



VIRGINIA CORN HYBRID AND MANAGEMENT TRIALS IN 2018

Coordinators of Virginia Corn Hybrid Trials in 2018

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Companies Participating in the 2018 Corn Hybrid Trials

Company	Brand	Address
Augusta Seed	Augusta Seed	PO Box 899, Verona, VA 24482
Crop Production Services	Dyna-Gro	396 Washington Street, Boydton, VA 23917
Doebler's PA Hybrids, Inc.	Doebler's	1000 Commerce Park Dr. Suite 106, Williamsport, PA 17701
DowDupont	Pioneer	425 Abbeydale Way, Columbia, SC 29229
Erwin-Keith, Inc.	Progeny Ag Products	1529 Hwy 193, Wynne, AR 72396
Mid-Atlantic Seeds	Mid-Atlantic	204 St. Charles Way #163E, York, PA 17402
Monsanto	Channel, DEKALB, Hubner	800 N Lindbergh Blvd., St Louis, MO 63167
Seed Consultants, Inc.	Seed Consultants	648 Miami Trace Rd, Washington Court House, OH 43160
SeedKoz	MorCorn and Phoenix	1725 Windward Concourse Suite 410, Alpharetta, GA 30005
Syngenta	NK Brand	4013 Fairmount Pike, Signal Mountain, TN 37377
Tidewater Seed LLC	AXIS	29000 Information Lane Suite 302, Easton, MD 21601

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Background Information

Performance trials of commercial corn hybrids were conducted at six locations in Virginia in 2018. The Mt. Holly location consisted of both an irrigated and non-irrigated test. All locations were planted with a Wintersteiger PlotKing 2600. All locations were harvested with a Massey-Ferguson 8XP plot combine. Yields have been adjusted to 15.5% moisture. Grain test weight, moisture, and plot grain weights were measured with a GrainGauge® manufactured by HarvestMaster. A list of companies participating in the trials is provided before the table of contents. All hybrids entered in the Virginia trials are those submitted by commercial companies. The locations at which particular hybrids were entered were specified by the company. Companies entering hybrids were charged a fee for each hybrid per location to support the Virginia Corn Hybrid and Management Trials.

Yield Differences

Experimental plots vary in yield and other measurements due to location in the field and other factors which cannot be controlled. Statistics given in the tables are intended to help the reader make valid comparisons between hybrids. The magnitude of differences which may have been due to uncontrollable variation has been computed for the data and listed at the bottom of columns as the LSD (.05) (least significant difference with 95% confidence). Differences less than the LSD are assumed not to be real differences with 95% confidence.

Understanding Relative Yield

Companies entering hybrids decide which hybrids are planted at which locations. Combining and comparing absolute yield and other results from multiple sites is inappropriate when not all hybrids are planted at all locations. For example, one hybrid might have an unfair advantage in such a comparison because it was tested only at sites with ideal growing conditions. Another hybrid tested at sites with less-than-ideal growing conditions would have yields that tended to be lower. In this example, it would be difficult to determine whether yield differences were because of differences in genetic yield potential or simply because of differences in the environmental conditions under which they were tested. The solution is to compare hybrids based on relative yields rather than absolute yields.

To calculate relative yield, the yield for each hybrid at each site is divided by the average yield for all hybrids tested at that same site and multiplied by 100. Once each hybrid at each site has been assigned a relative yield, comparisons can be made between hybrids tested at the same site or different sites. For hybrids tested at multiple sites, we can also calculate a multi-site relative yield average.

Relative yields of 100 indicate hybrids that were average performers. Relative yields greater than 100 indicate yields above-average. Relative yields less than 100 indicate yields below-average. The magnitude of the relative yield numbers indicate how far above or below average a hybrid performed. For example, a hybrid with a relative yield of 110 yielded 10% of above the average yield for all hybrids at that site.

Choice of Hybrids

When making hybrid selections it is important to realize that hybrids differ in their performance in different environments. Some hybrids are more adapted to a wide range of environments. Hybrid performance may vary with year and location variations in rainfall, temperature, pests and other environmental variables. In these experiments, many hybrids have essentially the same yield, and great care should be taken in interpreting the results of a single year's tests, especially at only one location. For these reasons it is important, whenever possible, to also look at a hybrid's average across locations when making hybrid selections. Multi-year averages give even greater confidence to hybrid performance decisions. The relative yield tables compare the yield of a hybrid to the average yield of all hybrids in the test. These tables are an excellent summary of yield potential compared to other hybrids.

2018 Virginia Corn Hybrid Plot Information

(Rates are on a per acre basis.)

Blacksburg Whitethorne Farm

Planted: May 11, 2018 no-till into killed cereal cover
Harvested: October 23-24, 2018
Population: 25,285 plants/acre
Pesticide: 2 qt glyphosate; 1 pt atrazine 4L + 3 qt Acuron®; 5 lb Force® 3G at planting
Fertilizer: 40-20-40 pre-plant incorporated; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 160 lb N as UAN side-dressed May 30, 2018
Plot Size: 2 rows 25' x 30" 4 replications
Previous crop: Corn
Soil Type: Hayter loam
Cooperator: Brooks Saville, Jon Wooge

Blackstone Southern Piedmont Agricultural Research & Extension Center

Planted: April 20, 2018 conventional tillage
Harvested: September 6, 2018
Population: 25,185 plants/acre
Pesticide: 2 qt Brawl II ATZ™ April 23, 2018
Fertilizer: 1000 lb 10-10-10 pre-plant incorporated April 10, 2018; 80 lb N top-dressed using UAN May 23, 2018
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Appling and Durham sandy loam
Cooperator: Ned Jones

Holland Tidewater Agricultural Research & Extension Center

Planted: April 19, 2018 no-till after peanuts
Harvested: August 29-30, 2018
Pesticide: 1 qt Roundup® March 29, 2018; 4 pt Bicep® + 2 pt simazine April 18, 2018;
Fertilizer: 347 lb 14-8-17 April 10, 2018; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 120 lb N + 15 lb S as 24-0-0-3 side-dressed May 22, 2018
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Emporia, Nansemond
Previous crop: Peanuts
Cooperator: Karl Jones

Mt Holly (dryland) Virginia Crop Improvement Association Foundation Seed Farm

Planted: April 30, 2018 no-till into soybean stubble
Harvested: September 19, 2018
Population: 25,825 plants/acre
Pesticide: 3 qt Acuron® + 1 pt atrazine + 1 qt Princep® pre-plant; 5 lb Force® 3G at planting; 8 oz dicamba post-plant
Fertilizer: 60-50-60 pre-plant incorporated; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 40 gpa 24-0-0-3 side-dressed
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Nansemond, Lumbee, State
Previous crop: Soybeans
Cooperator: Phillip Browning

Mt Holly (irrigated) Virginia Crop Improvement Association Foundation Seed Farm

Planted: April 30 – May 1, 2018 no-till into soybean stubble
Harvested: September 20-21, 2018
Population: 29,815 plants/acre
Pesticide: 3 qt Acuron® + 1 pt atrazine + 1 qt Princep® pre-plant; 5 lb Force® 3G at planting; 8 oz dicamba post-plant
Fertilizer: 60-50-60 pre-plant incorporated; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 40 gpa 24-0-0-3 side-dressed
Irrigation: none; site received 35.61" rain over the growing season: April=3.41", May=13.18", June=5.47", July=4.71", August=3.42", September=5.42"
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: State fine sandy loam
Previous crop: Soybeans
Cooperator: Phillip Browning

Orange Northern Piedmont Center

Planted: May 8, 2018 no-till into soybean stubble
Harvested: October 4, 2018
Population: 27,630 plants/acre
Pesticide: 3 qt Acuron® + 1 pt 2, 4-D + 1 qt glyphosate April 23, 2018; 5 lb Force® 3G at planting; 1.3 oz Primo® June 20, 2018
Fertilizer: 39-100-80 May 7, 2018; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 100 lb N as UAN side-dressed June 13, 2018
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Starr silt loam
Previous crop: Soybeans
Cooperators: Steve Gulick, Brad Lael

Shenandoah Valley (Thanks to Mark Deavers)

Planted: May 2, 2018 no-till into killed cover
Harvested: October 18, 2018
Population: 25,600 plants/acre
Pesticide: 1.125 qt Acuron® Flexi + 1.5 qt AAtrex® + 1.5 qt Princep® + 1.92 oz Kendo™ + 1.5 qt Gly Star® Plus pre-plant; 5 lb Force® 3G at planting
Fertilizer: 4 tons poultry litter + 20 lb S pre-plant; 17 gal 15-15-0-2S-.13B-.25Zn at planting
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Edom silty clay loam
Previous crop: Soybeans
Cooperators: Doug Horn and Mark Deavers

2018 STATE GRAIN TRIALS

Table 1. List of hybrids in the 2018 Virginia Corn Hybrid & Management Trials

Brand	Hybrid	DTM per Co.¹	Insecticide	Genetics
Augusta	A4858	107	CruiserMaxx® 250	Agrisure 3010
Augusta	A4959	109	CruiserMaxx® 250	Agrisure Viptera 3110
Augusta	A4860	110	CruiserMaxx® 250	Agrisure Viptera 3220 EZ Refuge
Augusta	A4463	113	CruiserMaxx® 250	VT Double PRO
Augusta	A1564	114	CruiserMaxx® 250	Agrisure 3000GT
Augusta	A1165	115	CruiserMaxx® 250	VT Double PRO
Augusta	A5065	115	CruiserMaxx® 250	Agrisure Viptera 3111
Augusta	A4465	115	CruiserMaxx® 250	Agrisure Viptera 3110
AXIS	60P29RIB	109	Poncho® 250	VT Double PRO RIB Complete
AXIS	62A28RIB	112	Poncho® 250	VT Double PRO RIB Complete
AXIS	64K24RIB	114	Poncho® 250	VT Double PRO RIB Complete
AXIS	64D25RIB	114	Poncho® 250	VT Double PRO RIB Complete
AXIS	66A22RIB	116	Poncho® 250	VT Double PRO RIB Complete
AXIS	66R25RIB	116	Poncho® 250	VT Double PRO RIB Complete
Channel	205-63VT2PRIB	105	Poncho® 250	VT Double PRO RIB Complete
Channel	206-11VT2PRIB	106	Poncho® 250	VT Double PRO RIB Complete
Channel	209-15VT2PRIB	109	Poncho® 250	VT Double PRO RIB Complete
Channel	210-79VT2PRIB	110	Poncho® 250	VT Double PRO RIB Complete
Channel	212-20VT2PRIB	112	Poncho® 250	VT Double PRO RIB Complete
Channel	213-19VT2PRIB	113	Poncho® 250	VT Double PRO RIB Complete
Channel	215-75VT2PRIB	115	Poncho® 250	VT Double PRO RIB Complete
Channel	215-60TRERIB	115	Poncho® 250	Trecepta RIB Complete
Channel	216-36DGV2PRIB	116	Poncho® 250	VT Double PRO RIB Complete
DEKALB	DKC62-20RIB	112	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC62-53RIB	112	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC64-35RIB	114	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC65-20RIB	115	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC65-95RIB	115	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC66-75RIB	116	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC67-44RIB	117	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC68-69RIB	118	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC69-16RIB	119	Acceleron® 500	SmartStax RIB Complete

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Brand	Hybrid	DTM per Co.¹	Insecticide	Genetics
DEKALB	DKC70-27RIB	120	Acceleron® 250	VT Double PRO RIB Complete
Doebler's	RPM® 4417AMXT™	104	CruiserMaxx® 250 + Raxil	AcreMax XTreme
Doebler's	RPM® 4917AM™	109	CruiserMaxx® 250 + Raxil	AcreMax
Doebler's	RPM® 4919AM™	109	CruiserMaxx® 250 + Lumivia	AcreMax
Doebler's	RPM® 5018AMXT™	110	CruiserMaxx® 250 + Lumivia	AcreMax XTreme
Doebler's	RPM® 5319AM™	113	CruiserMaxx® 250 + Lumivia	AcreMax
Doebler's	RPM® 5518AMXT™	115	CruiserMaxx® 250 + Lumivia	AcreMax XTreme
Doebler's	RPM® 5719AM™	117	CruiserMaxx® 250 + Lumivia	AcreMax
Doebler's	RPM® 5818AM™	118	CruiserMaxx® 250 + Lumivia	AcreMax
Dyna-Gro	D50VC30	110	Poncho® 250	VT Double PRO
Dyna-Gro	D52VC63	112	Poncho® 250	VT Double PRO
Dyna-Gro	D55VC45	115	Poncho® 250	VT Double PRO
Dyna-Gro	D58VC65	118	Poncho® 250	VT Double PRO
Hubner Seed	H4563RC2P	111	Acceleron® 500/Poncho® 500/VOTiVO®500	VT Double PRO RIB Complete
Hubner Seed	H4663RC2P	113	Acceleron® 500/Poncho® 500/VOTiVO®500	VT Double PRO RIB Complete
Hubner Seed	H6867RCSS	116	Acceleron® 500/Poncho® 500/VOTiVO®500	SmartStax RIB Complete
Hubner Seed	H4890RC2P	117	Acceleron® 500/Poncho® 500/VOTiVO®500	VT Double PRO RIB Complete
Mid-Atlantic	MA8034	103	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8063	106	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8092	107	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8091	107	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8074	107	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8099	107	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8107	110	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8132	113	Acceleron® 250	VT Double PRO
Mid-Atlantic	MA8163	115	Acceleron® 250	VT Double PRO
MorCorn	MC 4319	113	Poncho® 1250	VT Double PRO
MorCorn	MC 4457	114	Poncho® 1250	VT Double PRO
MorCorn	MC 4725	117	Poncho® 1250	VT Double PRO
NK	N0968-3110	109	Avicta® Complete 500 + Vibrance	Agrisure Viptera 3110
NK	NK1573-3110	115	Avicta® Complete 500 + Vibrance	Agrisure Viptera 3110
NK	NK1808-3111	118	Avicta® Complete 500 + Vibrance	Agrisure Viptera 3111

