 4319	113	VT2P	Poncho 500
SeedKoz	MC 4670	116	Trecepta	Poncho 500
SeedKoz	MC 4725	117	VT2P	Poncho 500
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	<b>112</b>	<b>VT2PRIB</b>	
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	<b>116</b>	<b>VT2PRIB</b>	
<b>Pioneer</b>	<b>P1415Q</b>	<b>114</b>		
Local Seed	LC1398 VT2PRIB	113	CB/RR	Radius 500
Local Seed	LC1488 VT2PRIB	114	CB/RR	Radius 500
Local Seed	LC1497 DGVT2PRIB	114	CB/RR/DG	Radius 500
Local Seed	LC1577 VT2PRIB	115	CB/RR	Radius 500
Local Seed	LC1307 TCRIB	113	CB/RR	Radius 500

Table 8. Average performance of early maturity hybrids evaluated at five locations in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test weight (lb/bu) <sup>2</sup>
		2020	2019				
<b>Mid-Atlantic<sup>4</sup></b>	<b>MAS 8034</b>	<b>138</b>	-	-	<b>17.2</b>	<b>2.4</b>	<b>56.6</b>
<b>Pioneer</b>	<b>P0075AM</b>	<b>151</b>	-	-	<b>17.3</b>	<b>1.2</b>	<b>54.0</b>
Local Seed	LC0297 SSXRIB	151	-	-	17.9	2.1	55.6
Dekalb	DKC55-54RIB	157	-	-	17.5	1.6	52.9
<b>Dekalb</b>	<b>DKC55-85RIB</b>	<b>156</b>	<b>201</b>	<b>178</b>	<b>17.5</b>	<b>3.4</b>	<b>53.5</b>
Hubner	H05G716	154	-	-	16.9	1.8	52.7
Hubner	H4390RC2P	174	203	188	19.1	2.0	54.2
Seed Consultants	SCS 1071AM	165	-	-	18.4	2.1	54.8
Seed Consultants	SCS 1069AM	158	-	-	18.9	2.8	54.6
<b>Dekalb</b>	<b>DKC54-65</b>	<b>149</b>	-	-	<b>17.2</b>	<b>1.6</b>	<b>55.2</b>
<b>Pioneer</b>	<b>P0843AM</b>	<b>165</b>	-	-	<b>18.5</b>	<b>2.6</b>	<b>53.2</b>
Local Seed	LC0607 TCRIB	160	-	-	17.2	0.9	56.3
Local Seed	LC0877 VT2PRIB	155	-	-	18.2	0.9	55.5
<b>Trial Mean (5 Locations)</b>		<b>157</b>			<b>17.9</b>	<b>2.0</b>	<b>54.5</b>
<b>Probability &gt; F</b>		<b>0.3440</b>					
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>					

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 9. Average performance of mid-season maturity hybrids evaluated at five locations in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>
		2020	2019				
Local Seed	LC0999 VT2PRIB	166	-	-	18.6	0.6	52.9
<b>Dekalb</b>	<b>DKC59-82RIB</b>	<b>180</b>	<b>207</b>	<b>193</b>	<b>19.2</b>	<b>0.8</b>	<b>52.9</b>
Dekalb	DKC61-41RIB	174	-	-	19.3	0.7	52.7
<b>Dekalb<sup>4</sup></b>	<b>DKC62-53RIB</b>	<b>166</b>	<b>197</b>	<b>181</b>	<b>19.1</b>	<b>0.4</b>	<b>52.6</b>
Syngenta	NK1082-5222	166	-	-	19.9	0.9	53.4
Syngenta	NK1239-5122	158	-	-	19.9	1.1	51.4
Hubner	H09G056	171	-	-	19.5	0.5	54.4
Hubner	H4321RC2P	171	-	-	18.9	0.8	52.7
Hubner	H4692RC2P	160	200	180	19.6	0.4	52.5
Seed Consultants	SCS 1111Q	163	-	-	19.2	0.5	54.7
Seed Consultants	SCS 1121AM	159	-	-	19.7	0.4	52.8
SeedKoz	MC 3952	167	-	-	18.6	0.5	55.5
SeedKoz	MC 4255	166	-	-	19.6	0	53.8
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>166</b>	-	-	<b>20.1</b>	<b>0.8</b>	<b>55.0</b>
<b>Pioneer</b>	<b>P1197AM</b>	<b>161</b>	<b>205</b>	<b>183</b>	<b>18.9</b>	<b>0.2</b>	<b>56.1</b>
Local Seed	LC0908 VT2PRIB	173	-	-	18.9	0.8	55.8
Local Seed	LC1009 VT2PRIB	167	-	-	18.2	0.5	55.5
Local Seed	LC1108 TCPRIB	166	-	-	50.4	0.7	50.8
Local Seed	LC1207 TCRIB	175	-	-	19.1	0	53.2
Local Seed	LC1289 VT2PRIB	164	199	181	19.8	1.0	53.9
<b>Trial Mean (5 Locations)</b>		<b>167</b>			<b>19.3</b>	<b>0.6</b>	<b>53.6</b>
<b>Probability &gt; F</b>		<b>0.9868</b>					
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>					

<sup>1</sup>See Table 6 for trait designations for mid-season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 10. Average performance of full-season maturity hybrids evaluated at five locations in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>
		2020	2019				
Dekalb	DKC64-64RIB	169	-	-	19.6	1.0	56.4
Dekalb	DKC63-91RIB	169	-	-	20.0	0.5	58.5
Dekalb	DKC65-95RIB	165	212	188	19.9	0.2	58.7
Dekalb	DKC65-99RIB	169	-	-	19.6	1.4	58.7
Dekalb	DKC66-18RIB	170	217	193	21.6	1.2	59.6
<b>Dekalb</b>	<b>DKC67-44RIB</b>	<b>172</b>	<b>219</b>	<b>195</b>	<b>20.6</b>	<b>0.2</b>	<b>62.6</b>
Dekalb	DKC68-69RIB	167	-	-	21.8	3.0	60.6
Dekalb	DKC69-99RIB	175	-	-	19.8	2.4	59.2
Dekalb	DKC70-27RIB	172	199	185	21.1	0.5	57.6
Syngenta	NK1573-5222	158	-	-	21.3	1.1	55.5
Syngenta	NK1748-3110	161	-	-	20.8	2.1	53.9
Hubner	H4663RC2P	161	223	192	18.7	0.4	56.4
<b>Hubner</b>	<b>H4744RC2P</b>	<b>174</b>	<b>202</b>	<b>188</b>	<b>20.1</b>	<b>0.6</b>	<b>57.4</b>
Hubner	H4763RC2P	169	-	-	20.0	0.9	55.9
Hubner	H4828RC2P	165	-	-	20.5	0.8	54.9
Hubner	H4846RC2P	170	207	188	19.8	0.4	59.1
Dyna-Gro	D54VC34	173	-	-	19.9	0.9	56.2
Dyna-Gro	D55VC80	173	220	196	20.4	0.4	54.3
Seed Consultants	SCS 1141AM	158	-	-	20.6	1.7	55.2
Seed Consultants	SCS 1158AM	168	-	-	19.6	1.0	58.6
SeedKoz	MC 4319	164	-	-	20.3	0.4	55.8
SeedKoz	MC 4670	167	-	-	19.5	2.3	58.2
SeedKoz	MC 4725	159	-	-	21.6	2.7	55.9
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	<b>162</b>	-	-	<b>18.3</b>	<b>1.3</b>	<b>57.4</b>
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	<b>173</b>	-	-	<b>20.0</b>	<b>1.0</b>	<b>59.4</b>
<b>Pioneer</b>	<b>P1415Q</b>	<b>151</b>	-	-	<b>19.5</b>	<b>3.4</b>	<b>57.4</b>
Local Seed	LC1398 VT2PRIB	158	-	-	19.3	3.4	56.3
Local Seed	LC1488 VT2PRIB	170	207	188	18.2	1.3	58.1
Local Seed	LC1497 DGVVT2PRIB	152	-	-	18.0	0.4	55.4
Local Seed	LC1577 VT2PRIB	173	222	197	19.8	0.9	56.8
Local Seed	LC1307 TCRIB	167	-	-	19.1	0.2	56.3
<b>Trial Mean (5 locations)</b>		<b>166</b>			<b>20.0</b>	<b>1.2</b>	<b>57.4</b>
<b>Probability &gt; F</b>		<b>0.9977</b>					
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>					

