

VIRGINIA CORN HYBRID AND MANAGEMENT TRIALS IN 2019

Coordinators of Virginia Corn Hybrid Trials in 2019

Wade Thomason, Extension Specialist, School of Plant and Environmental Sciences, Virginia Tech
Nate Lawton, Research Specialist, School of Plant and Environmental Sciences, Virginia Tech
Elizabeth Rucker, Research Associate, School of Plant and Environmental Sciences, Virginia Tech

Other contributors:

Phillip Browning, Manager, Virginia Crop Improvement Association Foundation Seed Farm
Doug Horn, Extension Agent, Rockingham County
Karl Jones, Agricultural Manager Senior, Tidewater Agricultural Research and Extension Center
Ned Jones, Farm Manager, Southern Piedmont Agricultural Research and Extension Center
Greg Lillard, Farm Managers, Northern Piedmont Center
Brooks Saville, Agricultural Program Coordinator, College Farm, Virginia Tech

Companies Participating in the 2019 Corn Hybrid Trials

Company	Brand	Address
AgReliant Genetics	LG Seeds	1122 E 169 th Street, Westfield, IN 46074
Augusta Seed	Augusta Seed	PO Box 899, Verona, VA 24482
Bayer	Channel, DEKALB, Hubner	800 N Lindbergh Blvd., St Louis, MO 63167
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
Nutrien Ag Solutions	Dyna-Gro	396 Washington Street, Boydton, VA 23917
Seed Consultants, Inc.	Seed Consultants House, OH 43160	648 Miami Trace Rd, Washington Court
SeedKoz	MorCorn and Phoenix	1725 Windward Concourse Suite 410,
Syngenta Seeds	Alpharetta, GA 30005 NK Brand	4013 Fairmount Pike, Signal Mountain, TN 37377
Tidewater Seed LLC	AXIS MD 21601	29000 Information Lane Suite 302, Easton,

Appreciation is expressed to the Virginia Corn Check-Off Board for financial support of this research and the Virginia Extension corn program

Table of Contents

Background Information, Yield Differences, Understanding Relative Yield, and Choice of Hybrids.....	1
2019 Virginia Corn Hybrid Plot Information.....	2
Table 1. List of hybrids in the 2019 Virginia Corn Hybrid & Management Trials	3
Handy Bt Trait Table	6
Table 2. 2019 Relative yield of hybrids entered in three or more locations.....	8
Table 3. Two-year average relative yield of hybrids entered in three or more locations each year	11
Table 4. Three-year average relative yield of hybrids entered in three or more locations each year	12
Table 5. Yields at Holland, VA in 2019.....	13
Table 6. Two-year average yields at Holland, VA in 2018 and 2019	15
Table 7. Three-year average yields at Holland, VA in 2017, 2018, and 2019	16
Table 8. Yields at Mt. Holly, VA in 2019.....	17
Table 9. Two-year average yields at Mt. Holly, VA in 2018 and 2019	19
Table 10. Three-year average yields at Mt. Holly, VA in 2017, 2018, and 2019.....	20
Table 11. Yields at Mt. Holly, VA under irrigation in 2019	21
Table 12. Two-year average yields at Mt. Holly, VA under irrigation in 2018 and 2019.....	23
Table 13. Three-year average yields at Mt. Holly, VA under irrigation in 2017, 2018, and 2019	24
Table 14. Yields at Blackstone, VA in 2019.....	25
Table 15. Two-year average yields at Blackstone, VA in 2018 and 2019	27
Table 16. Three-year average yields at Blackstone, VA in 2017, 2018, and 2019.....	28
Table 17. Yields at Blacksburg, VA in 2019	29
Table 18. Two-year average yields at Blacksburg, VA in 2018 and 2019.....	31
Table 19. Three-year average yields at Blacksburg, VA in 2017, 2018, and 2019	32
Table 20. Yields at Orange, VA in 2019.....	33
Table 21. Two-year average yields at Orange, VA in 2018 and 2019	35
Table 22. Three-year average yields at Orange, VA in 2017, 2018, and 2019.....	36
Table 23. Yields at Shenandoah Valley in Rockingham County, VA in 2019.....	37
Table 24. Two-year average yields at Shenandoah Valley in Rockingham County, VA in 2018 and 2019	39
Table 25. Three-year average yields at Shenandoah Valley in Rockingham County, VA in 2017, 2018 and 2019.....	40

Background Information

Performance trials of commercial corn hybrids were conducted at six locations in Virginia in 2019. 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.