2018 STATE GRAIN TRIALS

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Brand	Hybrid	DTM per Co.¹	Insecticide	Genetics
Phoenix	6507 A3	115	Avicta® Complete 500	Agrisure 3000GT
Phoenix	7402 A4	118	Avicta® Complete 500	Agrisure Vipitera 3111
Pioneer	P0339AM	103	Poncho® 1250/VOTiVO®	AcreMax
Pioneer	P1197AM	111	Poncho® 1250/VOTiVO®	AcreMax
Pioneer	P1637AM	116	Poncho® 1250/VOTiVO®	AcreMax
Progeny	PGY 6110VT2P	110	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY 7111VT2P	111	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY 4114V2P	114	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY EXP1814	114	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY 5115VT2P	115	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY 8116SS	115	Poncho® 500/VOTiVO® EDC	SmartStax
Progeny	PGY 6116VT2P	116	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY EXP1817	117	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY 7118VT2P	118	Poncho® 500/VOTiVO® EDC	VT Double PRO
Progeny	PGY 6119VT2P	119	Poncho® 500/VOTiVO® EDC	VT Double PRO
Seed Consultants	SCS 1087YHR™	108	CruiserMaxx® 250	Intrasect
Seed Consultants	SC 11AQ17™	111	CruiserMaxx® 250	Agrisure 3000GT
Seed Consultants	SC 11AQ15™	113	CruiserMaxx® 250	Agrisure 3000GT
Seed Consultants	SCS EXP114YHR™	114	CruiserMaxx® 250	Intrasect
Seed Consultants	SCS 1158YHR™	115	CruiserMaxx® 250	Intrasect
Seed Consultants	SCS 1168YHR™	116	CruiserMaxx® 250	Intrasect
Seed Consultants	SC 11AQ74™	117	CruiserMaxx® 250	Agrisure 3000GT

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

Hybrids are arranged by Company, then days to maturity.

The Handy Bt Trait Table

for U.S. Corn Production

Updated
15 March 2017

Posted at www.msuent.com

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Contributors: Pat Porter, Texas A&M University & Kelley Tilmon, The Ohio State University

Most corn hybrids planted in the U.S. contain one or more transgenic traits for weed or insect management. These traits can increase flexibility and profitability for producers, but sometimes cause confusion about their spectrum of control or refuge requirements. The Handy Bt Trait Table provides a helpful list of trait names (below) and details of trait packages (next page) to make it easier to read company seed guides, sales materials, and bag tags. Note that there are two versions of the table (north/Midwest vs. south/cotton belt) which differ only in refuge percentages.

Important clarifications or changes to the Trait Table for 2017

- ✓ An insect is listed in the CONTROL SPECTRUM column if seed providers claim protection or efficacy for a given Bt package; insect species which are 'suppressed' are no longer listed. Actual field-level performance of hybrids on lepidopteran and rootworm larvae may differ if there are local or regional insect populations which are less susceptible or resistant to Bt proteins.
- ✓ To address local or regional performance issues, a new column ('May be ineffective on') was added to highlight insect x Bt toxins with documented field-failures, confirmed resistance, or cross-resistance. An insect is listed in this column only if ALL of the Bt proteins which should control it in a product are 'ineffective' somewhere in the US or Canada. Ineffective ratings are based on published lab assays &/or field research from field corn, sweet corn, and cotton. University extension specialists or local educators can assist in determining if you are in an area where reduced effectiveness was reported. On a broader scale, this column is intended to alert growers and consultants to potential management problems, influence seed selection, and encourage field scouting.
- ✓ The refuge column was simplified to include only the % and an indication if the refuge is in the bag.

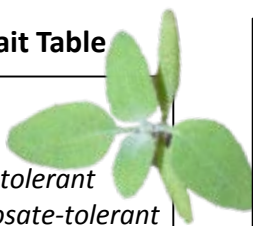
Field corn 'events' (transformations of one or more genes) and their Trade Names

Trade name for trait	Event	Protein(s) expressed	Insect Target or Herbicide Activity
Agrisure CB/LL	Bt11	Cry1Ab + PAT	corn borer + <i>glufosinate tolerance</i>
Agrisure Duracade	5307	eCry3.1Ab	rootworm
Agrisure GT	GA21	EPSPS	<i>glyphosate tolerance</i>
Agrisure RW	MIR604	mCry3A	rootworm
Agrisure Viptera	MIR162	Vip3A	broad lep control (but not corn borer)
Herculex 1 or CB	TC1507	Cry1Fa2 + PAT	corn borer + <i>glufosinate tolerance</i>
Herculex RW	DAS-59122-7	Cry34Ab1/Cry35Ab1 + PAT	rootworm + <i>glufosinate tolerance</i>
Roundup Ready 2	NK603	EPSPS	<i>glyphosate tolerance</i>
Yieldgard Corn Borer	MON810	Cry1Ab	corn borer
Yieldgard Rootworm	MON863	Cry3Bb1	rootworm
Yieldgard VT Pro	MON89034	Cry1A.105 + Cry2Ab2	broader lep control
Yieldgard VT Rootworm RR	MON88017	Cry3Bb1 + EPSPS	rootworm + <i>glyphosate tolerance</i>

Abbreviations used in the Trait Table

Herbicide activity

GT *glyphosate tolerant*
 LL Liberty Link - *glufosinate-tolerant*
 RR2 Roundup Ready 2, *glyphosate-tolerant*



Insect targets

BCW black cutworm	SB stalk borer
CEW corn earworm	SCB sugarcane borer
ECB ₆ European corn borer	SWCB southwestern corn borer
FAW fall armyworm	TAW true armyworm
RW corn rootworm	WBC western bean cutworm



TRAIT FAMILY		CONTROL SPECTRUM		May be locally	Herbicide	
Specific Product	Bt protein(s)	Marketed for control of:		or regionally	tolerance	Refuge %
AGRISURE		above-ground-----in soil		ineffective on:		
Agrisure 3010, 3010A	Cry1Ab	ECB SCB SWCB	---		GT LL	20%
Agrisure 3000GT, 3011A	Cry1Ab mCry3A	ECB SCB SWCB	RW	RW	GT LL	20%
Agrisure Viptera 3110	Cry1Ab Vip3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC	---		GT LL	20%
Agrisure Viptera 3111	Cry1Ab Vip3A mCry3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC	RW	RW	GT LL	20%
Agrisure 3120 E-Z Refuge	Cry1Ab Cry1F	BCW ECB FAW SB SCB SWCB WBC	---	FAW, WBC	REFER TO BAG TAG for specific letter code: EZ0 hybrids = GT only EZ1 hybrids = GT LL	5% in bag
Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, WBC RW		5% in bag
Agrisure Viptera 3220 E-Z Refuge	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC	---			5% in bag
Agrisure Duracade 5122 E-Z Refuge	Cry1Ab Cry1F mCry3A eCry3.1Ab	BCW ECB FAW SB SWCB WBC	RW	FAW, WBC RW		5% in bag
Agrisure Duracade 5222 E-Z Refuge	Cry1Ab Cry1F Vip3A mCry3A eCry3.1Ab	BCW CEW ECB FAW SB SCB SWCB TAW WBC	RW	RW		5% in bag
HERCULEX						
Herculex 1 (HX1)	Cry1F	BCW ECB FAW SB SCB SWCB WBC	---	FAW, SWCB, WBC	LL RR2 (most)	20%
Herculex RW (HXRW)	Cry34/35Ab1	---	RW	RW		20%
Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, SWCB, WBC RW		20%
OPTIMUM						
Intrasect (YHR)	Cry1Ab Cry1F	BCW ECB FAW SB SCB SWCB WBC	---	FAW, WBC	LL RR2	5%
AcreMax (AM)	Cry1Ab Cry1F	BCW ECB FAW SB SCB SWCB WBC	---	FAW, WBC	LL RR2	5% in bag
Leptra (VYHR) ^a AcreMax Leptra (AML) ^b	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC	---		LL RR2	^a 5% ½ mile ^b 5% in bag
AcreMax RW (AMRW)	Cry34/35Ab1	---	RW	RW	LL RR2	10% in bag
AcreMax1 (AM1)	Cry1F Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, SWCB, WBC RW	LL RR2	10% in bag 20% ECB
TRIssect (CHR)	Cry1F mCry3A	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, SWCB, WBC RW	LL RR2	20%
Intrasect TRIssect (CYHR) ^a AcreMax TRIssect (AMT) ^b	Cry1Ab Cry1F mCry3A	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, WBC RW	LL RR2	^a 20% ^b 10% in bag
Intrasect Xtra (YXR) ^a AcreMax Xtra (AMX) ^b	Cry1Ab Cry1F Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, WBC RW	LL RR2	^a 20% ^b 10% in bag
Intrasect Xtreme (CYXR) ^a AcreMax Xtreme (AMXT) ^b	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, WBC RW	LL RR2	^a 5% ^b 5% in bag
YIELDGARD or GENUITY						
YieldGard CB (YGCB)	Cry1Ab	ECB SCB SWCB	---	SCB	RR2	20%
YieldGard VT Rootworm	Cry3Bb1	---	RW	RW	RR2	20%
YieldGard VT Triple	Cry1Ab Cry3Bb1	ECB SCB SWCB	RW	SCB RW	RR2	20%
Genuity VT Double PRO ^a or RIB complete ^b	Cry1A.105 Cry2Ab2	CEW ECB FAW SB SCB SWCB	---	CEW	RR2	^a 5% ^b 5% in bag
Genuity VT Triple PRO ^a or RIB complete ^b	Cry1A.105 Cry2Ab2 Cry3Bb1	CEW ECB FAW SB SCB SWCB	RW	CEW RW	RR2	^a 20% ^b 10% in bag
Genuity SmartStax ^a or RIB Complete ^b	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW SB SCB SWCB WBC	RW	CEW, WBC RW	LL RR2	^a 5% ^b 5% in bag
OTHER						
Powercore ^a Powercore Refuge Adv. ^b	Cry1A.105 Cry2Ab2 Cry1F	BCW CEW ECB FAW SB SCB SWCB WBC	---	CEW, WBC	LL RR2	^a 5% ^b 5% in bag
Smartstax ^a Smartstax Refuge Adv. ^b	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW SB SCB 7SWCB WBC	RW	CEW, WBC RW	LL RR2	^a 5% ^b 5% in bag
Qrome	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC	RW	FAW, WBC RW	LL RR2	5% in bag

Table 2. 2018 RELATIVE YIELD* of corn hybrids entered in three or more locations - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Holland	Black- stone	Mt Holly Dryland	Mt Holly Irrigated	Black- burg	Orange	Shenan- doah	Mean
<108 Days Relative Maturity										
Mid-Atlantic	MA8091	107	---	89	114	106	129	113	100	109
Augusta	A4858	107	116	---	108	113	---	82	95	103
Mid-Atlantic	MA8099	107	---	97	114	94	85	111	97	100
Mid-Atlantic	MA8074	107	---	97	113	108	77	104	88	98
Doebler's	RPM® 4417AMXT™	104	80	87	81	98	---	115	115	96
Mid-Atlantic	MA8092	107	---	92	89	108	70	93	117	95
Mid-Atlantic	MA8034	103	---	117	95	100	54	84	103	92
Channel	205-63VT2PRIB	105	---	---	99	89	---	76	---	88
Channel	206-11VT2PRIB	106	---	---	96	96	---	69	---	87
Pioneer	P0339AM	103	86	93	95	93	57	73	91	84
Mid-Atlantic	MA8063	106	---	86	102	78	70	85	73	82
108-111 Days Relative Maturity										
Channel	209-15VT2PRIB	109	---	101	106	112	---	95	103	103
Channel	210-79VT2PRIB	110	---	88	110	107	---	91	93	98
Hubner Seed	H4563RC2P	111	95	129	118	97	81	68	96	98
Augusta	A4860	110	---	---	102	90	---	98	---	97
Seed Consultants	SCS 1087YHR™	108	102	96	92	101	118	62	98	96
AXIS	60P29RIB	109	95	93	97	104	---	77	99	94
Doebler's	RPM® 5018AMXT™	110	99	115	104	94	97	63	84	94
Seed Consultants	SC 11AQ17™	111	97	99	84	87	98	76	100	92
Pioneer	P1197AM	111	90	98	84	85	93	76	99	89
Progeny	PGY 7111VT2P	111	101	95	95	113	72	57	88	89
Dyna-Gro	D50VC30	110	---	---	116	85	---	54	97	88
Doebler's	RPM® 4919AM™	109	99	88	93	99	89	60	84	88
NK	N0968-3110	109	---	---	---	---	91	81	84	85
Mid-Atlantic	MA8107	110	---	90	81	92	57	76	111	84
Doebler's	RPM® 4917AM™	109	92	87	75	102	84	59	84	83
Augusta	A4959	109	---	---	109	88	---	46	88	83
Progeny	PGY 6110VT2P	110	91	79	76	84	66	60	89	78
112-115 Days Relative Maturity										