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 11. Performance of early season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
<b>Mid-Atlantic<sup>4</sup></b>	<b>MAS 8034</b>	<b>145</b>	-	-	<b>16.9</b>	<b>0.8</b>	<b>59.2</b>	<b>23591</b>
<b>Pioneer</b>	<b>P0075AM</b>	<b>166</b>	-	-	<b>16.5</b>	<b>2.0</b>	<b>57.0</b>	<b>29358</b>
Local Seed	LC0297 SSXRIB	167	-	-	17.9	2.2	58.6	29399
Dekalb	DKC55-54RIB	192*	-	-	16.5	0.7	50.4	30371
<b>Dekalb</b>	<b>DKC55-85RIB</b>	<b>198*</b>	<b>195</b>	<b>196</b>	<b>16.6</b>	<b>1.3</b>	<b>54.9</b>	<b>33023</b>
Hubner	H05G716	179	-	-	15.2	0	45.6	31349
<b>Hubner</b>	<b>H4390RC2P</b>	<b>215*</b>	<b>195</b>	<b>205</b>	<b>19.1</b>	<b>0</b>	<b>54.9</b>	<b>31045</b>
Seed Consultants	SCS 1071AM	205*	-	-	18.2	1.4	54.7	28736
Seed Consultants	SCS 1069AM	190	-	-	19.2	4.8	54.5	27104
<b>Dekalb</b>	<b>DKC54-65</b>	<b>169</b>	-	-	<b>15.9</b>	<b>0</b>	<b>57.9</b>	<b>27339</b>
<b>Pioneer</b>	<b>P0843AM</b>	<b>202*</b>	-	-	<b>18.7</b>	<b>1.9</b>	<b>53.2</b>	<b>30865</b>
Local Seed	LC0607 TCRIB	188	-	-	17.9	0	55.4	31174
Local Seed	LC0877 VT2PRIB	172	-	-	18.4	0	56.3	27367
<b>Trial Mean</b>		<b>184</b>	-	-	<b>17.5</b>	<b>1.1</b>	<b>54.8</b>	<b>29286</b>
<b>Probability &gt; F</b>		<b>0.0013</b>			<b>&lt;0.0001</b>	<b>0.5018</b>	<b>0.0279</b>	<b>&lt;0.0001</b>
<b>LSD<sub>0.1</sub></b>		<b>23</b>			<b>0.7</b>	<b>NS<sup>5</sup></b>	<b>5.5</b>	<b>2209</b>
<b>CV%</b>		<b>13</b>			<b>7.6</b>	<b>210</b>	<b>8.8</b>	<b>9.4</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 12. Performance of mid-season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Local Seed	LC0999 VT2PRIB	208	-	-	18.6	0.6	50.8	31197
Dekalb	DKC59-82RIB	218	197	207	19.0	2.0	54.0	31017
Dekalb	DKC61-41RIB	219	-	-	19.3	0.6	50.4	31377
<b>Dekalb<sup>4</sup></b>	<b>DKC62-53RIB</b>	<b>200</b>	<b>213</b>	<b>206</b>	<b>18.5</b>	<b>1.3</b>	<b>45.8</b>	<b>30810</b>
Syngenta	NK1082-5222	197	-	-	20.9	0	52.4	29773
Syngenta	NK1239-5122	190	-	-	19.8	0.6	37.9	32774
Hubner	H09G056	212	-	-	20.0	0	54.0	31405
Hubner	H4321RC2P	214	-	-	19.5	0	43.3	33313
Hubner	H4692RC2P	199	199	199	19.5	0	52.0	30948
Seed Consultants	SCS 1111Q	198	-	-	19.8	0	38.8	29275
Seed Consultants	SCS 1121AM	123	-	-	20.0	1.4	36.8	20480
SeedKoz	MC 3952	131	-	-	18.5	0.6	39.0	29759
SeedKoz	MC 4255	209	-	-	20.8	0	48.5	29925
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>202</b>	-	-	<b>20.7</b>	<b>2.1</b>	<b>52.5</b>	<b>29607</b>
<b>Pioneer</b>	<b>P1197AM</b>	<b>196</b>	<b>190</b>	<b>193</b>	<b>18.8</b>	<b>0</b>	<b>45.3</b>	<b>30271</b>
Local Seed	LC0908 VT2PRIB	197	-	-	19.6	2.8	54.4	29261
Local Seed	LC1009 VT2PRIB	208	-	-	18.9	1.3	55.9	31778
Local Seed	LC1108 TCPRIB	210	-	-	21.3	0	48.5	30229
Local Seed	LC1207 TCRIB	215	-	-	19.5	0	48.9	27477
Local Seed	LC1289 VT2PRIB	199	189	194	20.8	3.1	48.0	26772
<b>Trial Mean</b>		<b>204</b>			<b>19.7</b>	<b>0.8</b>	<b>48.3</b>	<b>29822</b>
<b>Probability &gt; F</b>		<b>0.3741</b>			<b>&lt;0.0001</b>	<b>0.3461</b>	<b>0.6552</b>	<b>0.0318</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>1.0</b>	<b>NS<sup>5</sup></b>	<b>NS</b>	<b>5255</b>
<b>CV%</b>		<b>7.8</b>			<b>5.2</b>	<b>215</b>	<b>15.4</b>	<b>15.0</b>