2019 Virginia Corn Hybrid Plot Information

(Rates are on a per acre basis.)

Blacksburg Whitethorne Farm

Planted: April 29, 2019 no-till
Harvested: September 18, 2019
Pesticide: 2 qt glyphosate; 1 pt atrazine 4L + 3 qt Acuron®; 5 lb Force® 3G at planting
Fertilizer: 30-30-60 + 1.5 T lime pre-plant incorporated; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 160 lb N as UAN side-dressed June 4, 2019
Plot Size: 2 rows 25' x 30" 4 replications
Previous crop: Corn
Soil Type: Hayter loam
Cooperator: Brooks Saville

Blackstone Southern Piedmont Agricultural Research & Extension Center

Planted: April 11, 2019 conventional tillage
Harvested: August 27-28, 2019
Population: 24,355 plants/acre
Pesticide: 2 qt Brawl II ATZ™ April 12, 2019
Fertilizer: 1000 lb 10-10-10 pre-plant incorporated April 11, 2019; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 80 lb N top-dressed using UAN May 9, 2019
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 11, 2019 no-till after soybeans
Harvested: August 27, 2019
Population: 24,225 plants/acre
Pesticide: 4 pt Bicep® + 2 pt Princep April 8, 2019;
Fertilizer: 423 lb 14-7-18 April 8, 2019; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 160 lb N + 20 lb S as 24-0-0-3 side-dressed May 22, 2019
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 17, 2019 no-till into soybean stubble
Harvested: September 3-4, 2019
Population: 25,790 plants/acre
Pesticide: 1.5 qt Acuron® + 1 qt Princep® preplant March 27, 2019; 5 lb Force® 3G at planting; 48 oz Acuron® + 8 oz dicamba post-plant May 9
Fertilizer: 60-50-50-5S pre-plant incorporated March 27, 2019; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 100 lb N May 23
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 17, 2019 no-till into soybean stubble
Harvested: September 10-11, 2019
Population: 29,850 plants/acre
Pesticide: 1.5 qt Acuron® + 1 qt Princep® preplant March 27, 2019; 5 lb Force® 3G at planting; 48 oz Acuron® + 8 oz dicamba post-plant May 9; 13.7 oz Trivapro fungicide aerially applied
Fertilizer: 60-50-50-5S pre-plant incorporated March 27, 2019; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 100 lb N May 22 + 70 lb N June 8
Irrigation: 7 inches
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: April 24, 2019 no-till into killed cereal
Harvested: September 11-12, 2019
Pesticide: 1.5 qt Acuron® + 2 qt glyphosate April 19, 2019 pre-plant; 5 lb Force® 3G at planting; 1.5 qt Acuron® + 1 pt atrazine May 10, 2019 post-plant
Fertilizer: 275 lb 30-80-60 April 29, 2019
Population: 25,275 plants/acre
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Starr silt loam
Previous crop: Soybeans
Cooperators: Greg Lillard

Shenandoah Valley (Thanks to Mark Deavers)

Planted: April 25, 2019 no-till into killed cover
Harvested: October 17, 2019
Population: 25,790 plants/acre
Pesticide: 2.25 qt Acuron® Flexi + 1.5 qt AAtrex® 4L + 1.5 qt Princep® 4L + 1.92 oz Kendo™ + 1.25 qt GlyStar® Plus + 0.25 qt dicamba DMA pre-plant; 5 lb Force® 3G at planting
Fertilizer: 4 tons poultry litter 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