Table 2. 2018 RELATIVE YIELD* of corn hybrids entered in three or more locations - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Holland	Black- stone	Mt Holly Dryland	Mt Holly Irrigated	Black- burg	Orange	Shenan- doah	Mean
Channel	215-75VT2PRIB	115	---	105	---	---	---	143	117	122
Mid-Atlantic	MA8163	115	---	127	103	110	134	134	103	119
Channel	213-19VT2PRIB	113	---	112	112	115	---	130	116	117
Channel	215-60TRERIB	115	---	113	---	---	---	115	114	114
Progeny	PGY 8116SS	115	110	122	89	106	144	114	107	113
DEKALB	DKC65-95RIB	115	99	112	116	104	102	129	126	113
Progeny	PGY 4114V2P	114	110	95	97	122	98	138	126	112
MorCorn	MC 4319	113	114	109	116	104	---	---	---	111
DEKALB	DKC65-20RIB	115	115	110	119	92	110	104	118	110
Doebler's	RPM® 5319AM™	113	93	107	102	108	109	131	112	109
Seed Consultants	SCS EXP114YHR™	114	97	102	97	100	80	143	133	107
AXIS	62A28RIB	112	115	91	107	107	111	107	106	106
DEKALB	DKC62-53RIB	112	96	109	115	116	83	108	116	106
Mid-Atlantic	MA8132	113	---	99	121	102	102	120	94	106
Phoenix	6507 A3	115	91	106	106	118	---	---	---	105
DEKALB	DKC64-35RIB	114	101	105	111	103	127	85	104	105
AXIS	64D25RIB	114	118	103	112	92	127	82	97	104
Hubner Seed	H4663RC2P	113	86	102	100	114	95	119	113	104
Dyna-Gro	D52VC63	112	106	112	119	98	101	95	97	104
Seed Consultants	SCS 1158YHR™	115	90	72	112	97	111	123	118	103
DEKALB	DKC62-20RIB	112	109	110	113	98	74	108	107	103
Doebler's	RPM® 5518AMXT™	115	83	104	91	111	108	118	103	102
Progeny	PGY 5115VT2P	115	78	95	96	99	89	125	132	102
Channel	212-20VT2PRIB	112	---	86	87	101	---	109	125	101
MorCorn	MC 4457	114	100	108	90	105	---	---	---	101
NK	NK1573-3110	115	114	---	104	89	82	---	113	100
Augusta	A1165	115	105	---	---	---	94	95	103	99
Augusta	A4463	113	---	---	103	113	---	81	99	99
AXIS	64K24RIB	114	95	102	92	104	93	102	103	99
Seed Consultants	SC 11AQ15™	113	80	89	84	110	88	119	122	99
Augusta	A1564	114	90	---	95	111	---	---	---	99

Table 2. 2018 RELATIVE YIELD* of corn hybrids entered in three or more locations - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Holland	Black-stone	Mt Holly Dryland	Mt Holly Irrigated	Black-burg	Orange	Shenan-doah	Mean
Dyna-Gro	D55VC45	115	87	---	105	99	---	---	---	97
Progeny	PGY EXP1814	114	104	89	80	103	94	101	99	96
Augusta	A4465	115	100	---	86	100	---	80	---	92
>115 Days Relative Maturity										
DEKALB	DKC70-27RIB	120	114	112	93	97	141	160	99	117
DEKALB	DKC68-69RIB	118	134	86	95	105	136	148	100	115
Hubner Seed	H4890RC2P	117	96	106	112	109	134	128	106	113
DEKALB	DKC69-16RIB	119	108	100	106	94	126	136	110	111
AXIS	66A22RIB	116	90	101	101	100	109	143	115	109
Progeny	PGY EXP1817	117	104	103	113	87	127	114	106	108
DEKALB	DKC67-44RIB	117	123	110	103	107	127	85	90	106
DEKALB	DKC66-75RIB	116	97	104	106	90	108	143	85	105
AXIS	66R25RIB	116	110	112	107	90	128	91	86	103
Progeny	PGY 6119VT2P	119	98	100	115	108	111	88	100	103
Hubner Seed	H6867RCSS	116	104	107	106	103	112	73	110	102
Doebler's	RPM® 5818AM™	118	114	101	94	84	93	143	85	102
Dyna-Gro	D58VC65	118	96	---	90	98	118	---	---	101
Progeny	PGY 6116VT2P	116	108	91	83	114	115	111	82	101
Seed Consultants	SCS 1168YHR™	116	115	92	101	84	111	126	75	101
Channel	216-36DGVT2PRIB	116	---	99	---	---	---	108	87	98
NK	NK1808-3111	118	105	---	86	101	94	---	99	97
Phoenix	7402 A4	118	97	101	83	103	---	---	---	96
Doebler's	RPM® 5719AM™	117	94	109	98	86	74	121	85	95
Pioneer	P1637AM	116	96	82	89	89	98	111	89	93
MorCorn	MC 4725	117	105	105	73	89	---	---	---	93
Seed Consultants	SC 11AQ74™	117	97	95	101	102	70	96	76	91

* Relative yield is calculated by dividing the yield of a hybrid by the average yield of all hybrids of all maturities at that location. A hybrid with a relative yield of 105 was 5% above the average of all hybrids at that location. The value of 105 is not a yield but a value relative to all other yield values at that location. Relative yields are listed in order of descending mean values.

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

Table 3. Two-year Average RELATIVE YIELD* (2017-2018) of corn hybrids entered in three or more locations each year - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Number of Obs. ²	Relative Yield
<108 Days Relative Maturity				
Mid-Atlantic	MA8091	107	12	109
Mid-Atlantic	MA8092	107	12	92
Doebler's	RPM® 4417AMXT™	104	14	91
Mid-Atlantic	MA8034	103	12	88
Pioneer	P0339AM	103	14	85
108-111 Days Relative Maturity				
Channel	209-15VT2PRIB	109	8	104
Dyna-Gro	D50VC30	110	8	99
Pioneer	P1197AM	111	14	97
Seed Consultants	SC 11AQ17™	111	12	95
Progeny	PGY 7111VT2P	111	14	93
Doebler's	RPM® 4917AM™	109	14	92
Mid-Atlantic	MA8107	110	12	90
112-115 Days Relative Maturity				
Channel	213-19VT2PRIB	113	8	114
Channel	215-75VT2PRIB	115	6	110
DEKALB	DKC65-20RIB	115	14	110
Progeny	PGY 8116SS	115	14	109
MorCorn	MC 4319	113	7	107
AXIS	64D25RIB	114	11	106
Dyna-Gro	D52VC63	112	10	104
Seed Consultants	SCS 1158YHR™	115	12	103
DEKALB	DKC64-35RIB	114	14	102
DEKALB	DKC62-20RIB	112	14	101
AXIS	64K24RIB	114	11	100
Augusta	A1165	115	7	100
Progeny	PGY 5115VT2P	115	14	100
Channel	212-20VT2PRIB	112	10	99
>115 Days Relative Maturity				
DEKALB	DKC70-27RIB	120	14	115
Hubner Seed	H4890RC2P	117	14	111
DEKALB	DKC67-44RIB	117	14	111
AXIS	66A22RIB	116	11	107
Doebler's	RPM® 5818AM™	118	14	106
DEKALB	DKC66-75RIB	116	14	106
Progeny	PGY 6119VT2P	119	14	106
Pioneer	P1637AM	116	14	98
Seed Consultants	SCS 1168YHR™	116	12	98
Progeny	PGY 6116VT2P	116	14	98
NK	NK1808-3111	118	10	98
MorCorn	MC 4725	117	7	97

Table 3. Two-year Average RELATIVE YIELD* (2017-2018) of corn hybrids entered in three or more locations each year - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Number of Obs.²	Relative Yield
Seed Consultants	SC 11AQ74™	117	12	94

* Relative yield is calculated by dividing the yield of a hybrid by the average yield of all hybrids of all maturities at that location. A hybrid with a relative yield of 105 was 5% above the average of all hybrids at that location. The value of 105 is not a yield but a value relative to all other yield values at that location. Relative yields are listed in order of descending mean values. A hybrid does not have to be entered in the same three locations each year.

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² A higher number of site/year combinations provides a better estimate of hybrid performance than a single site/year location.

Table 4. Three-year Average RELATIVE YIELD* (2016-2018) of corn hybrids entered in three or more locations each year - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Number of Obs. ²	Relative Yield
<108 Days Relative Maturity				
Doebler's	RPM® 4417AMXT™	104	20	92
Pioneer	P0339AM	103	20	89
108-111 Days Relative Maturity				
Pioneer	P1197AM	111	20	98
Seed Consultants	SC 11AQ17™	111	16	95
Doebler's	RPM® 4917AM™	109	20	95
Mid-Atlantic	MA8107	110	15	94
112-115 Days Relative Maturity				
AXIS	64D25RIB	114	15	105
AXIS	64K24RIB	114	15	103
Progeny	PGY 5115VT2P	115	20	103
>115 Days Relative Maturity				
AXIS	66A22RIB	116	15	109
Progeny	PGY 6119VT2P	119	20	104
Pioneer	P1637AM	116	20	100
Progeny	PGY 6116VT2P	116	20	99

* Relative yield is calculated by dividing the yield of a hybrid by the average yield of all hybrids of all maturities at that location. A hybrid with a relative yield of 105 was 5% above the average of all hybrids at that location. The value of 105 is not a yield but a value relative to all other yield values at that location. Relative yields are listed in order of descending mean values. A hybrid does not have to be entered in the same three locations each year.

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² A higher number of site/year combinations provides a better estimate of hybrid performance than a single site/year location.

Table 5. Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Augusta	A4858	107	201	17.0	52.9
Pioneer	P0339AM	103	149	16.8	52.1
Doebler's	RPM® 4417AMXT™	104	137	15.9	54.1
	Maturity Average		162	16.6	53.0
	L.S.D. (0.05)		45	0.8	0.8
	C.V.		13	2.2	0.7
108-111 Days Relative Maturity					
Seed Consultants	SCS 1087YHR™	108	176	17.2	53.6
Progeny	PGY 7111VT2P	111	175	17.3	50.8
Doebler's	RPM® 5018AMXT™	110	171	16.6	53.7
Doebler's	RPM® 4919AM™	109	171	16.7	53.3
Seed Consultants	SC 11AQ17™	111	167	18.0	53.1
Hubner Seed	H4563RC2P	111	163	18.5	52.0
AXIS	60P29RIB	109	163	17.7	52.6
Doebler's	RPM® 4917AM™	109	158	17.3	52.3
Progeny	PGY 6110VT2P	110	157	17.4	50.4
Pioneer	P1197AM	111	156	18.1	51.8
	Maturity Average		166	17.5	52.3
	L.S.D. (0.05)		34	1.2	1.3
	C.V.		14	4.8	1.6
112-115 Days Relative Maturity					
AXIS	64D25RIB	114	204	19.3	49.8
AXIS	62A28RIB	112	198	18.7	54.2
DEKALB	DKC65-20RIB	115	198	19.7	52.3
NK	NK1573-3110	115	197	19.4	51.7
MorCorn	MC 4319	113	196	19.8	52.3
Progeny	PGY 4114V2P	114	190	17.9	53.2
Progeny	PGY 8116SS	115	189	20.7	53.6
DEKALB	DKC62-20RIB	112	189	17.6	51.6
Dyna-Gro	D52VC63	112	182	17.5	52.2
Augusta	A1165	115	181	20.3	50.9
Progeny	PGY EXP1814	114	179	18.2	52.8
DEKALB	DKC64-35RIB	114	174	18.1	53.2
Augusta	A4465	115	173	19.4	52.0
MorCorn	MC 4457	114	172	18.5	53.3
DEKALB	DKC65-95RIB	115	171	19.8	52.4
Augusta	A5065	115	170	20.7	53.7
Seed Consultants	SCS EXP114YHR™	114	167	17.3	53.1
DEKALB	DKC62-53RIB	112	165	18.5	50.9
AXIS	64K24RIB	114	165	18.5	51.3
Doebler's	RPM® 5319AM™	113	160	18.5	54.3

Table 5. Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
Phoenix	6507 A3	115	157	20.5	50.9
Seed Consultants	SCS 1158YHR™	115	156	18.6	52.5
Augusta	A1564	114	155	19.0	49.0
Dyna-Gro	D55VC45	115	151	19.8	52.5
Hubner Seed	H4663RC2P	113	149	19.4	51.4
Doebler's	RPM® 5518AMXT™	115	143	18.6	53.1
Seed Consultants	SC 11AQ15™	113	138	20.0	50.2
Progeny	PGY 5115VT2P	115	134	19.6	50.0
	Maturity Average		172	19.1	52.1
	L.S.D. (0.05)		33	1.2	1.7
	C.V.		12	3.9	1.9
>115 Days Relative Maturity					
DEKALB	DKC68-69RIB	118	232	22.0	53.0
DEKALB	DKC67-44RIB	117	211	19.3	52.6
Seed Consultants	SCS 1168YHR™	116	198	19.6	52.0
DEKALB	DKC70-27RIB	120	196	21.1	51.8
Doebler's	RPM® 5818AM™	118	196	20.0	52.7
AXIS	66R25RIB	116	189	21.1	53.0
Progeny	PGY 6116VT2P	116	187	19.8	50.9
DEKALB	DKC69-16RIB	119	186	19.4	51.3
NK	NK1808-3111	118	181	21.3	50.5
MorCorn	MC 4725	117	180	19.6	53.6
Progeny	PGY EXP1817	117	180	20.2	52.6
Hubner Seed	H6867RCSS	116	180	19.9	52.2
Progeny	PGY 6119VT2P	119	169	21.3	52.4
DEKALB	DKC66-75RIB	116	168	19.9	52.0
Seed Consultants	SC 11AQ74™	117	168	22.3	50.6
Phoenix	7402 A4	118	167	21.1	50.8
Dyna-Gro	D58VC65	118	166	19.3	52.9
Pioneer	P1637AM	116	166	20.0	53.3
Hubner Seed	H4890RC2P	117	165	20.6	52.8
Doebler's	RPM® 5719AM™	117	163	18.9	53.3
AXIS	66A22RIB	116	155	19.0	51.4
	Maturity Average		181	20.3	52.2
	L.S.D. (0.05)		34	1.7	1.4
	C.V.		13	5.6	1.7
	Location Average		173	19.1	52.2

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Planted April 19, 2018. Harvested August 30, 2018.