<sup>1</sup>See Table 7 for trait designations for mid-season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 13. Performance of full season maturity hybrids evaluated at Wye Research and Education Center, Queenstown, MD in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Dekalb	DKC64-64RIB	217*	-	-	21.4	0	58.0	31377
Dekalb	DKC63-91RIB	188	-	-	21.3	0.7	57.1	31170
Dekalb	DKC65-95RIB	190	197	193	21.9	0	70.7	29123
Dekalb	DKC65-99RIB	212*	-	-	21.4	0	60.8	32068
Dekalb	DKC66-18RIB	205	208	206	23.3	4.1	64.4	29883
<b>Dekalb</b>	<b>DKC67-44RIB</b>	<b>215*</b>	<b>208</b>	<b>211</b>	<b>22.6</b>	<b>0</b>	<b>64.4</b>	<b>27643</b>
Dekalb	DKC68-69RIB	220*	-	-	23.2	6.9	62.3	29358
Dekalb	DKC69-99RIB	219*	-	-	22.0	0.8	61.0	29579
Dekalb	DKC70-27RIB	208	204	206	22.9	0	64.6	31031
Syngenta	NK1573-5222	180	-	-	21.9	0	62.7	32207
Syngenta	NK1748-3110	192	-	-	22.9	2.6	57.6	30423
Hubner	H4663RC2P	206	185	195	20.2	0	60.7	32787
Hubner	H4744RC2P	206	210	208	21.8	0	62.9	30457
Hubner	H4763RC2P	200	-	-	21.3	2.0	59.3	30616
Hubner	H4828RC2P	196	-	-	21.7	0	62.7	30686
Hubner	H4846RC2P	208	214	211	21.0	0.7	61.0	29963
Dyna-Gro	D54VC34	222*	-	-	21.3	1.4	56.8	27616
Dyna-Gro	D55VC80	209	215	212	22.5	0	-	30450
Seed Consultants	SCS 1141AM	184	-	-	21.6	2.6	-	28556
Seed Consultants	SCS 1158AM	235*	-	-	21.2	0	63.3	29676
SeedKoz	MC 4319	207	-	-	21.4	0.6	61.0	34074
SeedKoz	MC 4670	193	-	-	20.9	1.0	-	26067
SeedKoz	MC 4725	201	-	-	23.1	0	61.2	32359
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	<b>188</b>	-	-	<b>18.4</b>	<b>0.6</b>	-	<b>30298</b>
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	<b>218*</b>	-	-	<b>22.2</b>	<b>0</b>	<b>60.5</b>	<b>33465</b>
<b>Pioneer</b>	<b>P1415Q</b>	<b>180</b>	-	-	<b>21.3</b>	<b>0.7</b>	<b>60.2</b>	<b>29303</b>
Local Seed	LC1398 VT2PRIB	192	-	-	21.3	5.0	60.9	29124
Local Seed	LC1488 VT2PRIB	207	181	194	18.7	1.3	59.9	30950
Local Seed	LC1497 DGVVT2PRIB	184	-	-	20.0	0	57.8	31418
Local Seed	LC1577 VT2PRIB	217*	208	212	20.5	0.6	69.7	31308
Local Seed	LC1307 TCRIB	206	-	-	20.4	0	58.5	29510
<b>Trial Mean</b>		<b>203</b>			<b>21.5</b>	<b>1.0</b>	<b>61.7</b>	<b>30405</b>
<b>Probability &gt; F</b>		<b>0.0199</b>			<b>&lt;0.0001</b>	<b>0.5018</b>	<b>0.1151</b>	<b>0.1296</b>
<b>LSD<sub>0.1</sub></b>		<b>24</b>			<b>0.7</b>	<b>NS<sup>5</sup></b>	<b>NS</b>	<b>NS</b>
<b>CV%</b>		<b>9.9</b>			<b>5.8</b>	<b>224</b>	<b>6.2</b>	<b>8.8</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 14. Performance of early season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Poplar Hill Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
<b>Mid-Atlantic<sup>4</sup></b>	<b>MAS 8034</b>	140	-	-	20.4	2.3	52.0	23776
<b>Pioneer</b>	<b>P0075AM</b>	148	-	-	20.2	1.2	50.5	27225
Local Seed	LC0297 SXRIB	143	-	-	20.4	0.8	50.9	23958
Dekalb	DKC55-54RIB	138	-	-	20.9	0.7	47.2	27588
<b>Dekalb</b>	<b>DKC55-85RIB</b>	139	142	140	21.1	7.0	43.3	32125
Hubner	H05G716	149	-	-	20.8	1.3	49.0	28132
Hubner	H4390RC2P	175	153	164	22.0	1.7	49.9	32048
Seed Consultants	SCS 1071AM	154	-	-	22.5	3.4	48.5	28132
Seed Consultants	SCS 1069AM	154	-	-	22.1	4.0	52.1	30855
<b>Dekalb</b>	<b>DKC54-65</b>	133	-	-	20.9	0	47.9	29040
<b>Pioneer</b>	<b>P0843AM</b>	169	-	-	22.0	4.0	50.1	29766
Local Seed	LC0607 TCRIB	149	-	-	20.5	0	52.9	30673
Local Seed	LC0877 VT2PRIB	153	-	-	21.2	0.7	51.4	28132
<b>Trial Mean</b>		<b>150</b>			<b>21.1</b>	<b>2.1</b>	<b>49.7</b>	<b>28573</b>
<b>Probability &gt; F</b>		<b>0.2251</b>			<b>&lt;0.0001</b>	<b>0.2883</b>	<b>0.0606</b>	<b>0.0002</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>0.4</b>	<b>NS</b>	<b>4.3</b>	<b>2753</b>
<b>CV%</b>		<b>14.4</b>			<b>3.6</b>	<b>155</b>	<b>7.2</b>	<b>10.8</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.



Table 15. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Poplar Hill Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Local Seed	LC0999 VT2PRIB	149	-	-	21.8	0.5	49.2	30129
Dekalb	DKC59-82RIB	179	137	-	23.1	0.6	48.7	30673
Dekalb	DKC61-41RIB	179	-	-	22.8	1.2	48.8	29221
<b>Dekalb<sup>4</sup></b>	<b>DKC62-53RIB</b>	<b>148</b>	<b>143</b>	<b>145</b>	<b>22.7</b>	<b>0</b>	<b>45.0</b>	<b>29221</b>
Syngenta	NK1082-5222	154	-	-	23.5	2.4	52.8	28677
Syngenta	NK1239-5122	152	-	-	23.3	0	48.6	29766
Hubner	H09G056	155	-	-	22.9	0	54.7	27588
Hubner	H4321RC2P	162	-	-	22.7	0	51.6	26862
Hubner	H4692RC2P	147	135	141	23.3	0	44.0	30310
Seed Consultants	SCS 1111Q	170	-	-	22.8	1.3	47.8	30450
Seed Consultants	SCS 1121AM	151	-	-	23.2	0	51.5	26136
SeedKoz	MC 3952	189	-	-	21.9	0.6	58.5	33663
SeedKoz	MC 4255	165	-	-	23.4	0	55.8	27769
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>153</b>	-	-	<b>23.5</b>	<b>0</b>	<b>51.7</b>	<b>29766</b>
<b>Pioneer</b>	<b>P1197AM</b>	<b>156</b>	<b>155</b>	<b>155</b>	<b>22.4</b>	<b>0.7</b>	<b>52.7</b>	<b>26862</b>
Local Seed	LC0908 VT2PRIB	172	-	-	22.4	0	51.0	31762
Local Seed	LC1009 VT2PRIB	153	-	-	22.0	1.2	50.6	29221
Local Seed	LC1108 TCPRIB	160	-	-	23.6	1.8	45.6	27221
Local Seed	LC1207 TCRIB	184	-	-	23.3	0	51.1	27043
Local Seed	LC1289 VT2PRIB	170	144	157	23.1	0	54.3	27091
<b>Trial Mean</b>		<b>162</b>			<b>22.9</b>	<b>0.5</b>	<b>50.7</b>	<b>29045</b>
<b>Probability &gt; F</b>		<b>0.4916</b>			<b>0.0011</b>	<b>0.4914</b>	<b>0.0458</b>	<b>0.0193</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>0.7</b>	<b>NS</b>	<b>6.3</b>	<b>NS</b>
<b>CV%</b>		<b>15.8</b>			<b>3.0</b>	<b>242</b>	<b>10.6</b>	<b>9.7</b>