Table 1. List of hybrids in the 2019 Virginia Corn Hybrid & Management Trials

Brand	Hybrid	DTM per Co.¹	Insecticide	Genetics
Augusta	A4858	107	Acceleron® 250	VT Double PRO
AXIS	59A25	109	Acceleron® 250	VT Double PRO
AXIS	63D28	113	Poncho® 250	VT Double PRO RIB Complete
AXIS	65D28	115	Poncho® 500/VOTiVO®	VT Double PRO
Channel	205-63VT2PRIB	105	Acceleron® 500	SmartStax RIB Complete
Channel	208-38VT2PRIB	108	Poncho® 500/VOTiVO®	AcreMax
Channel	209-15VT2PRIB	109	Acceleron® 250	VT Double PRO RIB Complete
Channel	211-66VT2PRIB	111	Poncho® 250/VOTiVO® EDC	VT Double PRO RIB Complete
Channel	212-90VT2PRIB	112	Poncho® 250/VOTiVO® EDC	VT Double PRO RIB Complete
Channel	213-72VT2PRIB	113	Poncho® 250 + NemaStrike™	VT Double PRO
Channel	215-60TRERIB	115	Acceleron® 250	VT Double PRO RIB Complete
Channel	217-76VT2PRIB	117	Poncho® 1250/VOTiVO®	Intrasect
DEKALB	DKC59-82RIB	109	Poncho® 250/VOTiVO® EDC	VT Double PRO RIB Complete
DEKALB	DKC60-88RIB	110	Poncho® 250/VOTiVO® EDC	VT Double PRO RIB Complete
DEKALB	DKC62-53RIB	112	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC63-57RIB	113	Acceleron® 250	VT Double PRO
DEKALB	DKC64-35RIB	114	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC65-95RIB	115	Acceleron® 250	VT Double PRO
DEKALB	DKC65-99RIB	115	Poncho® 250 + NemaStrike™	VT Double PRO
DEKALB	DKC66-18RIB	116	Poncho® 250 + NemaStrike™	Trecepta
DEKALB	DKC67-44RIB	117	Acceleron® 250	VT Double PRO RIB Complete
DEKALB	DKC69-16RIB	119	Poncho® 250/VOTiVO® EDC	VT Double PRO RIB Complete
DEKALB	DKC70-27RIB	120	Acceleron® 250	VT Double PRO RIB Complete
Dyna-Gro	D52VC63	112	Poncho® 250 + NemaStrike™	VT Double PRO
Dyna-Gro	D54VC14	114	Poncho® 500/VOTiVO®	Intrasect
Dyna-Gro	D55VC80	115	Poncho® 500/VOTiVO®	AcreMax
Dyna-Gro	D57VC17	117	Acceleron® 250	VT Double PRO
Dyna-Gro	D58VC65	118	Poncho® 500/VOTiVO®	Trecepta RIB Complete
Hubner Seed	H4563RC2P	111	Acceleron® 500/VOTiVO®500 EDC/B300	SmartStax
Hubner Seed	H4692RC2P	112	Acceleron® 500/VOTiVO®500 EDC/B300	SmartStax
Hubner Seed	H4663RC2P	113	Acceleron® 500/VOTiVO®500 EDC/B300	VT Double PRO
Hubner Seed	H4763RC2P	115	Acceleron® 500/VOTiVO®500 EDC/B300	VT Double PRO DroughtGuard

Table 1. List of hybrids in the 2019 Virginia Corn Hybrid & Management Trials

Brand	Hybrid	DTM per Co.¹	Insecticide	Genetics
Hubner Seed	H4890RC2P	117	Acceleron® 250	VT Double PRO
Hubner Seed	H4846RC2P	118	Acceleron® 500/VOTiVO®500 EDC/B300	VT Double PRO
LG Seeds	LG60C33VT2PRO	110	Poncho® 1250/VOTiVO®	Intrasect
LG Seeds	LG5590VT2RIB	110	Poncho® 1250/VOTiVO®	Intrasect
LG Seeds	LG62C02VT2RIB	112	Poncho® 250	VT Double PRO RIB Complete
LG Seeds	LG5643VT2RIB	114	Poncho® 250 + NemaStrike™	VT Double PRO
LG Seeds	LG64C30TRCRIB	114	Poncho® 250	VT Double PRO RIB Complete
LG Seeds	LG5650VT2RIB	115	Poncho® 250 + NemaStrike™	VT Double PRO
LG Seeds	LG66C32VT2PRO	116	CruiserMaxx® 500 + Avicta® Complete 500	Agrisure 3120 E-Z Refuge
Mid-Atlantic	MA8091	107	Avicta® Complete 1250 + Vibrance	Agrisure Viptera 3111
Mid-Atlantic	MA8074	107	Poncho® 500/VOTiVO®	VT Double PRO
Mid-Atlantic	MA8128	112	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO
Mid-Atlantic	MA8132	113	Acceleron® 250	VT Double PRO RIB Complete
Mid-Atlantic	MA8163	115	Acceleron® 1250	VT Double PRO
MorCorn	MC 4255	112	Poncho® 500/VOTiVO®	VT Double PRO RIB Complete
MorCorn	MC 4319	113	Poncho® 500/VOTiVO®	VT Double PRO RIB Complete
MorCorn	MC 4725	117	Poncho® 500/VOTiVO®	VT Double PRO RIB Complete
NK Brand	NK1205-3120	112	Acceleron® 250	VT Double PRO RIB Complete
NK Brand	NK1354-3220	113	Acceleron® 250	VT Double PRO RIB Complete
NK Brand	NK1573-3330	115	Poncho® 250/VOTiVO® EDC	VT Double PRO RIB Complete
NK Brand	NK1808-3111	118	Poncho® 500/VOTiVO®	VT Double PRO RIB Complete
Phoenix	6507 A3	115	Avicta® Complete 1250 + Vibrance	Agrisure Viptera 3220 E-Z Refuge
Phoenix	7402 A4	118	Avicta® Complete 1250 + Vibrance	Agrisure Viptera 3330 E-Z Refuge
Progeny	PGY EXP1712	112	CruiserMaxx® 500 + Avicta® Complete 500	Agrisure Viptera 3111
Progeny	PGY 9114VT2P	114	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO
Progeny	PGY EXP1913	115	Acceleron® 1250	VT Double PRO
Progeny	PGY EXP1815	115	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO
Progeny	PGY EXP1915	115	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO
Progeny	PGY 9117VT2P	117	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO
Seed Consultants	SCS 1087YHR™	108	CruiserMaxx® 250	Agrisure 3010 AND 3010A
Seed Consultants	SCS 110YHR™	108	Poncho® 250 + NemaStrike™	VT Double PRO
Seed Consultants	SCS 1139AM™	113	Poncho® 250 + NemaStrike™	VT Double PRO