Table 6. Two-year Average Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Pioneer	P0339AM	103	133	16.3	53.0
Doebler's	RPM® 4417AMXT™	104	123	15.6	54.9
	Maturity Average		128	16.0	53.9
	L.S.D. (0.05)		31	0.4	0.8
	C.V.		16	1.7	1.0
108-111 Days Relative Maturity					
Pioneer	P1197AM	111	158	17.6	53.4
Progeny	PGY 7111VT2P	111	155	16.8	53.5
Doebler's	RPM® 4917AM™	109	151	17.1	53.2
	Maturity Average		155	17.2	53.4
	L.S.D. (0.05)		18	1.1	0.3
	C.V.		10	5.2	0.5
112-115 Days Relative Maturity					
Dyna-Gro	D52VC63	112	170	17.8	52.8
AXIS	64D25RIB	114	170	18.2	51.8
DEKALB	DKC65-20RIB	115	169	19.4	53.7
Augusta	A1165	115	169	19.6	52.7
Progeny	PGY 8116SS	115	168	19.9	54.3
DEKALB	DKC64-35RIB	114	162	17.6	54.3
DEKALB	DKC62-20RIB	112	162	17.1	53.4
AXIS	64K24RIB	114	145	17.6	53.1
Progeny	PGY 5115VT2P	115	136	19.1	52.0
	Maturity Average		161	18.5	53.1
	L.S.D. (0.05)		21	0.8	0.9
	C.V.		11	3.9	1.3
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	183	18.7	53.5
Doebler's	RPM® 5818AM™	118	178	19.5	54.0
DEKALB	DKC70-27RIB	120	177	20.5	52.9
NK	NK1808-3111	118	163	21.2	51.5
Hubner Seed	H4890RC2P	117	163	19.8	53.5
Progeny	PGY 6116VT2P	116	161	18.8	52.5
Progeny	PGY 6119VT2P	119	159	20.7	53.8
Pioneer	P1637AM	116	153	19.7	53.4
DEKALB	DKC66-75RIB	116	153	18.6	53.1
AXIS	66A22RIB	116	149	18.3	52.3

Table 6. Two-year Average Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
	Maturity Average		164	19.6	53.0
	L.S.D. (0.05)		18	1.4	0.8
	C.V.		11	7.0	1.5
	Location Average		159	18.6	53.2

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 7. Three-year Average Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA, 2016-2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Pioneer	P0339AM	103	152	16.4	53.0
Doebler's	RPM® 4417AMXT™	104	140	16.3	54.6
	Maturity Average		146	16.4	53.8
	L.S.D. (0.05)		16	0.3	0.6
	C.V.		11	1.7	1.1
108-111 Days Relative Maturity					
Pioneer	P1197AM	111	164	17.7	52.8
Doebler's	RPM® 4917AM™	109	163	17.4	52.8
	Maturity Average		164	17.6	52.8
	L.S.D. (0.05)		18	0.5	0.2
	C.V.		10	2.8	0.3
112-115 Days Relative Maturity					
AXIS	64D25RIB	114	177	19.0	51.8
AXIS	64K24RIB	114	168	19.0	53.0
Progeny	PGY 5115VT2P	115	156	19.5	52.2
	Maturity Average		167	19.2	52.3
	L.S.D. (0.05)		16	0.7	1.4
	C.V.		10	3.5	2.7
>115 Days Relative Maturity					
Progeny	PGY 6119VT2P	119	170	21.8	53.1
Progeny	PGY 6116VT2P	116	169	19.4	52.1
AXIS	66A22RIB	116	161	18.9	52.2
Pioneer	P1637AM	116	161	19.7	53.3
	Maturity Average		165	20.0	52.7
	L.S.D. (0.05)		12	1.2	0.9
	C.V.		9	6.9	2.0
	Location Average		162	18.7	52.8

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 8. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8099	107	164	20.9	52.3
Mid-Atlantic	MA8091	107	164	20.4	52.1
Mid-Atlantic	MA8074	107	162	19.4	53.8
Augusta	A4858	107	156	21.8	51.4
Mid-Atlantic	MA8063	106	146	18.9	52.5
Channel	205-63VT2PRIB	105	142	19.2	52.4
Channel	206-11VT2PRIB	106	138	18.4	50.5
Mid-Atlantic	MA8034	103	137	20.3	52.4
Pioneer	P0339AM	103	136	19.4	51.4
Mid-Atlantic	MA8092	107	128	19.4	50.0
Doebler's	RPM® 4417AMXT™	104	116	19.2	52.6
	Maturity Average		144	19.7	52.0
	L.S.D. (0.05)		21	0.7	2.4
	C.V.		9	2.3	2.8
108-111 Days Relative Maturity					
Hubner Seed	H4563RC2P	111	170	20.5	51.6
Dyna-Gro	D50VC30	110	167	19.6	52.2
Channel	210-79VT2PRIB	110	158	20.1	50.8
Augusta	A4959	109	156	19.7	51.9
Channel	209-15VT2PRIB	109	152	19.5	50.5
Doebler's	RPM® 5018AMXT™	110	149	18.6	53.1
Augusta	A4860	110	146	19.1	51.2
AXIS	60P29RIB	109	139	20.1	49.5
Progeny	PGY 7111VT2P	111	136	19.4	51.9
Doebler's	RPM® 4919AM™	109	134	18.8	52.9
Seed Consultants	SCS 1087YHR™	108	132	18.4	51.8
Seed Consultants	SC 11AQ17™	111	121	18.4	53.0
Pioneer	P1197AM	111	120	19.2	52.7
Mid-Atlantic	MA8107	110	116	19.0	52.1
Progeny	PGY 6110VT2P	110	110	19.5	52.6
Doebler's	RPM® 4917AM™	109	108	19.1	51.5
	Maturity Average		138	19.3	51.8
	L.S.D. (0.05)		20	1.3	2.7
	C.V.		8	3.6	2.3

Table 8. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
112-115 Days Relative Maturity					
Mid-Atlantic	MA8132	113	174	21.1	52.3
Dyna-Gro	D52VC63	112	171	20.2	51.1
DEKALB	DKC65-20RIB	115	170	23.6	51.3
DEKALB	DKC65-95RIB	115	167	23.1	52.3
MorCorn	MC 4319	113	166	20.9	51.2
DEKALB	DKC62-53RIB	112	166	22.0	52.3
DEKALB	DKC62-20RIB	112	162	19.8	51.2
AXIS	64D25RIB	114	161	21.5	51.0
Seed Consultants	SCS 1158YHR™	115	161	19.8	52.1
Channel	213-19VT2PRIB	113	160	19.9	53.0
DEKALB	DKC64-35RIB	114	159	21.9	52.2
AXIS	62A28RIB	112	154	20.3	52.1
Phoenix	6507 A3	115	152	21.2	51.2
Dyna-Gro	D55VC45	115	151	21.2	51.2
NK	NK1573-3110	115	150	22.4	51.1
Mid-Atlantic	MA8163	115	148	21.2	54.1
Augusta	A4463	113	148	19.6	53.4
Doebler's	RPM® 5319AM™	113	147	19.0	54.3
Hubner Seed	H4663RC2P	113	144	20.8	52.3
Seed Consultants	SCS EXP114YHR™	114	140	20.5	52.1
Progeny	PGY 4114V2P	114	139	18.4	53.9
Progeny	PGY 5115VT2P	115	138	19.8	52.0
Augusta	A1564	114	136	20.6	50.8
AXIS	64K24RIB	114	132	20.8	51.6
Doebler's	RPM® 5518AMXT™	115	130	19.5	53.1
MorCorn	MC 4457	114	129	20.9	51.2
Progeny	PGY 8116SS	115	128	20.2	54.6
Channel	212-20VT2PRIB	112	125	20.0	52.2
Augusta	A4465	115	124	21.8	52.3
Seed Consultants	SC 11AQ15™	113	121	20.8	49.3
Progeny	PGY EXP1814	114	114	19.2	53.5
	Maturity Average		147	20.7	52.1
	L.S.D. (0.05)		23	1.1	2.2
	C.V.		10	3.4	2.6
>115 Days Relative Maturity					
Progeny	PGY 6119VT2P	119	165	21.8	50.0
Progeny	PGY EXP1817	117	162	22.3	52.0
Hubner Seed	H4890RC2P	117	161	20.9	52.3
AXIS	66R25RIB	116	154	20.2	52.0
Hubner Seed	H6867RCSS	116	153	20.5	51.8
DEKALB	DKC69-16RIB	119	152	21.5	53.3

Table 8. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
DEKALB	DKC66-75RIB	116	152	19.9	52.5
DEKALB	DKC67-44RIB	117	148	19.5	53.9
Seed Consultants	SC 11AQ74™	117	145	23.8	49.9
Seed Consultants	SCS 1168YHR™	116	145	20.3	53.0
AXIS	66A22RIB	116	145	19.3	52.0
Doebler's	RPM® 5719AM™	117	141	21.7	51.8
DEKALB	DKC68-69RIB	118	137	20.6	53.8
Doebler's	RPM® 5818AM™	118	136	21.2	52.4
DEKALB	DKC70-27RIB	120	133	21.2	53.5
Dyna-Gro	D58VC65	118	129	19.8	52.3
Pioneer	P1637AM	116	128	20.5	52.6
NK	NK1808-3111	118	123	23.0	51.2
Progeny	PGY 6116VT2P	116	120	21.0	50.8
Phoenix	7402 A4	118	119	22.4	53.0
MorCorn	MC 4725	117	104	20.7	54.3
Maturity Average			141	21.1	52.3
L.S.D. (0.05)			24	1.1	3.0
C.V.			10	3.2	3.0
Location Average			143	20.4	52.1

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Planted April 30, 2018. Harvested September 19, 2018. Population was 25,100 plants/acre.