<sup>1</sup>See Table 7 for trait designations for mid-season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 16. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Poplar Hill Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Dekalb	DKC64-64RIB	161	-	-	21.0	1.8	49.6	30855
Dekalb	DKC63-91RIB	174	-	-	23.5	1.3	55.8	30969
Dekalb	DKC65-95RIB	171	183	177	21.0	0	57.0	27225
Dekalb	DKC65-99RIB	184*	-	-	21.3	1.1	58.6	30310
Dekalb	DKC66-18RIB	194*	175	184	23.0	0.7	56.4	29766
<b>Dekalb</b>	<b>DKC67-44RIB</b>	<b>192*</b>	<b>181</b>	<b>186</b>	<b>22.3</b>	<b>0</b>	<b>67.5</b>	<b>23776</b>
Dekalb	DKC68-69RIB	182*	-	-	23.2	3.3	58.3	26862
Dekalb	DKC69-99RIB	184*	-	-	21.5	1.9	58.4	29040
Dekalb	DKC70-27RIB	180*	143	161	23.1	0	52.3	28314
Syngenta	NK1573-5222	177	-	-	23.2	1.4	53.4	29126
Syngenta	NK1748-3110	184*	-	-	23.0	0.6	51.7	29710
Hubner	H4663RC2P	161	166	163	19.9	0	52.4	26408
Hubner	H4744RC2P	183*	165	174	21.3	0.5	55.9	32488
<b>Hubner</b>	<b>H4763RC2P</b>	<b>203*</b>	<b>-</b>	<b>-</b>	<b>22.2</b>	<b>1.2</b>	<b>55.3</b>	<b>31200</b>
Hubner	H4828RC2P	176	-	-	22.7	0.7	50.5	26732
Hubner	H4846RC2P	190*	168	179	21.6	0	59.6	26556
Dyna-Gro	D54VC34	187*	-	-	21.3	0.7	56.1	25954
Dyna-Gro	D55VC80	191*	176	183	22.3	0.8	51.3	27653
Seed Consultants	SCS 1141AM	162	-	-	22.3	0.7	53.6	26862
Seed Consultants	SCS 1158AM	170	-	-	21.3	0.6	56.6	26680
SeedKoz	MC 4319	186*	-	-	21.7	0	53.3	31581
SeedKoz	MC 4670	185*	-	-	21.1	1.5	53.5	30097
SeedKoz	MC 4725	171	-	-	52.0	1.5	53.0	26954
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	<b>182*</b>	<b>-</b>	<b>-</b>	<b>19.5</b>	<b>0.7</b>	<b>60.1</b>	<b>30654</b>
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	<b>193*</b>	<b>-</b>	<b>-</b>	<b>21.1</b>	<b>0.6</b>	<b>63.2</b>	<b>30855</b>
<b>Pioneer</b>	<b>P1415Q</b>	<b>163</b>	<b>-</b>	<b>-</b>	<b>21.0</b>	<b>3.6</b>	<b>55.9</b>	<b>25700</b>
Local Seed	LC1398 VT2PRIB	166	-	-	20.6	0	55.7	25954
Local Seed	LC1488 VT2PRIB	185*	179	182	19.0	1.3	59.0	30788
Local Seed	LC1497 DGVT2PRIB	133	-	-	17.8	0	57.0	26850
Local Seed	LC1577 VT2PRIB	191	182	186	21.3	0	53.9	28745
Local Seed	LC1307 TCRIB	175	-	-	20.7	0.7	57.6	28314
<b>Trial Mean</b>		<b>179</b>			<b>21.6</b>	<b>0.9</b>	<b>55.9</b>	<b>28523</b>
<b>Probability &gt; F</b>		<b>0.0120</b>			<b>0.0006</b>	<b>0.6812</b>	<b>0.0185</b>	<b>0.0489</b>
<b>LSD<sub>0.1</sub></b>		<b>23</b>			<b>2</b>	<b>NS</b>	<b>6.5</b>	<b>3972</b>
<b>CV%</b>		<b>12.3</b>			<b>8.7</b>	<b>187</b>	<b>9.7</b>	<b>11.2</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 17. Performance of early season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Salisbury Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
<b>Mid-Atlantic<sup>4</sup></b>	<b>MAS 8034</b>	157	-	-	16.5	2.0	59.0	32720
<b>Pioneer</b>	<b>P0075AM</b>	201*	-	-	16.6	0.6	57.0	35103
Local Seed	LC0297 SXRIB	196	-	-	16.7	0.6	58.3	33506
Dekalb	DKC55-54RIB	188	-	-	16.4	1.1	59.6	34303
<b>Dekalb</b>	<b>DKC55-85RIB</b>	195	228	211	16.1	2.5	60.1	36481
Hubner	H05G716	176	-	-	15.4	0.7	58.1	33759
<b>Hubner</b>	<b>H4390RC2P</b>	<b>216*</b>	<b>217</b>	<b>216</b>	<b>17.8</b>	<b>2.0</b>	<b>57.4</b>	<b>35937</b>
Seed Consultants	SCS 1071AM	193	-	-	17.6	2.4	60.5	37462
Seed Consultants	SCS 1069AM	177	-	-	17.9	0	59.7	36144
<b>Dekalb</b>	<b>DKC54-65</b>	178	-	-	15.4	1.0	60.3	35574
<b>Pioneer</b>	<b>P0843AM</b>	183	-	-	17.5	4.2	58.8	34485
Local Seed	LC0607 TCRIB	187	-	-	15.7	0	64.1	35211
Local Seed	LC0877 VT2PRIB	183	-	-	17.2	0.5	58.6	33759
<b>Trial Mean</b>		<b>187</b>			<b>16.7</b>	<b>1.4</b>	<b>59.3</b>	<b>34957</b>
<b>Probability &gt; F</b>		<b>0.0068</b>			<b>&lt;0.0001</b>	<b>0.3431</b>	<b>0.8516</b>	<b>0.4687</b>
<b>LSD<sub>0.1</sub></b>		<b>19</b>			<b>0.5</b>	<b>NS<sup>5</sup></b>	<b>NS</b>	<b>NS</b>
<b>CV%</b>		<b>9.9</b>			<b>5.3</b>	<b>145</b>	<b>6.4</b>	<b>6.7</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 18. Performance of mid-season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Salisbury Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Local Seed	LC0999 VT2PRIB	201*	-	-	16.3	0	58.6	34122
Dekalb	DKC59-82RIB	212*	217	214	17.6	0.5	56.6	36118
Dekalb	DKC61-41RIB	205*	-	-	17.7	0	58.2	33940
<b>Dekalb<sup>4</sup></b>	<b>DKC62-53RIB</b>	<b>211*</b>	<b>197</b>	<b>204</b>	<b>17.7</b>	<b>0.5</b>	<b>60.9</b>	<b>35029</b>
Syngenta	NK1082-5222	201*	-	-	17.2	1.0	56.4	34303
Syngenta	NK1239-5122	181	-	-	18.4	2.1	56.6	35029
Hubner	H09G056	210*	-	-	17.9	0	54.8	34485
Hubner	H4321RC2P	195*	-	-	17.0	0.6	57.4	32307
Hubner	H4692RC2P	189	213	201	18.0	1.0	59.3	35755
Seed Consultants	SCS 1111Q	176	-	-	17.9	1.1	66.7	33759
Seed Consultants	SCS 1121AM	189	-	-	18.1	0.6	60.2	30855
SeedKoz	MC 3952	191	-	-	16.7	0.5	60.0	35937
SeedKoz	MC 4255	190	-	-	17.4	0	60.2	32488
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>191</b>	-	-	<b>18.1</b>	<b>0.6</b>	<b>61.2</b>	<b>32851</b>
<b>Pioneer</b>	<b>P1197AM</b>	<b>173</b>	<b>198</b>	<b>185</b>	<b>17.5</b>	<b>0.5</b>	<b>61.2</b>	<b>33033</b>
Local Seed	LC0908 VT2PRIB	194	-	-	16.6	0.8	62.5	33759
Local Seed	LC1009 VT2PRIB	196*	-	-	17.3	0	60.2	35755
Local Seed	LC1108 TCPRIB	182	-	-	18.2	1.1	52.8	32851
Local Seed	LC1207 TCRIB	200*	-	-	17.5	0	62.6	33577
Local Seed	LC1289 VT2PRIB	197*	212	204	17.7	0	58.4	34061
<b>Trial Mean</b>		<b>194</b>			<b>17.5</b>	<b>0.5</b>	<b>59.3</b>	<b>33997</b>
<b>Probability &gt; F</b>		<b>0.0073</b>			<b>0.0001</b>	<b>0.7543</b>	<b>0.5381</b>	<b>0.0721</b>
<b>LSD<sub>0.1</sub></b>		<b>17</b>			<b>0.7</b>	<b>NS<sup>5</sup></b>	<b>NS</b>	<b>2468</b>
<b>CV%</b>		<b>8.0</b>			<b>4.1</b>	<b>196</b>	<b>9.3</b>	<b>5.9</b>

<sup>1</sup>See Table 7 for trait designations for mid-season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 19. Performance of full season maturity hybrids evaluated at Lower Eastern Shore Research and Education Center – Salisbury Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Dekalb	DKC64-64RIB	189	-	-	16.8	2.2	67.7	34666
Dekalb	DKC63-91RIB	212	-	-	17.5	0	68.7	36844
Dekalb	DKC65-95RIB	204	214	211	17.8	0	63.7	38115
Dekalb	DKC65-99RIB	193	-	-	17.6	4.2	61.9	35665
Dekalb	DKC66-18RIB	200	219	209	20.3	1.0	68.8	33033
<b>Dekalb</b>	<b>DKC67-44RIB</b>	<b>194</b>	<b>205</b>	<b>199</b>	<b>18.0</b>	<b>1.6</b>	<b>71.9</b>	<b>33215</b>
Dekalb	DKC68-69RIB	199	-	-	20.3	2.5	75.1	34303
Dekalb	DKC69-99RIB	200	-	-	17.7	7.5	62.5	32670
Dekalb	DKC70-27RIB	203	190	196	18.2	2.1	66.2	36481
Syngenta	NK1573-5222	184	-	-	18.5	0.5	59.4	35574
Syngenta	NK1748-3110	176	-	-	17.5	3.6	54.4	35029
Hubner	H4663RC2P	189	189	189	15.7	0	62.3	34303
Hubner	H4744RC2P	212	206	209	17.8	0	61.4	33940
Hubner	H4763RC2P	194	-	-	16.6	0.8	58.5	34576
Hubner	H4828RC2P	194	-	-	19.1	2.2	56.6	34848
Hubner	H4846RC2P	196	198	197	18.0	0.5	62.0	36118
Dyna-Gro	D54VC34	195	-	-	17.5	2.5	57.6	31218
Dyna-Gro	D55VC80	206	218	212	17.5	0	57.8	36663
Seed Consultants	SCS 1141AM	187	-	-	18.0	1.6	56.3	34848
Seed Consultants	SCS 1158AM	194	-	-	17.3	1.1	64.5	32670
SeedKoz	MC 4319	194	-	-	18.4	0.5	55.4	36300
SeedKoz	MC 4670	198	-	-	17.7	3.8	67.2	33759
SeedKoz	MC 4725	185	-	-	19.8	5.0	60.2	33740
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	<b>195</b>	-	-	<b>17.2</b>	<b>5.3</b>	<b>61.2</b>	<b>34303</b>
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	<b>196</b>	-	-	<b>17.7</b>	<b>4.3</b>	<b>62.0</b>	<b>34848</b>
<b>Pioneer</b>	<b>P1415Q</b>	<b>176</b>	-	-	<b>17.0</b>	<b>3.8</b>	<b>60.5</b>	<b>31944</b>
Local Seed	LC1398 VT2PRIB	184	-	-	18.3	9.8	57.6	34848
Local Seed	LC1488 VT2PRIB	199	202	200	16.1	3.9	63.5	33214
Local Seed	LC1497 DGVT2PRIB	190	-	-	16.1	0	55.8	34666
Local Seed	LC1577 VT2PRIB	206	204	205	18.6	2.6	54.4	36300
Local Seed	LC1307 TCRIB	200	-	-	17.4	0	55.3	37026
<b>Trial Mean</b>		<b>195</b>			<b>17.8</b>	<b>2.5</b>	<b>61.4</b>	<b>34718</b>
<b>Probability &gt; F</b>		<b>0.1587</b>			<b>&lt;0.0001</b>	<b>0.2142</b>	<b>0.5158</b>	<b>0.0114</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>1.3</b>	<b>NS<sup>5</sup></b>	<b>NS</b>	<b>2699</b>
<b>CV%</b>		<b>7.5</b>			<b>7.4</b>	<b>160</b>	<b>14.1</b>	<b>6.5</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 20. Performance of early season maturity hybrids evaluated at Western Maryland Research and Education Center in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
<b>Mid-Atlantic<sup>4</sup></b>	<b>MAS 8034</b>	<b>110</b>	-	-	<b>15.9</b>	<b>4.4</b>	<b>56.2</b>	<b>24115</b>
<b>Pioneer</b>	<b>P0075AM</b>	<b>117</b>	-	-	<b>15.3</b>	<b>0</b>	<b>54.6</b>	<b>25591</b>
Local Seed	LC0297 SSXRIB	117	-	-	18.3	0	57.4	27693
Dekalb	DKC55-54RIB	134	-	-	15.5	2.3	55.2	28415
<b>Dekalb</b>	<b>DKC55-85RIB</b>	<b>119</b>	<b>200</b>	<b>159</b>	<b>16.1</b>	<b>0</b>	<b>57.1</b>	<b>28132</b>
Hubner	H05G716	125*	-	-	15.4	1.3	57.3	30106
Hubner	H4390RC2P	122	219	170	17.6	0	56.9	27225
Seed Consultants	SCS 1071AM	127*	-	-	15.8	0.7	57.1	27769
Seed Consultants	SCS 1069AM	129*	-	-	17.0	0	54.3	32098
<b>Dekalb</b>	<b>DKC54-65</b>	<b>116</b>	-	-	<b>15.9</b>	<b>4.7</b>	<b>56.6</b>	<b>29584</b>
<b>Pioneer</b>	<b>P0843AM</b>	<b>132*</b>	-	-	<b>16.1</b>	<b>0</b>	<b>54.2</b>	<b>29721</b>
Local Seed	LC0607 TCRIB	120	-	-	14.8	3.4	55.5	26680
Local Seed	LC0877 VT2PRIB	126*	-	-	16.5	0.6	57.5	27588
<b>Trial Mean</b>		<b>123</b>			<b>15.9</b>	<b>1.3</b>	<b>56.1</b>	<b>28055</b>
<b>Probability &gt; F</b>		<b>0.0091</b>			<b>&lt;0.0001</b>	<b>0.6427</b>	<b>0.7726</b>	<b>0.0050</b>
<b>LSD<sub>0.1</sub></b>		<b>10</b>			<b>0.6</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>	<b>2683</b>
<b>CV%</b>		<b>7.2</b>			<b>5.4</b>	<b>248</b>	<b>4.4</b>	<b>9.1</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 21. Performance of mid-season maturity hybrids evaluated at Western Maryland Research and Education Center in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Local Seed	LC0999 VT2PRIB	116	-	-	17.2	0	54.3	28495
Dekalb	DKC59-82RIB	128	242	185	17.4	0.8	55.5	30540
Dekalb	DKC61-41RIB	125	-	-	18.4	1.6	55.8	27925
<b>Dekalb<sup>4</sup></b>	<b>DKC62-53RIB</b>	<b>123</b>	<b>229</b>	<b>176</b>	<b>18.8</b>	<b>0</b>	<b>55.7</b>	<b>27400</b>
Syngenta	NK1082-5222	122	-	-	17.2	0.6	56.7	30903
Syngenta	NK1239-5122	116	-	-	18.1	1.2	53.7	28495
Hubner	H09G056	125	-	-	18.5	0	56.4	28930
Hubner	H4321RC2P	128	-	-	16.7	2.8	56.0	30322
Hubner	H4692RC2P	119	223	171	18.0	0.7	56.3	27043
Seed Consultants	SCS 1111Q	129	-	-	17.0	0	59.0	30992
Seed Consultants	SCS 1121AM	125	-	-	17.6	0	57.8	26199
SeedKoz	MC 3952	124	-	-	16.7	0	56.5	31052
SeedKoz	MC 4255	122	-	-	17.5	0	55.0	28955
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>108</b>	-	-	<b>18.2</b>	<b>1.3</b>	<b>57.5</b>	<b>24775</b>
<b>Pioneer</b>	<b>P1197AM</b>	<b>132</b>	<b>224</b>	-	<b>16.9</b>	<b>0</b>	<b>56.5</b>	<b>26987</b>
Local Seed	LC0908 VT2PRIB	<b>131</b>	-	-	<b>17.1</b>	<b>0</b>	<b>55.8</b>	<b>30803</b>
Local Seed	LC1009 VT2PRIB	<b>116</b>	-	-	<b>14.4</b>	<b>0</b>	<b>60.1</b>	<b>30782</b>
Local Seed	LC1108 TCPRI	<b>120</b>	-	-	<b>18.4</b>	<b>0.6</b>	<b>55.5</b>	<b>28411</b>
Local Seed	LC1207 TCRIB	<b>128</b>	-	-	<b>16.8</b>	<b>0</b>	<b>55.1</b>	<b>28599</b>
Local Seed	LC1289 VT2PRIB	<b>119</b>	<b>219</b>	<b>169</b>	<b>17.6</b>	<b>1.4</b>	<b>55.3</b>	<b>26525</b>
<b>Trial Mean</b>		<b>123</b>			<b>17.4</b>	<b>0.5</b>	<b>56.2</b>	<b>28759</b>
<b>Probability &gt; F</b>		<b>0.5625</b>			<b>0.0050</b>	<b>0.4979</b>	<b>0.3767</b>	<b>0.4736</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>1.3</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>8.9</b>			<b>7.0</b>	<b>246</b>	<b>4.4</b>	<b>10.8</b>