Table 9. Two-year Average Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	168	19.8	52.9
Mid-Atlantic	MA8034	103	151	18.1	54.4
Doebler's	RPM® 4417AMXT™	104	137	17.6	54.5
Mid-Atlantic	MA8092	107	137	18.3	51.9
Pioneer	P0339AM	103	134	18.1	52.8
	Maturity Average		146	18.4	53.3
	L.S.D. (0.05)		13	0.7	0.7
	C.V.		7	2.9	1.1
108-111 Days Relative Maturity					
Dyna-Gro	D50VC30	110	161	17.9	55.5
Channel	209-15VT2PRIB	109	152	18.8	52.9
Seed Consultants	SC 11AQ17™	111	142	18.5	55.7
Progeny	PGY 7111VT2P	111	139	18.8	54.4
Pioneer	P1197AM	111	133	18.2	54.9
Doebler's	RPM® 4917AM™	109	126	17.8	53.9
Mid-Atlantic	MA8107	110	123	18.4	54.3
	Maturity Average		139	18.3	54.5
	L.S.D. (0.05)		21	0.7	0.5
	C.V.		12	3.1	0.7
112-115 Days Relative Maturity					
Dyna-Gro	D52VC63	112	166	19.9	52.2
MorCorn	MC 4319	113	160	20.3	53.6
AXIS	64D25RIB	114	158	20.6	52.3
DEKALB	DKC65-20RIB	115	157	22.3	52.9
Progeny	PGY 5115VT2P	115	156	19.3	52.9
DEKALB	DKC62-20RIB	112	155	18.7	53.7
Progeny	PGY 8116SS	115	151	20.9	54.7
DEKALB	DKC64-35RIB	114	149	20.2	54.0
Seed Consultants	SCS 1158YHR™	115	147	19.7	53.2
AXIS	64K24RIB	114	145	19.6	53.2
Channel	212-20VT2PRIB	112	136	18.8	54.2
	Maturity Average		153	20.0	53.3
	L.S.D. (0.05)		17	0.7	0.8
	C.V.		10	3.1	1.3

Table 9. Two-year Average Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	168	20.0	54.4
Progeny	PGY 6119VT2P	119	167	21.2	52.0
Hubner Seed	H4890RC2P	117	160	21.0	53.6
DEKALB	DKC66-75RIB	116	157	19.7	53.7
Seed Consultants	SCS 1168YHR™	116	153	19.9	53.5
DEKALB	DKC70-27RIB	120	152	21.2	53.9
AXIS	66A22RIB	116	149	20.3	52.8
Seed Consultants	SC 11AQ74™	117	145	23.2	52.6
Pioneer	P1637AM	116	141	20.5	53.5
Doebler's	RPM® 5818AM™	118	135	21.2	53.4
Progeny	PGY 6116VT2P	116	130	20.6	52.4
NK	NK1808-3111	118	128	22.7	51.8
MorCorn	MC 4725	117	119	20.1	54.8
	Maturity Average		147	20.9	53.2
	L.S.D. (0.05)		16	0.8	1.3
	C.V.		10	3.6	2.1
	Location Average		147	19.8	53.5

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 10. Three-year Average Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA, 2016-2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8034	103	127	17.4	53.4
Doebler's	RPM® 4417AMXT™	104	123	16.4	53.9
Pioneer	P0339AM	103	116	17.2	52.5
	Maturity Average		122	17.0	53.2
	L.S.D. (0.05)		10	0.9	0.8
	C.V.		7	4.7	1.4
108-111 Days Relative Maturity					
Mid-Atlantic	MA8107	110	119	17.6	53.3
Doebler's	RPM® 4917AM™	109	119	17.0	54.0
Seed Consultants	SC 11AQ17™	111	117	17.7	54.2
Pioneer	P1197AM	111	115	17.3	54.4
	Maturity Average		118	17.4	54.0
	L.S.D. (0.05)		15	0.7	1.1
	C.V.		13	4.1	1.9
112-115 Days Relative Maturity					
Progeny	PGY 5115VT2P	115	140	18.3	52.9
AXIS	64K24RIB	114	136	19.6	52.9
AXIS	64D25RIB	114	134	20.1	52.0
	Maturity Average		137	19.3	52.6
	L.S.D. (0.05)		26	0.7	0.7
	C.V.		19	3.8	1.2
>115 Days Relative Maturity					
AXIS	66A22RIB	116	142	20.1	52.7
Progeny	PGY 6119VT2P	119	135	19.8	52.5
Pioneer	P1637AM	116	122	19.6	53.5
Progeny	PGY 6116VT2P	116	114	18.9	52.4
	Maturity Average		128	19.6	52.8
	L.S.D. (0.05)		11	0.7	1.1
	C.V.		10	3.7	2.3
	Location Average		126	18.3	53.2

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 11. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Augusta	A4858	107	162	15.7	54.3
Mid-Atlantic	MA8092	107	155	15.7	53.1
Mid-Atlantic	MA8074	107	155	15.4	55.0
Mid-Atlantic	MA8091	107	153	16.7	53.9
Mid-Atlantic	MA8034	103	143	15.4	54.5
Doebler's	RPM® 4417AMXT™	104	141	15.2	54.9
Channel	206-11VT2PRIB	106	138	14.5	52.6
Mid-Atlantic	MA8099	107	135	16.5	55.9
Pioneer	P0339AM	103	134	15.5	53.6
Channel	205-63VT2PRIB	105	128	15.0	55.0
Mid-Atlantic	MA8063	106	112	14.7	55.1
	Maturity Average		142	15.5	54.3
	L.S.D. (0.05)		22	0.7	1.4
	C.V.		10	2.9	1.6
108-111 Days Relative Maturity					
Progeny	PGY 7111VT2P	111	162	16.3	53.9
Channel	209-15VT2PRIB	109	160	15.8	55.7
Channel	210-79VT2PRIB	110	153	15.6	53.8
AXIS	60P29RIB	109	149	15.8	54.7
Doebler's	RPM® 4917AM™	109	147	15.9	54.3
Seed Consultants	SCS 1087YHR™	108	146	15.2	53.6
Doebler's	RPM® 4919AM™	109	143	15.7	53.3
Hubner Seed	H4563RC2P	111	140	16.3	55.6
Doebler's	RPM® 5018AMXT™	110	135	15.1	53.4
Mid-Atlantic	MA8107	110	132	15.6	53.9
Augusta	A4860	110	130	16.4	53.6
Augusta	A4959	109	126	16.1	55.6
Seed Consultants	SC 11AQ17™	111	125	15.8	54.8
Dyna-Gro	D50VC30	110	123	15.7	55.1
Pioneer	P1197AM	111	122	15.8	55.5
Progeny	PGY 6110VT2P	110	121	16.7	55.1
	Maturity Average		138	15.9	54.5
	L.S.D. (0.05)		24	0.9	1.6
	C.V.		12	3.8	1.9

Table 11. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
112-115 Days Relative Maturity					
Progeny	PGY 4114V2P	114	176	16.3	54.8
Phoenix	6507 A3	115	170	16.8	52.0
DEKALB	DKC62-53RIB	112	167	15.9	54.5
Channel	213-19VT2PRIB	113	165	16.5	55.5
Hubner Seed	H4663RC2P	113	164	16.1	53.9
Augusta	A4463	113	162	16.7	53.9
Doebler's	RPM® 5518AMXT™	115	160	16.2	53.9
Augusta	A1564	114	159	17.2	51.5
Seed Consultants	SC 11AQ15™	113	157	16.4	54.9
Mid-Atlantic	MA8163	115	157	17.2	56.6
Doebler's	RPM® 5319AM™	113	155	16.3	56.1
AXIS	62A28RIB	112	154	15.8	54.3
Progeny	PGY 8116SS	115	152	16.7	55.1
MorCorn	MC 4457	114	151	16.1	55.6
DEKALB	DKC65-95RIB	115	150	16.2	56.7
AXIS	64K24RIB	114	149	16.8	54.5
MorCorn	MC 4319	113	149	17.2	55.9
DEKALB	DKC64-35RIB	114	147	19.6	54.7
Progeny	PGY EXP1814	114	147	17.1	55.9
Mid-Atlantic	MA8132	113	146	16.7	55.3
Channel	212-20VT2PRIB	112	145	16.1	55.2
Augusta	A4465	115	144	16.4	53.8
Seed Consultants	SCS EXP114YHR™	114	144	16.5	53.7
Dyna-Gro	D55VC45	115	142	16.0	56.1
Progeny	PGY 5115VT2P	115	142	17.3	53.4
Dyna-Gro	D52VC63	112	141	15.7	54.1
DEKALB	DKC62-20RIB	112	140	15.6	54.9
Seed Consultants	SCS 1158YHR™	115	139	18.1	53.7
AXIS	64D25RIB	114	132	16.5	54.2
DEKALB	DKC65-20RIB	115	132	17.7	57.8
NK	NK1573-3110	115	128	16.3	53.4
	Maturity Average		151	16.6	54.7
	L.S.D. (0.05)		21	2.6	1.6
	C.V.		10	10.3	1.8
>115 Days Relative Maturity					
Progeny	PGY 6116VT2P	116	164	17.0	54.2
Hubner Seed	H4890RC2P	117	156	17.4	56.5
Progeny	PGY 6119VT2P	119	155	17.8	56.1
DEKALB	DKC67-44RIB	117	154	16.1	55.5
DEKALB	DKC68-69RIB	118	151	18.1	56.9
Hubner Seed	H6867RCSS	116	148	17.8	55.3

Table 11. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
Phoenix	7402 A4	118	148	20.1	53.3
Seed Consultants	SC 11AQ74™	117	147	18.8	54.0
NK	NK1808-3111	118	145	19.9	52.4
AXIS	66A22RIB	116	144	16.8	53.6
Dyna-Gro	D58VC65	118	142	16.6	56.1
DEKALB	DKC70-27RIB	120	140	17.2	55.6
DEKALB	DKC69-16RIB	119	135	17.9	56.1
DEKALB	DKC66-75RIB	116	129	16.4	55.5
AXIS	66R25RIB	116	129	17.4	56.2
MorCorn	MC 4725	117	128	17.3	55.7
Pioneer	P1637AM	116	128	17.1	55.3
Progeny	PGY EXP1817	117	125	16.9	55.7
Doebler's	RPM® 5719AM™	117	123	16.5	54.8
Doebler's	RPM® 5818AM™	118	121	16.9	54.3
Seed Consultants	SCS 1168YHR™	116	120	16.2	54.8
	Maturity Average		140	17.4	55.1
	L.S.D. (0.05)		23	0.8	1.5
	C.V.		11	3.2	1.8
	Location Average		144	16.5	54.7

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Planted April 30 - May 1, 2018. Harvested September 20-21, 2018.

No irrigation was applied due to flooding of equipment.

Table 12. Two-year Average Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	191	17.4	54.2
Mid-Atlantic	MA8092	107	173	16.0	52.8
Pioneer	P0339AM	103	170	15.5	54.0
Mid-Atlantic	MA8034	103	160	15.1	55.5
Doebler's	RPM® 4417AMXT™	104	157	15.7	55.1
	Maturity Average		170	16.0	54.3
	L.S.D. (0.05)		15	0.7	1.0
	C.V.		8	3.9	1.5
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	216	16.6	54.4
Progeny	PGY 7111VT2P	111	192	16.5	55.2
Pioneer	P1197AM	111	182	16.4	55.0
Seed Consultants	SC 11AQ17™	111	178	17.4	54.4
Doebler's	RPM® 4917AM™	109	175	16.8	54.5
Mid-Atlantic	MA8107	110	172	16.4	54.0
Dyna-Gro	D50VC30	110	168	16.0	54.5
	Maturity Average		183	16.6	54.6
	L.S.D. (0.05)		16	0.7	1.1
	C.V.		8	3.9	1.8
112-115 Days Relative Maturity					
AXIS	64D25RIB	114	196	17.7	52.9
Progeny	PGY 8116SS	115	194	18.6	55.1
AXIS	64K24RIB	114	185	17.4	54.1
DEKALB	DKC64-35RIB	114	185	18.5	55.0
MorCorn	MC 4319	113	184	17.9	55.5
DEKALB	DKC65-20RIB	115	183	18.6	56.5
Channel	212-20VT2PRIB	112	181	16.7	55.0
Seed Consultants	SCS 1158YHR™	115	180	18.4	54.0
Progeny	PGY 5115VT2P	115	173	17.7	53.7
DEKALB	DKC62-20RIB	112	172	16.2	54.8
Dyna-Gro	D52VC63	112	171	16.9	53.9
	Maturity Average		182	17.7	54.6
	L.S.D. (0.05)		17	2.0	1.1
	C.V.		9	11.0	1.7

Table 12. Two-year Average Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	193	18.7	55.4
Progeny	PGY 6116VT2P	116	190	17.8	54.0
DEKALB	DKC67-44RIB	117	188	17.7	55.2
AXIS	66A22RIB	116	188	17.5	53.9
DEKALB	DKC70-27RIB	120	185	18.3	55.1
DEKALB	DKC66-75RIB	116	184	17.5	54.7
Doebler's	RPM® 5818AM™	118	183	18.6	54.3
Seed Consultants	SC 11AQ74™	117	180	19.2	53.8
MorCorn	MC 4725	117	179	18.3	55.1
Progeny	PGY 6119VT2P	119	179	18.3	55.7
NK	NK1808-3111	118	174	19.5	52.4
Seed Consultants	SCS 1168YHR™	116	171	17.1	55.1
Pioneer	P1637AM	116	170	18.1	55.0
	Maturity Average		182	18.2	54.6
	L.S.D. (0.05)		17	0.6	1.1
	C.V.		9	3.0	1.8
	Location Average		181	17.4	54.6

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 13. Three-year Average Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA, 2016-2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Pioneer	P0339AM	103	186	16.1	54.3
Doebler's	RPM® 4417AMXT™	104	181	16.7	55.0
Mid-Atlantic	MA8034	103	172	16.3	54.8
	Maturity Average		179	16.4	54.7
	L.S.D. (0.05)		14	1.2	1.3
	C.V.		8	7.7	2.2
108-111 Days Relative Maturity					
Pioneer	P1197AM	111	197	17.3	55.0
Doebler's	RPM® 4917AM™	109	196	17.6	54.9
Seed Consultants	SC 11AQ17™	111	192	19.2	53.8
Mid-Atlantic	MA8107	110	191	17.7	53.8
	Maturity Average		194	17.9	54.4
	L.S.D. (0.05)		14	0.7	0.8
	C.V.		9	4.5	1.6
112-115 Days Relative Maturity					
AXIS	64D25RIB	114	210	18.8	53.0
AXIS	64K24RIB	114	203	19.0	54.0
Progeny	PGY 5115VT2P	115	202	19.3	52.9
	Maturity Average		205	19.0	53.3
	L.S.D. (0.05)		10	0.9	0.7
	C.V.		5	4.9	1.3
>115 Days Relative Maturity					
AXIS	66A22RIB	116	205	20.0	53.3
Progeny	PGY 6116VT2P	116	200	18.7	53.7
Progeny	PGY 6119VT2P	119	200	20.0	55.2
Pioneer	P1637AM	116	197	19.4	55.0
	Maturity Average		200	19.5	54.3
	L.S.D. (0.05)		15	0.7	0.7
	C.V.		8	4.1	1.4
	Location Average		195	18.3	54.2