<sup>1</sup>See Table 7 for trait designations for mid-season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 22. Performance of full season maturity hybrids evaluated at Western Maryland Research and Education Center in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Dekalb	DKC64-64RIB	125	-	-	18.5	0	54.5	31040
Dekalb	DKC63-91RIB	131	-	-	17.9	0	56.4	30734
Dekalb	DKC65-95RIB	122	227	174	18.3	1.2	55.3	29665
Dekalb	DKC65-99RIB	115	-	-	18.5	0	56.7	29947
Dekalb	DKC66-18RIB	115	230	172	20.5	0	55.8	29947
<b>Dekalb</b>	<b>DKC67-44RIB</b>	<b>114</b>	<b>230</b>	<b>172</b>	<b>18.6</b>	<b>0</b>	<b>55.9</b>	<b>29403</b>
Dekalb	DKC68-69RIB	119	-	-	21.0	2.1	56.8	24865
Dekalb	DKC69-99RIB	112	-	-	18.4	0	58.4	27769
Dekalb	DKC70-27RIB	131	201	166	20.2	0	55.2	32763
Syngenta	NK1573-5222	113	-	-	20.4	3.0	54.0	26395
Syngenta	NK1748-3110	115	-	-	18.7	3.6	55.1	27588
Hubner	H4663RC2P	129	217	173	17.3	0.8	55.2	27922
Hubner	H4744RC2P	128	234	181	19.1	2.2	55.5	29451
Hubner	H4763RC2P	118	-	-	18.7	0.6	55.2	28169
Hubner	H4828RC2P	114	-	-	18.5	1.3	56.8	28592
Hubner	H4846RC2P	111	235	173	18.2	0.7	57.5	28521
Dyna-Gro	D54VC34	111	-	-	18.9	0	55.2	26968
Dyna-Gro	D55VC80	117	226	171	19.0	0	54.6	30585
Seed Consultants	SCS 1141AM	117	-	-	19.6	3.2	55.3	28132
Seed Consultants	SCS 1158AM	113	-	-	18.5	3.1	56.6	27431
SeedKoz	MC 4319	110	-	-	19.8	0	54.6	30310
SeedKoz	MC 4670	120	-	-	17.8	0	58.7	29558
SeedKoz	MC 4725	112	-	-	19.2	6.8	55.5	26499
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	<b>114</b>	-	-	<b>17.6</b>	<b>0</b>	<b>55.4</b>	<b>28387</b>
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	<b>115</b>	-	-	<b>18.2</b>	<b>0</b>	<b>56.8</b>	<b>29536</b>
<b>Pioneer</b>	<b>P1415Q</b>	<b>112</b>	-	-	<b>18.4</b>	<b>8.7</b>	<b>56.3</b>	<b>27951</b>
Local Seed	LC1398 VT2PRIB	120	-	-	18.0	2.1	55.8	27467
Local Seed	LC1488 VT2PRIB	123	232	177	17.6	0	54.9	29068
Local Seed	LC1497 DGV2PRIB	116	-	-	16.6	0.7	54.9	26499
Local Seed	LC1577 VT2PRIB	119	253	186	18.4	0.7	56.8	27014
Local Seed	LC1307 TCRIB	120	-	-	17.4	0	56.7	27953
<b>Trial Mean</b>		<b>118</b>			<b>18.6</b>	<b>1.3</b>	<b>55.9</b>	<b>28649</b>
<b>Probability &gt; F</b>		<b>0.5987</b>			<b>&lt;0.0001</b>	<b>0.0021</b>	<b>0.7401</b>	<b>0.2577</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>0.6</b>	<b>3.2</b>	<b>NS<sup>5</sup></b>	<b>NS<sup>5</sup></b>
<b>CV%</b>		<b>9.2</b>			<b>5.7</b>	<b>213</b>	<b>3.6</b>	<b>9.2</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.



Table 23. Performance of early season maturity hybrids evaluated at Central Maryland Research and Education Center – Clarksville Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
<b>Mid-Atlantic<sup>4</sup></b>	<b>MAS 8034</b>	-	-	-	-	-	-	-
<b>Pioneer</b>	<b>P0075AM</b>	<b>120</b>	-	-	<b>17.9</b>	<b>2.3</b>	<b>50.6</b>	<b>25312</b>
Local Seed	LC0297 SXRIB	120	-	-	18.8	9.5	51.6	24706
Dekalb	DKC55-54RIB	127	-	-	18.3	3.5	52.3	29820
<b>Dekalb</b>	<b>DKC55-85RIB</b>	<b>130</b>	<b>238</b>	<b>184</b>	<b>17.7</b>	<b>6.6</b>	<b>51.9</b>	<b>29993</b>
Hubner	H05G716	139*	-	-	17.6	6.1	53.4	27740
Hubner	H4390RC2P	144*	233	188	19.2	6.5	51.9	27220
Seed Consultants	SCS 1071AM	146*	-	-	18.1	2.5	53.0	30167
Seed Consultants	SCS 1069AM	142*	-	-	18.2	5.0	52.5	31034
<b>Dekalb</b>	<b>DKC54-65</b>	<b>148*</b>	-	-	<b>17.9</b>	<b>2.5</b>	<b>52.3</b>	<b>30167</b>
<b>Pioneer</b>	<b>P0843AM</b>	<b>141*</b>	-	-	<b>18.4</b>	<b>2.7</b>	<b>49.9</b>	<b>30860</b>
Local Seed	LC0607 TRIB	145*	-	-	17.7	1.7	48.7	31207
Local Seed	LC0877 VT2PRIB	139*	-	-	18.0	2.5	54.0	27046
<b>Trial Mean</b>		<b>136</b>			<b>18.2</b>	<b>4.3</b>	<b>52.0</b>	<b>28704</b>
<b>Probability &gt; F</b>		<b>0.0404</b>			<b>0.0829</b>	<b>0.5723</b>	<b>0.6302</b>	<b>0.0097</b>
<b>LSD<sub>0.1</sub></b>		<b>16</b>			<b>0.9</b>	<b>NS<sup>5</sup></b>	<b>NS</b>	<b>3001</b>
<b>CV%</b>		<b>9.6</b>			<b>3.9</b>	<b>93</b>	<b>4.5</b>	<b>9.2</b>

<sup>1</sup>See Table 5 for trait designations for early season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

\*Hybrids with an asterisk next to yield are not statistically different (Probability > F ≤ 0.1) compared to the top yielding hybrid (highlighted in blue) at this location.