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 14. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8034	103	185	14.4	54.9
Mid-Atlantic	MA8074	107	154	17.2	54.1
Mid-Atlantic	MA8099	107	153	18.9	54.5
Pioneer	P0339AM	103	147	16.0	53.2
Mid-Atlantic	MA8092	107	147	17.0	53.1
Mid-Atlantic	MA8091	107	141	18.7	53.8
Doebler's	RPM® 4417AMXT™	104	138	17.5	55.3
Mid-Atlantic	MA8063	106	136	17.0	52.8
	Maturity Average		150	17.1	54.0
	L.S.D. (0.05)		37	2.5	1.3
	C.V.		14	7.6	1.3
108-111 Days Relative Maturity					
Hubner Seed	H4563RC2P	111	204	19.0	53.1
Doebler's	RPM® 5018AMXT™	110	182	17.2	53.8
Channel	209-15VT2PRIB	109	160	17.8	53.5
Seed Consultants	SC 11AQ17™	111	158	18.1	52.3
Pioneer	P1197AM	111	155	17.9	55.1
Seed Consultants	SCS 1087YHR™	108	152	17.2	54.9
Progeny	PGY 7111VT2P	111	150	17.5	53.0
AXIS	60P29RIB	109	148	17.6	54.3
Mid-Atlantic	MA8107	110	143	17.3	51.1
Channel	210-79VT2PRIB	110	139	16.6	54.5
Doebler's	RPM® 4919AM™	109	139	18.0	53.3
Doebler's	RPM® 4917AM™	109	137	17.2	53.6
Progeny	PGY 6110VT2P	110	125	17.4	55.0
	Maturity Average		153	17.6	53.6
	L.S.D. (0.05)		33	1.9	2.8
	C.V.		14	7.1	3.2
112-115 Days Relative Maturity					
Mid-Atlantic	MA8163	115	202	20.0	54.9
Progeny	PGY 8116SS	115	193	19.3	53.9
Channel	215-60TRERIB	115	179	18.5	52.5
Dyna-Gro	D52VC63	112	178	17.9	53.5
DEKALB	DKC65-95RIB	115	178	19.7	54.2
Channel	213-19VT2PRIB	113	177	17.9	54.3
DEKALB	DKC62-20RIB	112	175	17.4	53.7
DEKALB	DKC65-20RIB	115	174	19.8	54.6
MorCorn	MC 4319	113	173	19.9	54.1
DEKALB	DKC62-53RIB	112	172	18.9	53.8
MorCorn	MC 4457	114	172	18.9	54.8
Doebler's	RPM® 5319AM™	113	169	18.9	55.0

Table 14. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
Phoenix	6507 A3	115	168	20.2	50.7
Channel	215-75VT2PRIB	115	166	18.1	53.2
DEKALB	DKC64-35RIB	114	166	18.6	54.5
Doebler's	RPM® 5518AMXT™	115	165	19.3	53.1
AXIS	64D25RIB	114	163	19.7	53.0
Hubner Seed	H4663RC2P	113	162	18.8	52.8
Seed Consultants	SCS EXP114YHR™	114	162	18.9	53.2
AXIS	64K24RIB	114	161	19.3	53.2
Mid-Atlantic	MA8132	113	156	19.2	53.2
Progeny	PGY 5115VT2P	115	151	19.6	53.1
Progeny	PGY 4114V2P	114	150	19.0	54.5
AXIS	62A28RIB	112	144	19.4	53.5
Progeny	PGY EXP1814	114	142	18.8	55.6
Seed Consultants	SC 11AQ15™	113	141	19.5	52.2
Channel	212-20VT2PRIB	112	136	18.0	53.6
Seed Consultants	SCS 1158YHR™	115	114	20.2	53.1
Maturity Average			164	19.1	53.6
L.S.D. (0.05)			34	1.7	1.5
C.V.			13	5.7	1.7
>115 Days Relative Maturity					
DEKALB	DKC70-27RIB	120	178	21.0	52.6
AXIS	66R25RIB	116	178	21.5	52.9
Progeny	PGY 7118VT2P	118	177	20.1	53.3
DEKALB	DKC67-44RIB	117	174	19.4	54.0
Doebler's	RPM® 5719AM™	117	173	18.6	52.8
Hubner Seed	H6867RCSS	116	170	18.6	53.8
Hubner Seed	H4890RC2P	117	169	20.1	54.2
MorCorn	MC 4725	117	167	19.7	54.3
DEKALB	DKC66-75RIB	116	165	19.0	52.9
Progeny	PGY EXP1817	117	163	20.8	54.5
Doebler's	RPM® 5818AM™	118	160	20.1	54.4
AXIS	66A22RIB	116	160	20.6	52.8
Phoenix	7402 A4	118	160	19.5	52.4
Progeny	PGY 6119VT2P	119	159	20.9	53.3
DEKALB	DKC69-16RIB	119	158	20.6	54.3
Channel	216-36DGV2PRIB	116	157	18.6	53.6
Seed Consultants	SC 11AQ74™	117	151	22.3	52.6
Seed Consultants	SCS 1168YHR™	116	147	21.6	52.9
Progeny	PGY 6116VT2P	116	145	21.0	51.9
DEKALB	DKC68-69RIB	118	137	20.3	54.0
Pioneer	P1637AM	116	130	19.4	53.6

**Table 14. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA
in 2018 - Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
	Maturity Average		161	20.2	53.4
	L.S.D. (0.05)		36	2.1	1.7
	C.V.		15	6.8	2.0
	Location Average		159	18.9	53.6

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Planted April 20, 2018. Harvested September 6, 2018. Population was 20,140 plants/acre.

Table 15. Two-year Average Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8092	107	132	16.7	52.2
Mid-Atlantic	MA8034	103	130	15.5	53.0
Doebler's	RPM® 4417AMXT™	104	125	16.9	54.2
Pioneer	P0339AM	103	123	15.7	52.1
Mid-Atlantic	MA8091	107	123	17.4	52.9
	Maturity Average		126	16.4	52.9
	L.S.D. (0.05)		14	1.5	1.1
	C.V.		9	7.5	1.5
108-111 Days Relative Maturity					
Pioneer	P1197AM	111	128	17.5	53.2
Mid-Atlantic	MA8107	110	127	16.5	51.2
Progeny	PGY 7111VT2P	111	121	16.7	53.3
Doebler's	RPM® 4917AM™	109	118	17.2	52.8
	Maturity Average		124	17.0	52.6
	L.S.D. (0.05)		15	0.9	1.5
	C.V.		11	5.1	2.5
112-115 Days Relative Maturity					
Progeny	PGY 8116SS	115	148	17.7	54.1
MorCorn	MC 4319	113	144	19.2	53.8
Channel	213-19VT2PRIB	113	143	16.7	53.2
DEKALB	DKC65-20RIB	115	142	20.0	54.1
Channel	215-75VT2PRIB	115	134	17.0	52.4
DEKALB	DKC62-20RIB	112	130	16.8	53.5
DEKALB	DKC64-35RIB	114	127	17.6	53.6
Channel	212-20VT2PRIB	112	121	17.3	53.4
Progeny	PGY 5115VT2P	115	119	18.1	52.2
	Maturity Average		134	17.8	53.4
	L.S.D. (0.05)		21	1.3	0.8
	C.V.		15	6.6	1.4
>115 Days Relative Maturity					
MorCorn	MC 4725	117	142	19.7	53.4
DEKALB	DKC67-44RIB	117	141	17.9	53.8
Hubner Seed	H4890RC2P	117	139	18.8	54.1
DEKALB	DKC66-75RIB	116	136	17.4	52.6
Doebler's	RPM® 5818AM™	118	135	20.8	53.6
Progeny	PGY 6119VT2P	119	134	19.9	53.0
DEKALB	DKC70-27RIB	120	133	19.9	52.1
Progeny	PGY 6116VT2P	116	120	19.0	51.6
Pioneer	P1637AM	116	117	20.2	52.5

Table 15. Two-year Average Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
	Maturity Average		133	19.3	52.9
	L.S.D. (0.05)		15	1.4	0.8
	C.V.		11	7.0	1.4
	Location Average		131	17.9	53.0

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

³ Percentage of plants lodged based on the average plant population for the site.

Table 16. Three-year Average Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA, 2016-2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Doebler's	RPM® 4417AMXT™	104	127	15.9	55.2
Pioneer	P0339AM	103	123	14.9	53.6
	Maturity Average		125	15.4	54.4
	L.S.D. (0.05)		9	1.2	1.1
	C.V.		7	7.3	1.8
108-111 Days Relative Maturity					
Mid-Atlantic	MA8107	110	130	16.3	52.6
Pioneer	P1197AM	111	130	16.8	54.3
Doebler's	RPM® 4917AM™	109	126	16.8	53.9
	Maturity Average		129	16.6	53.6
	L.S.D. (0.05)		11	0.7	1.2
	C.V.		9	4.6	2.5
112-115 Days Relative Maturity					
Progeny	PGY 5115VT2P	115	130	17.8	53.5
>115 Days Relative Maturity					
Progeny	PGY 6119VT2P	119	139	19.5	54.3
Progeny	PGY 6116VT2P	116	126	18.7	52.7
Pioneer	P1637AM	116	121	19.5	53.7
	Maturity Average		128	19.2	53.6
	L.S.D. (0.05)		10	1.1	0.8
	C.V.		8	6.6	1.6
	Location Average		128	17.4	53.8

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 17. Corn Yields at KENTLAND Farm at BLACKSBURG, VA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	150	15.6	55.1
Mid-Atlantic	MA8099	107	99	15.8	54.9
Mid-Atlantic	MA8074	107	89	14.5	53.1
Mid-Atlantic	MA8063	106	82	13.2	55.3
Mid-Atlantic	MA8092	107	82	13.4	54.4
Pioneer	P0339AM	103	67	15.2	53.2
Mid-Atlantic	MA8034	103	63	13.2	55.7
Doebler's	RPM® 4417AMXT™	104	---	---	---
	Maturity Average		90	14.4	54.5
	L.S.D. (0.05)		55	1.9	4.6
	C.V.		27	5.8	3.0
108-111 Days Relative Maturity					
Seed Consultants	SCS 1087YHR™	108	137	15.1	56.1
Seed Consultants	SC 11AQ17™	111	114	15.5	54.5
Doebler's	RPM® 5018AMXT™	110	113	14.9	56.4
Pioneer	P1197AM	111	108	15.7	56.5
NK	N0968-3110	109	105	15.6	53.2
Doebler's	RPM® 4919AM™	109	104	14.9	54.5
Doebler's	RPM® 4917AM™	109	98	15.1	53.5
Hubner Seed	H4563RC2P	111	94	17.1	56.5
Progeny	PGY 7111VT2P	111	83	14.8	54.4
Progeny	PGY 6110VT2P	110	76	14.9	54.8
Mid-Atlantic	MA8107	110	66	14.5	53.8
AXIS	60P29RIB	109	---	---	---
	Maturity Average		100	15.3	54.9
	L.S.D. (0.05)		30	0.7	2.6
	C.V.		16	2.5	2.5
112-115 Days Relative Maturity					
Progeny	PGY 8116SS	115	167	17.0	56.1
Mid-Atlantic	MA8163	115	156	16.8	55.2
AXIS	64D25RIB	114	148	17.0	52.8
DEKALB	DKC64-35RIB	114	147	16.6	56.6
AXIS	62A28RIB	112	130	16.0	55.3
Seed Consultants	SCS 1158YHR™	115	129	17.5	53.6
DEKALB	DKC65-20RIB	115	127	19.3	56.2
Doebler's	RPM® 5319AM™	113	127	16.8	56.1
Doebler's	RPM® 5518AMXT™	115	125	17.3	57.1
Mid-Atlantic	MA8132	113	118	16.8	56.3
DEKALB	DKC65-95RIB	115	118	17.0	---
Dyna-Gro	D52VC63	112	118	15.6	56.1
Progeny	PGY 4114V2P	114	114	15.8	56.4
Hubner Seed	H4663RC2P	113	110	16.7	54.8

Table 17. Corn Yields at KENTLAND Farm at BLACKSBURG, VA in 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
Progeny	PGY EXP1814	114	110	16.1	56.8
Augusta	A1165	115	110	16.9	55.5
AXIS	64K24RIB	114	108	16.5	55.5
Progeny	PGY 5115VT2P	115	104	16.9	55.0
Seed Consultants	SC 11AQ15™	113	102	17.1	53.4
DEKALB	DKC62-53RIB	112	97	15.0	53.7
NK	NK1573-3110	115	96	16.8	55.6
Seed Consultants	SCS EXP114YHR™	114	93	16.1	54.8
DEKALB	DKC62-20RIB	112	86	15.6	54.1
	Maturity Average		119	16.7	55.3
	L.S.D. (0.05)		35	1.3	1.7
	C.V.		18	4.8	1.6
>115 Days Relative Maturity					
DEKALB	DKC70-27RIB	120	164	18.9	53.3
DEKALB	DKC68-69RIB	118	158	18.8	54.8
Hubner Seed	H4890RC2P	117	156	17.3	54.9
AXIS	66R25RIB	116	148	17.3	56.8
Progeny	PGY EXP1817	117	148	17.8	56.2
DEKALB	DKC67-44RIB	117	147	17.2	54.0
DEKALB	DKC69-16RIB	119	146	17.1	57.0
Dyna-Gro	D58VC65	118	138	16.5	56.1
Progeny	PGY 6116VT2P	116	134	18.9	54.0
Hubner Seed	H6867RCSS	116	131	17.0	56.8
Seed Consultants	SCS 1168YHR™	116	130	16.8	---
Progeny	PGY 6119VT2P	119	129	19.0	56.8
AXIS	66A22RIB	116	127	17.2	54.2
DEKALB	DKC66-75RIB	116	125	16.9	55.5
Pioneer	P1637AM	116	114	17.4	56.1
NK	NK1808-3111	118	110	17.8	53.9
Doebler's	RPM® 5818AM™	118	108	17.3	56.4
Doebler's	RPM® 5719AM™	117	86	17.4	55.3
Seed Consultants	SC 11AQ74™	117	82	18.6	54.4
	Maturity Average		130	17.6	55.4
	L.S.D. (0.05)		40	0.8	1.5
	C.V.		16	2.6	1.5
	Location Average		116	16.5	55.2

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

--- indicates missing data due to deer feeding.