Table 24. Performance of mid-season maturity hybrids evaluated at Central Maryland Research and Education Center – Clarksville Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Local Seed	LC0999 VT2PRIB	159	-	-	19.1	1.8	51.3	28777
Dekalb	DKC59-82RIB	165	-	-	18.7	0	51.8	30167
Dekalb	DKC61-41RIB	158	-	-	19.0	0	48.5	29407
<b>Dekalb<sup>4</sup></b>	<b>DKC62-53RIB</b>	<b>149</b>	<b>223</b>	<b>186</b>	<b>18.7</b>	<b>0</b>	<b>50.9</b>	<b>30340</b>
Syngenta	NK1082-5222	159	-	-	20.6	0.6	57.8	29721
Syngenta	NK1239-5122	159	-	-	20.1	1.7	51.0	29647
Hubner	H09G056	152	-	-	18.4	2.4	51.7	28953
Hubner	H4321RC2P	158	-	-	18.8	0.6	49.0	26925
Hubner	H4692RC2P	149	220	184	19.1	0.5	50.8	30340
Seed Consultants	SCS 1111Q	144	-	-	18.8	0	50.4	28607
Seed Consultants	SCS 1121AM	155	-	-	19.9	0	52.6	29127
SeedKoz	MC 3952	147	-	-	19.1	0.7	52.3	29647
SeedKoz	MC 4255	144	-	-	18.8	0	47.6	28433
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>159</b>	-	-	<b>19.3</b>	<b>0</b>	<b>52.8</b>	<b>31034</b>
<b>Pioneer</b>	<b>P1197AM</b>	<b>147</b>	<b>260</b>	<b>217</b>	<b>18.9</b>	<b>0</b>	<b>54.7</b>	<b>29300</b>
Local Seed	LC0908 VT2PRIB	163	-	-	19.3	0.5	52.5	29127
Local Seed	LC1009 VT2PRIB	163	-	-	18.5	0	51.0	29647
Local Seed	LC1108 TCPRIB	158	-	-	20.8	0	50.6	28953
Local Seed	LC1207 TCRIB	151	-	-	19.0	0	48.5	27393
Local Seed	LC1289 VT2PRIB	136	231	183	19.9	0.8	51.6	29300
<b>Trial Mean</b>		<b>154</b>			<b>19.2</b>	<b>0.5</b>	<b>51.4</b>	<b>29242</b>
<b>Probability &gt; F</b>		<b>0.2649</b>			<b>&lt;0.0001</b>	<b>0.5871</b>	<b>0.4406</b>	<b>0.9714</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>0.5</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>
<b>CV%</b>		<b>8.0</b>			<b>4.0</b>	<b>273</b>	<b>11.7</b>	<b>7.9</b>

<sup>1</sup>See Table 7 for trait designations for mid-season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 25. Performance of full season maturity hybrids evaluated at Central Maryland Research and Education Center – Clarksville Facility in 2020.

Brand/Company	Hybrid Name <sup>1</sup>	Yield (bu/ac) <sup>2</sup>		2 yr Yield Avg	Moisture %	Lodging <sup>3</sup> %	Test Weight (lb/bu) <sup>2</sup>	Population (plants/ac)
		2020	2019					
Dekalb	DKC64-64RIB	154	-	-	20.1	1.1	52.7	29647
Dekalb	DKC63-91RIB	140	-	-	19.2	0.7	53.6	28342
Dekalb	DKC65-95RIB	136	240	188	20.4	0	54.3	29763
Dekalb	DKC65-99RIB	133	-	-	19.9	0.5	54.7	32941
Dekalb	DKC66-18RIB	137	255	196	20.8	0	54.1	29993
<b>Dekalb</b>	<b>DKC67-44RIB</b>	<b>152</b>	<b>270</b>	<b>211</b>	<b>20.4</b>	<b>0</b>	<b>56.8</b>	<b>28841</b>
Dekalb	DKC68-69RIB	128	-	-	20.9	0	55.3	30514
Dekalb	DKC69-99RIB	151	-	-	20.2	0	55.3	32074
Dekalb	DKC70-27RIB	138	254	196	21.0	0.6	49.9	29300
Syngenta	NK1573-5222	137	-	-	22.4	0.6	50.4	27913
Syngenta	NK1748-3110	137	-	-	20.6	0	52.1	27134
Hubner	H4663RC2P	122	252	187	20.8	1.3	51.6	26699
Hubner	H4744RC2P	139	185	162	20.6	0	53.3	24877
Hubner	H4763RC2P	139	-	-	20.0	0	54.3	28009
Hubner	H4828RC2P	146	-	-	20.6	0	53.3	30602
Hubner	H4846RC2P	144	223	183	20.0	0	56.0	29797
Dyna-Gro	D54VC34	148	-	-	20.6	0	55.6	28607
Dyna-Gro	D55VC80	142	256	199	20.4	1.1	53.5	31554
Seed Consultants	SCS 1141AM	140	-	-	21.6	0.5	55.8	29820
Seed Consultants	SCS 1158AM	128	-	-	19.9	0	52.2	27740
SeedKoz	MC 4319	125	-	-	20.4	1.1	54.6	31207
SeedKoz	MC 4670	131	-	-	19.6	5.7	55.0	29701
SeedKoz	MC 4725	126	-	-	21.0	0	54.6	29820
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	<b>129</b>	-	-	<b>19.1</b>	<b>0</b>	<b>53.1</b>	<b>29300</b>
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	<b>141</b>	-	-	<b>20.9</b>	<b>0</b>	<b>54.5</b>	<b>26526</b>
<b>Pioneer</b>	<b>P1415Q</b>	<b>126</b>	-	-	<b>19.9</b>	<b>0</b>	<b>55.1</b>	<b>27220</b>
Local Seed	LC1398 VT2PRIB	130	-	-	19.4	0	52.9	28780
Local Seed	LC1488 VT2PRIB	138	240	189	19.4	0	54.4	29473
Local Seed	LC1497 DGVT2PRIB	134	-	-	19.5	1.2	53.0	29482
Local Seed	LC1577 VT2PRIB	133	261	197	20.4	0.6	53.4	28521
Local Seed	LC1307 TCRIB	135	-	-	19.7	0.6	53.9	28433
<b>Trial Mean</b>		<b>137</b>			<b>20.3</b>	<b>0.5</b>	<b>53.9</b>	<b>29104</b>
<b>Probability &gt; F</b>		<b>0.8795</b>			<b>&lt;0.0001</b>	<b>0.6262</b>	<b>0.1022</b>	<b>0.1889</b>
<b>LSD<sub>0.1</sub></b>		<b>NS<sup>5</sup></b>			<b>0.7</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>
<b>CV%</b>		<b>11.9</b>			<b>4.0</b>	<b>382</b>	<b>4.5</b>	<b>9.3</b>

<sup>1</sup>See Table 7 for trait designations for full season hybrids.

<sup>2</sup>Yields and test weights are reported at 15% moisture content.

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

<sup>4</sup>Hybrids in **bold** are checks.

<sup>5</sup>NS indicates that no statistically significant difference was observed for this characteristic.