Planted May 11, 2018. Harvested October 23-24, 2018.

Table 18. Two-year Average Corn Yields at Kentland Farm at BLACKSBURG, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu	Lodging ³ %
<108 Days Relative Maturity						
Mid-Atlantic	MA8091	107	148	16.8	55.2	3.8
Doebler's	RPM® 4417AMXT™	104	128	13.9	55.4	1.4
Mid-Atlantic	MA8092	107	105	15.3	54.5	4.3
Pioneer	P0339AM	103	99	15.5	54.2	2.4
Mid-Atlantic	MA8034	103	83	14.2	56.0	3.8
	Maturity Average		113	15.2	55.1	3.2
	L.S.D. (0.05)		20	0.6	1.0	2.8
	C.V.		13	3.1	1.3	
108-111 Days Relative Maturity						
Seed Consultants	SC 11AQ17™	111	142	16.0	55.1	2.4
Pioneer	P1197AM	111	139	16.4	56.1	4.5
Doebler's	RPM® 4917AM™	109	123	15.7	54.5	7.2
Progeny	PGY 7111VT2P	111	119	16.2	55.5	3.4
Mid-Atlantic	MA8107	110	99	15.3	54.2	8.2
	Maturity Average		124	15.9	55.1	5.1
	L.S.D. (0.05)		20	0.4	0.9	8.4
	C.V.		14	2.4	1.4	
112-115 Days Relative Maturity						
Progeny	PGY 8116SS	115	166	18.1	56.1	3.8
DEKALB	DKC65-20RIB	115	149	19.8	55.9	1.0
DEKALB	DKC64-35RIB	114	148	17.1	56.3	2.4
Seed Consultants	SCS 1158YHR™	115	138	18.4	54.8	0.5
Progeny	PGY 5115VT2P	115	136	17.5	55.2	3.4
DEKALB	DKC62-20RIB	112	115	15.8	55.1	2.4
	Maturity Average		142	17.8	55.5	2.2
	L.S.D. (0.05)		19	1.1	0.8	3.1
	C.V.		11	5.3	1.2	
>115 Days Relative Maturity						
DEKALB	DKC70-27RIB	120	171	19.3	54.0	6.3
Hubner Seed	H4890RC2P	117	163	18.3	55.5	4.8
DEKALB	DKC67-44RIB	117	158	18.0	55.0	1.0
Seed Consultants	SCS 1168YHR™	116	158	17.9	54.8	7.2
DEKALB	DKC66-75RIB	116	153	17.2	55.1	1.9
Progeny	PGY 6116VT2P	116	144	18.9	53.9	1.9
Pioneer	P1637AM	116	142	18.4	54.7	15.4
Doebler's	RPM® 5818AM™	118	140	17.2	56.2	1.9
Progeny	PGY 6119VT2P	119	138	19.7	55.2	2.9
NK	NK1808-3111	118	125	18.8	53.9	9.6
Seed Consultants	SC 11AQ74™	117	120	19.3	54.5	7.2

Table 18. Two-year Average Corn Yields at Kentland Farm at BLACKSBURG, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu	Lodging³ %
	Maturity Average		147	18.5	54.8	5.5
	L.S.D. (0.05)		20	0.7	0.9	6.5
	C.V.		12	3.3	1.3	
	Location Average		135	17.2	55.1	4.3

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

³ Percentage of plants lodged based on the average plant population for the site.

**Table 19. Three-year Average Corn Yields at Kentland Farm at
BLACKSBURG, VIRGINIA, 2016-2018 - Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Doebler's	RPM® 4417AMXT™	104	136	15.5	54.8
Pioneer	P0339AM	103	125	17.0	53.5
	Maturity Average		131	16.3	54.2
	L.S.D. (0.05)		34	1.3	1.8
	C.V.		15	4.6	1.4
108-111 Days Relative Maturity					
Pioneer	P1197AM	111	147	17.0	55.4
Seed Consultants	SC 11AQ17™	111	144	17.3	55.0
Doebler's	RPM® 4917AM™	109	130	16.9	53.3
	Maturity Average		140	17.1	54.6
	L.S.D. (0.05)		17	0.8	0.9
	C.V.		13	5.2	1.7
112-115 Days Relative Maturity					
Progeny	PGY 5115VT2P	115	144	18.0	54.1
>115 Days Relative Maturity					
Progeny	PGY 6116VT2P	116	153	19.5	53.8
Progeny	PGY 6119VT2P	119	147	20.0	55.1
Pioneer	P1637AM	116	139	18.7	55.1
	Maturity Average		146	19.4	54.7
	L.S.D. (0.05)		17	0.4	0.8
	C.V.		13	2.1	1.4
	Location Average		140	17.8	54.4

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

**Table 20. Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA
in 2018 - Virginia Tech Trials. *NOTE - yields were impacted by poor stands**

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Doebler's	RPM® 4417AMXT™	104	151	16.5	53.1
Mid-Atlantic	MA8091	107	148	18.6	51.0
Mid-Atlantic	MA8099	107	146	18.9	53.3
Mid-Atlantic	MA8074	107	137	17.1	52.7
Mid-Atlantic	MA8092	107	122	16.6	49.9
Mid-Atlantic	MA8063	106	112	16.1	53.9
Mid-Atlantic	MA8034	103	111	16.6	54.6
Augusta	A4858	107	107	18.3	52.5
Channel	205-63VT2PRIB	105	99	15.6	53.0
Pioneer	P0339AM	103	95	16.8	52.2
Channel	206-11VT2PRIB	106	91	16.6	52.1
	Maturity Average		120	17.1	52.6
	L.S.D. (0.05)		45	1.4	3.5
	C.V.		20	4.3	3.1
108-111 Days Relative Maturity					
Augusta	A4860	110	129	17.8	49.8
Channel	209-15VT2PRIB	109	125	17.2	53.6
Channel	210-79VT2PRIB	110	120	17.0	55.1
NK	N0968-3110	109	106	18.3	50.2
AXIS	60P29RIB	109	101	17.2	53.6
Seed Consultants	SC 11AQ17™	111	100	18.6	52.6
Mid-Atlantic	MA8107	110	100	19.8	52.0
Pioneer	P1197AM	111	100	17.7	53.4
Hubner Seed	H4563RC2P	111	90	17.8	53.2
Doebler's	RPM® 5018AMXT™	110	82	16.5	53.2
Seed Consultants	SCS 1087YHR™	108	81	16.1	52.9
Doebler's	RPM® 4919AM™	109	79	16.7	53.1
Progeny	PGY 6110VT2P	110	79	18.9	50.8
Doebler's	RPM® 4917AM™	109	77	17.1	52.5
Progeny	PGY 7111VT2P	111	75	17.4	53.1
Dyna-Gro	D50VC30	110	71	17.6	52.3
Augusta	A4959	109	61	17.1	51.5
	Maturity Average		93	17.6	52.5
	L.S.D. (0.05)		46	2.0	1.7
	C.V.		31	7.2	1.6
112-115 Days Relative Maturity					
Seed Consultants	SCS EXP114YHR™	114	188	18.5	51.7
Channel	215-75VT2PRIB	115	188	18.8	51.5
Progeny	PGY 4114V2P	114	182	18.4	53.9
Mid-Atlantic	MA8163	115	176	20.1	51.9
Doebler's	RPM® 5319AM™	113	173	18.0	54.3

**Table 20. Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA
in 2018 - Virginia Tech Trials. *NOTE - yields were impacted by poor stands**

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
Channel	213-19VT2PRIB	113	171	19.4	52.7
DEKALB	DKC65-95RIB	115	169	19.5	52.9
Progeny	PGY 5115VT2P	115	165	20.1	52.4
Seed Consultants	SCS 1158YHR™	115	162	19.8	51.2
Mid-Atlantic	MA8132	113	157	19.1	53.7
Hubner Seed	H4663RC2P	113	157	19.6	52.2
Seed Consultants	SC 11AQ15™	113	156	19.9	49.7
Doebler's	RPM® 5518AMXT™	115	155	19.3	52.2
Channel	215-60TRERIB	115	152	19.2	51.0
Progeny	PGY 8116SS	115	149	19.0	52.7
Channel	212-20VT2PRIB	112	143	18.0	53.4
DEKALB	DKC62-53RIB	112	142	17.7	52.5
DEKALB	DKC62-20RIB	112	142	18.5	50.4
AXIS	62A28RIB	112	141	18.5	52.2
DEKALB	DKC65-20RIB	115	137	20.7	53.1
AXIS	64K24RIB	114	134	19.6	52.6
Progeny	PGY EXP1814	114	133	19.0	52.7
Dyna-Gro	D52VC63	112	125	19.1	52.0
Augusta	A1165	115	125	18.4	53.1
DEKALB	DKC64-35RIB	114	112	18.0	54.1
AXIS	64D25RIB	114	108	20.1	51.0
Augusta	A4463	113	106	18.0	54.2
Augusta	A4465	115	105	18.7	51.9
Maturity Average			148	19.0	52.4
L.S.D. (0.05)			43	1.5	2.1
C.V.			18	4.9	2.3
>115 Days Relative Maturity					
DEKALB	DKC70-27RIB	120	210	21.2	52.9
DEKALB	DKC68-69RIB	118	195	20.9	52.1
AXIS	66A22RIB	116	189	19.5	50.6
DEKALB	DKC66-75RIB	116	188	18.7	53.1
Doebler's	RPM® 5818AM™	118	188	21.3	52.5
DEKALB	DKC69-16RIB	119	179	21.0	52.0
Hubner Seed	H4890RC2P	117	168	19.3	55.2
Seed Consultants	SCS 1168YHR™	116	165	18.7	52.5

**Table 20. Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA
in 2018 - Virginia Tech Trials. *NOTE - yields were impacted by poor stands**

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
Doebler's	RPM® 5719AM™	117	159	20.4	51.8
Progeny	PGY EXP1817	117	149	21.0	52.3
Pioneer	P1637AM	116	146	19.5	51.9
Progeny	PGY 6116VT2P	116	145	19.7	51.7
Channel	216-36DGV2PRIB	116	142	19.2	52.9
Seed Consultants	SC 11AQ74™	117	126	23.0	51.1
AXIS	66R25RIB	116	119	19.9	52.2
Progeny	PGY 6119VT2P	119	116	20.5	53.9
DEKALB	DKC67-44RIB	117	111	19.3	52.5
Progeny	PGY 7118VT2P	118	110	19.0	52.5
Hubner Seed	H6867RCSS	116	96	18.8	52.5
	Maturity Average		153	20.0	52.4
	L.S.D. (0.05)		57	1.7	3.6
	C.V.		23	5.3	3.9
	Location Average		133	18.7	52.5

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Planted May 8, 2018. Harvested October 4, 2018.

Table 21. Two-Year Average Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	127	16.0	51.0
Doebler's	RPM® 4417AMXT™	104	94	14.4	53.1
Mid-Atlantic	MA8092	107	86	13.9	49.9
Mid-Atlantic	MA8034	103	78	14.4	54.6
Pioneer	P0339AM	103	63	14.4	52.2
	Maturity Average		90	14.6	52.1
	L.S.D. (0.05)		34	1.2	4.2
	C.V.		26	6.6	2.5
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	99	15.6	53.6
Mid-Atlantic	MA8107	110	95	16.6	52.0
Seed Consultants	SC 11AQ17™	111	84	16.3	52.6
Pioneer	P1197AM	111	80	15.7	53.4
Doebler's	RPM® 4917AM™	109	80	15.3	52.5
Dyna-Gro	D50VC30	110	79	15.2	52.3
Progeny	PGY 7111VT2P	111	72	15.9	53.1
	Maturity Average		84	15.8	52.8
	L.S.D. (0.05)		27	0.9	1.6
	C.V.		29	5.7	1.6
112-115 Days Relative Maturity					
Channel	215-75VT2PRIB	115	130	16.1	51.5
Channel	213-19VT2PRIB	113	129	16.8	52.7
Progeny	PGY 5115VT2P	115	125	17.2	52.4
Seed Consultants	SCS 1158YHR™	115	119	16.6	51.2
Channel	212-20VT2PRIB	112	114	15.5	53.4
DEKALB	DKC65-20RIB	115	113	17.3	53.1
DEKALB	DKC62-20RIB	112	111	16.1	50.4
Progeny	PGY 8116SS	115	107	16.5	52.7
AXIS	64K24RIB	114	106	16.3	52.6
AXIS	64D25RIB	114	98	18.1	51.0
DEKALB	DKC64-35RIB	114	95	16.9	54.1
	Maturity Average		113	16.7	52.3
	L.S.D. (0.05)		27	1.0	2.4
	C.V.		21	5.6	2.5
>115 Days Relative Maturity					
DEKALB	DKC70-27RIB	120	149	17.4	52.9
Doebler's	RPM® 5818AM™	118	138	17.6	52.5
DEKALB	DKC66-75RIB	116	132	16.9	53.1
AXIS	66A22RIB	116	127	17.1	50.6
Hubner Seed	H4890RC2P	117	121	17.2	55.2
Seed Consultants	SCS 1168YHR™	116	111	15.6	52.5

Table 21. Two-Year Average Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA in 2017 and 2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
Pioneer	P1637AM	116	108	17.2	51.9
Progeny	PGY 6116VT2P	116	104	16.2	51.7
Progeny	PGY 6119VT2P	119	100	18.1	53.9
DEKALB	DKC67-44RIB	117	98	16.4	52.5
Seed Consultants	SC 11AQ74™	117	94	19.9	51.1
	Maturity Average		117	17.2	52.5
	L.S.D. (0.05)		28	1.4	4.9
	C.V.		21	7.7	4.9
	Location Average		105	16.4	52.4

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

Table 22. Three-Year Average Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA, 2016-2018 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Doebler's	RPM® 4417AMXT™	104	105	14.7	54.0
Pioneer	P0339AM	103	90	14.4	53.0
	Maturity Average		98	14.5	53.5
	L.S.D. (0.05)		29	0.8	3.3
	C.V.		24	4.8	2.2
108-111 Days Relative Maturity					
Pioneer	P1197AM	111	107	15.1	53.9
Seed Consultants	SC 11AQ17™	111	104	15.8	55.0
Doebler's	RPM® 4917AM™	109	100	15.0	53.8
	Maturity Average		104	15.3	54.2
	L.S.D. (0.05)		14	0.7	1.5
	C.V.		15	4.9	2.3
112-115 Days Relative Maturity					
Progeny	PGY 5115VT2P	115	138	16.3	54.2
AXIS	64K24RIB	114	126	15.6	53.4
AXIS	64D25RIB	114	116	17.2	53.1
	Maturity Average		127	16.4	53.6
	L.S.D. (0.05)		12	0.8	0.8
	C.V.		10	5.6	1.2
>115 Days Relative Maturity					
AXIS	66A22RIB	116	136	16.5	53.2
Pioneer	P1637AM	116	132	16.5	55.3
Progeny	PGY 6119VT2P	119	118	17.1	55.9
Progeny	PGY 6116VT2P	116	118	15.8	53.1
	Maturity Average		126	16.5	54.4
	L.S.D. (0.05)		22	1.0	1.8
	C.V.		18	6.9	2.6
	Location Average		116	15.8	54.0

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

**Table 23. Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2018 (Thanks to Mark Deavers)
- Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8092	107	147	16.5	55.3
Doebler's	RPM® 4417AMXT™	104	144	15.7	55.5
Mid-Atlantic	MA8034	103	129	15.6	54.3
Mid-Atlantic	MA8091	107	125	16.0	55.0
Mid-Atlantic	MA8099	107	121	14.4	55.6
Augusta	A4858	107	119	15.0	55.8
Pioneer	P0339AM	103	114	15.7	56.2
Mid-Atlantic	MA8074	107	110	16.4	55.7
Mid-Atlantic	MA8063	106	91	15.1	56.2
	Maturity Average		122	15.6	55.5
	L.S.D. (0.05)		52	3.2	3.0
	C.V.		25	12.1	3.0
108-111 Days Relative Maturity					
Mid-Atlantic	MA8107	110	138	17.2	54.7
Channel	209-15VT2PRIB	109	129	17.2	57.5
Seed Consultants	SC 11AQ17™	111	125	16.8	56.3
AXIS	60P29RIB	109	123	16.6	56.4
Pioneer	P1197AM	111	123	17.5	55.1
Seed Consultants	SCS 1087YHR™	108	122	16.6	56.3
Dyna-Gro	D50VC30	110	121	16.8	56.7
Hubner Seed	H4563RC2P	111	120	16.7	56.1
Channel	210-79VT2PRIB	110	116	16.7	55.9
Progeny	PGY 6110VT2P	110	111	15.2	55.9
Augusta	A4959	109	110	15.1	54.6
Progeny	PGY 7111VT2P	111	110	15.9	55.9
Doebler's	RPM® 4917AM™	109	105	17.5	56.6
NK	N0968-3110	109	105	16.3	56.1
Doebler's	RPM® 4919AM™	109	105	16.5	55.5
Doebler's	RPM® 5018AMXT™	110	105	15.5	55.8
	Maturity Average		117	16.5	56.0
	L.S.D. (0.05)		36	1.2	3.2
	C.V.		19	4.4	3.0
112-115 Days Relative Maturity					
Seed Consultants	SCS EXP114YHR™	114	166	16.6	55.1
Progeny	PGY 5115VT2P	115	165	16.8	54.9
Progeny	PGY 4114V2P	114	157	16.6	56.4
DEKALB	DKC65-95RIB	115	157	15.9	56.0
Channel	212-20VT2PRIB	112	156	15.3	56.5
Seed Consultants	SC 11AQ15™	113	153	15.0	56.1
DEKALB	DKC65-20RIB	115	148	15.5	55.3
Seed Consultants	SCS 1158YHR™	115	148	15.5	55.1

**Table 23. Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2018 (Thanks to Mark Deavers)
- Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
Channel	215-75VT2PRIB	115	147	15.4	56.2
Channel	213-19VT2PRIB	113	145	16.4	56.1
DEKALB	DKC62-53RIB	112	145	16.1	56.8
Channel	215-60TRERIB	115	143	15.5	55.5
NK	NK1573-3110	115	141	15.8	54.7
Hubner Seed	H4663RC2P	113	141	15.1	55.2
Doebler's	RPM® 5319AM™	113	140	17.6	56.1
DEKALB	DKC62-20RIB	112	134	15.8	55.3
Progeny	PGY 8116SS	115	133	16.7	56.1
AXIS	62A28RIB	112	133	15.7	55.8
Augusta	A5065	115	133	15.4	55.0
DEKALB	DKC64-35RIB	114	130	16.1	56.1
Augusta	A1165	115	129	16.5	56.8
AXIS	64K24RIB	114	129	16.5	56.8
Mid-Atlantic	MA8163	115	129	15.6	55.3
Doebler's	RPM® 5518AMXT™	115	128	16.1	55.6
Augusta	A4463	113	123	14.9	55.3
Progeny	PGY EXP1814	114	123	16.6	56.6
AXIS	64D25RIB	114	121	15.3	55.3
Dyna-Gro	D52VC63	112	121	13.4	54.3
Mid-Atlantic	MA8132	113	118	14.0	56.5
Maturity Average			139	15.8	55.7
L.S.D. (0.05)			50	2.4	2.7
C.V.			22	9.3	2.7
>115 Days Relative Maturity					
AXIS	66A22RIB	116	144	16.8	56.0
Hubner Seed	H6867RCSS	116	138	16.0	55.0
DEKALB	DKC69-16RIB	119	137	16.2	55.5
Hubner Seed	H4890RC2P	117	133	15.9	55.0
Progeny	PGY EXP1817	117	133	15.4	54.5
DEKALB	DKC68-69RIB	118	125	16.0	55.3
Progeny	PGY 6119VT2P	119	124	15.2	56.0
NK	NK1808-3111	118	124	16.9	56.0
DEKALB	DKC70-27RIB	120	123	16.5	55.2

**Table 23. Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2018 (Thanks to Mark Deavers)
- Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
DEKALB	DKC67-44RIB	117	112	16.7	55.8
Pioneer	P1637AM	116	111	15.0	53.8
Channel	216-36DGV2PRIB	116	109	15.4	55.8
AXIS	66R25RIB	116	108	17.1	54.7
Doebler's	RPM® 5818AM™	118	106	15.6	55.6
DEKALB	DKC66-75RIB	116	106	16.4	55.5
Doebler's	RPM® 5719AM™	117	106	15.5	55.4
Progeny	PGY 6116VT2P	116	103	15.7	56.8
Seed Consultants	SC 11AQ74™	117	96	15.0	56.0
Seed Consultants	SCS 1168YHR™	116	94	15.6	55.5
	Maturity Average		117	15.9	55.4
	L.S.D. (0.05)		42	1.7	2.6
	C.V.		23	6.6	2.7
	Location Average		126	15.9	55.7

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

³ Percentage of plants lodged based on the average plant population for the site.

Planted May 2, 2018. Harvested October 18, 2018. Population was 18,760 plants/acre.

Table 24. Two-Year Average Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2017 and 2018 (Thanks to Mark Deavers) - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co. ¹	Yield ² bu/A	Moist %	Test Wt. lb/bu	Lodging ³ %
<108 Days Relative Maturity						
Mid-Atlantic	MA8091	107	126	17.9	55.1	1.9
Doebler's	RPM® 4417AMXT™	104	126	15.1	55.9	3.7
Mid-Atlantic	MA8092	107	122	16.8	55.1	4.2
Mid-Atlantic	MA8034	103	117	14.7	54.3	2.8
Pioneer	P0339AM	103	109	15.4	55.7	3.2
	Maturity Average		120	16.0	55.2	3.1
	L.S.D. (0.05)		21	1.8	3.1	6.0
	C.V.		14	8.7	4.2	
108-111 Days Relative Maturity						
Dyna-Gro	D50VC30	110	137	17.0	56.5	4.2
Pioneer	P1197AM	111	129	18.0	55.3	2.3
Seed Consultants	SC 11AQ17™	111	123	17.1	56.3	1.9
Progeny	PGY 7111VT2P	111	123	17.6	55.5	1.9
Doebler's	RPM® 4917AM™	109	121	17.1	56.4	0.9
Mid-Atlantic	MA8107	110	106	15.1	57.0	3.2
	Maturity Average		123	17.0	56.2	2.4
	L.S.D. (0.05)		36	1.1	2.5	5.8
	C.V.		21	4.8	2.7	
112-115 Days Relative Maturity						
DEKALB	DKC65-20RIB	115	152	18.2	55.5	0.0
Seed Consultants	SCS 1158YHR™	115	146	18.6	54.3	5.6
Channel	213-19VT2PRIB	113	143	17.9	55.7	0.9
Channel	215-75VT2PRIB	115	136	17.9	54.9	1.4
Progeny	PGY 8116SS	115	131	18.8	55.5	0.0
Progeny	PGY 5115VT2P	115	131	18.1	54.8	0.0
Channel	212-20VT2PRIB	112	121	16.6	55.6	0.5
DEKALB	DKC64-35RIB	114	116	16.7	55.4	0.9
DEKALB	DKC62-20RIB	112	114	16.9	56.1	1.9
	Maturity Average		132	17.7	55.3	1.2
	L.S.D. (0.05)		26	1.6	1.8	5.8
	C.V.		17	8.2	2.7	
>115 Days Relative Maturity						
DEKALB	DKC70-27RIB	120	146	21.7	54.5	0.5
Hubner Seed	H4890RC2P	117	146	18.3	55.1	0.9
Progeny	PGY 6119VT2P	119	136	19.2	54.9	1.4
DEKALB	DKC67-44RIB	117	136	18.9	55.5	0.5
NK	NK1808-3111	118	129	19.8	54.0	0.0
Doebler's	RPM® 5818AM™	118	129	17.9	55.4	0.0
Pioneer	P1637AM	116	127	17.8	54.5	0.0
DEKALB	DKC66-75RIB	116	120	18.1	55.2	0.0
Progeny	PGY 6116VT2P	116	109	21.8	52.5	0.5

Table 24. Two-Year Average Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2017 and 2018 (Thanks to Mark Deavers) - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu	Lodging³ %
Seed Consultants	SC 11AQ74™	117	104	19.1	54.5	1.9
Seed Consultants	SCS 1168YHR™	116	101	17.5	55.3	0.0
	Maturity Average		126	19.1	54.7	0.5
	L.S.D. (0.05)		25	2.0	1.3	2.1
	C.V.		18	9.3	2.1	
	Location Average		126	17.8	55.2	1.5

¹ Days to maturity provided by company; differences in maturity rating methods may exist between companies.

² Reported at 15.5% moisture.

³ Percentage of plants lodged based on the average plant population for the site.