Table 26. Relative yield scores for early season hybrids evaluated in 2020. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Brand/Company	Hybrid Name <sup>1</sup>	Relative Yield					
		Avg. 5 sites	Wye	Poplar Hill	Salisbury	Clarksville	Keedysville
<b>Mid-Atlantic<sup>4</sup></b>	<b>MAS 8034</b>	88	<b>79</b>	93	84	-	89
<b>Pioneer</b>	<b>P0075AM</b>	96	<b>90</b>	98	108	88	95
Local Seed	LC0297 SSXRIB	96	91	95	105	89	95
Dekalb	DKC55-54RIB	<b>100</b>	105	<b>92</b>	<b>101</b>	<b>93</b>	<b>109</b>
<b>Dekalb</b>	<b>DKC55-85RIB</b>	99	<b>108</b>	92	104	96	96
Hubner	H05G716	98	98	99	94	102	101
<b>Hubner</b>	<b>H4390RC2P</b>	<b>111</b>	<b>117</b>	<b>117</b>	<b>116</b>	<b>106</b>	<b>99</b>
Seed Consultants	SCS 1071AM	105	111	103	103	107	103
Seed Consultants	SCS 1069AM	101	103	102	95	104	105
<b>Dekalb</b>	<b>DKC54-65</b>	95	<b>92</b>	89	95	109	95
<b>Pioneer</b>	<b>P0843AM</b>	<b>105</b>	<b>110</b>	<b>112</b>	<b>98</b>	<b>103</b>	<b>107</b>
Local Seed	LC0607 TCRIB	102	102	99	100	107	98
Local Seed	LC0877 VT2PRIB	98	93	102	98	102	103
<b>Trial Mean (bu/acre)</b>		<b>157</b>	<b>184</b>	<b>150</b>	<b>187</b>	<b>136</b>	<b>123</b>

<sup>1</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board

Hybrids highlighted in **green** have relative yield ratings of 100 or greater at all sites

Hybrid highlighted in **yellow** have relative yield ratings of 100 or greater at four testing sites

Table 27. Relative yield scores for mid-season hybrids evaluated in 2020. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Brand/Company	Hybrid Name <sup>1</sup>	Relative Yield					
		Avg. 5 sites	Wye	Poplar Hill	Salisbury	Clarksville	Keedysville
Local Seed	LC0999 VT2PRIB	100	102	92	103	103	94
Dekalb	DKC59-82RIB	108	107	110	109	107	104
Dekalb	DKC61-41RIB	104	108	111	106	102	101
<b>Dekalb<sup>4</sup></b>	<b>DKC62-53RIB</b>	<b>100</b>	<b>98</b>	<b>91</b>	<b>109</b>	<b>97</b>	<b>100</b>
Syngenta	NK1082-5222	100	96	95	103	103	99
Syngenta	NK1239-5122	94	93	94	93	103	95
Hubner	H09G056	102	104	96	108	99	102
Hubner	H4321RC2P	103	105	100	101	102	104
Hubner	H4692RC2P	96	98	90	97	96	96
Seed Consultants	SCS 1111Q	98	97	105	90	94	105
Seed Consultants	SCS 1121AM	95	91	93	97	101	102
SeedKoz	MC 3952	100	96	117	99	95	100
SeedKoz	MC 4255	99	102	102	98	94	99
<b>Mid-Atlantic</b>	<b>MAS 8091</b>	<b>100</b>	<b>99</b>	<b>94</b>	<b>98</b>	<b>103</b>	<b>88</b>
<b>Pioneer</b>	<b>P1197AM</b>	<b>96</b>	<b>96</b>	<b>96</b>	<b>89</b>	<b>95</b>	<b>107</b>
Local Seed	LC0908 VT2PRIB	<b>104</b>	102	106	100	106	107
Local Seed	LC1009 VT2PRIB	<b>100</b>	103	94	101	106	95
Local Seed	LC1108 TCPRIB	<b>99</b>	105	98	94	102	98
Local Seed	LC1207 TCRIB	<b>105</b>	105	113	103	98	104
Local Seed	LC1289 VT2PRIB	<b>98</b>	98	105	101	88	97
<b>Trial Mean (bu/acre)</b>		<b>167</b>	<b>204</b>	<b>162</b>	<b>194</b>	<b>154</b>	<b>123</b>

<sup>1</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board

Hybrids highlighted in **green** have relative yield ratings of 100 or greater at all sites

Hybrid highlighted in **yellow** have relative yield ratings of 100 or greater at four testing sites

Table 28. Relative yield scores for full season hybrids evaluated in 2020. Hybrids with scores 100 or greater at four or more locations are considered to have good stability.

Brand/Company	Hybrid Name <sup>1</sup>	Relative Yield					
		Avg. 5 sites	Wye	Poplar Hill	Salisbury	Clarksville	Keedysville
Dekalb	DKC64-64RIB	102	107	90	97	113	106
Dekalb	DKC63-91RIB	102	93	97	108	102	111
Dekalb	DKC65-95RIB	99	93	96	105	100	103
Dekalb	DKC65-99RIB	<b>102</b>	104	103	99	97	97
Dekalb	DKC66-18RIB	103	101	108	103	100	98
<b>Dekalb</b>	<b>DKC67-44RIB</b>	104	<b>106</b>	<b>107</b>	<b>100</b>	<b>111</b>	<b>97</b>
Dekalb	DKC68-69RIB	101	108	102	102	93	101
Dekalb	DKC69-99RIB	105	108	103	102	110	95
Dekalb	DKC70-27RIB	104	102	101	104	100	111
Syngenta	NK1573-5222	95	89	99	94	100	95
Syngenta	NK1748-3110	97	95	103	90	100	98
Hubner	H4663RC2P	97	102	90	97	89	109
Hubner	H4744RC2P	105	101	102	109	102	109
Hubner	H4763RC2P	102	98	113	99	101	100
Hubner	H4828RC2P	100	97	98	99	107	97
Hubner	H4846RC2P	102	102	106	101	105	94
Dyna-Gro	D54VC34	104	109	104	100	108	94
Dyna-Gro	D55VC80	104	103	107	106	103	99
Seed Consultants	SCS 1141AM	95	91	91	96	102	99
Seed Consultants	SCS 1158AM	101	116	95	100	93	96
SeedKoz	MC 4319	99	102	103	99	91	93
SeedKoz	MC 4670	100	95	103	102	95	102
SeedKoz	MC 4725	96	99	95	95	92	95
<b>Mid-Atlantic</b>	<b>MAS 8128</b>	97	<b>93</b>	<b>102</b>	<b>100</b>	<b>94</b>	<b>97</b>
<b>Mid-Atlantic</b>	<b>MAS 8163</b>	104	<b>108</b>	<b>108</b>	<b>101</b>	<b>103</b>	<b>97</b>
<b>Pioneer</b>	<b>P1415Q</b>	91	<b>89</b>	<b>91</b>	<b>90</b>	<b>92</b>	<b>95</b>
Local Seed	LC1398 VT2PRIB	95	94	92	95	95	102
Local Seed	LC1488 VT2PRIB	103	102	103	102	101	105
Local Seed	LC1497 DGVT2PRIB	91	91	74	97	98	99
Local Seed	LC1577 VT2PRIB	104	107	107	105	97	101
Local Seed	LC1307 TCRIB	101	102	98	103	98	102
<b>Trial Mean (bu/acre)</b>		<b>166</b>	<b>203</b>	<b>179</b>	<b>195</b>	<b>137</b>	<b>118</b>

<sup>1</sup>Hybrids in **bold** are checks included with funding from Maryland Grain Producers Utilization Board

Hybrids highlighted in **green** have relative yield ratings of 100 or greater at all sites

Hybrid highlighted in **yellow** have relative yield ratings of 100 or greater at four testing sites