Table 1. List of hybrids in the 2019 Virginia Corn Hybrid & Management Trials

Brand	Hybrid	DTM per Co.¹	Insecticide	Genetics
Seed Consultants	SCS 1158YHR™	115	Acceleron® 500/VOTiVO®500 EDC/B300	VT Double PRO
Seed Consultants	SC EX 115YHR™	117	CruiserMaxx® 500 + Avicta® Complete 500	Agrisure 3000GT and 3011A
Seed Consultants	SCS 1188AM™	118	Acceleron® 1250	VT Double PRO

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

Hybrids are arranged by Brand, then days to maturity.

The Handy Bt Trait Table

for U.S. Corn Production

The latest version of this document is always posted at

<https://www.texasinsects.org/bt-corn-trait-table.html>

For questions & corrections: Chris DiFonzo, Michigan State Univ., difonzo@msu.edu

Contributor: Pat Porter, Texas A&M University (southern version of the table)

Updated
November
2018

Most corn hybrids planted in the U.S. have transgenic traits for insect management. The Handy Bt Trait Table provides a helpful list of trait names (below) and details of trait packages (over) to make it easier to understand company seed guides, sales materials, and bag tags.

New for 2019

- ✓ Recent mergers resulted in name changes for several seed companies. While your local seed rep may have a new business card, the names of trait packages remain the same, listed alphabetically on page 2.
- ✓ *Bt Resistance* is arguably the most important issue facing growers, extension entomologists, and seed company agronomists. Problems continue to increase in regions where field failures were already found, and new cases of resistance are reported every season. To date, resistance is confirmed to all Bt toxins targeting western corn rootworm, particularly in the central corn belt. In the southern states, corn earworm and fall armyworm resistance is expanding, while Cry1F no longer controls western bean cutworm in the Great Lakes region. These species were once secondary to European corn borer in importance, but now they are of primary concern for many growers. It is critical to be up-to-date on resistance development in your local area so that you know the limitations of the Bt traits you plant.

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

Trade name for trait	Event	Protein(s) expressed	Primary Insect Targets + <i>Herbicide tolerance</i>
Agrisure CB/LL	Bt11	Cry1Ab + PAT	corn borer + <i>glufosinate</i>
Agrisure Duracade	5307	eCry3.1Ab	rootworm
Agrisure GT	GA21	EPSPS	<i>glyphosate</i>
Agrisure RW	MIR604	mCry3A	rootworm
Agrisure Viptera	MIR162	Vip3A	broad caterpillar control, except for corn borer
Enlist	DAS40278	<i>aad-1</i>	<i>2,4-D herbicide detoxification</i>
Herculex I (HXI) or CB	TC1507	Cry1Fa2 + PAT	corn borer + <i>glufosinate</i>
Herculex CRW	DAS-59122-7	Cry34Ab1/Cry35Ab1 + PAT	rootworm + <i>glufosinate</i>
(None – part of Qrome)	DP-4114	Cry1F + Cry34Ab1/Cry35Ab1 + PAT	corn borer + rootworm + <i>glufosinate</i>
Roundup Ready 2	NK603	EPSPS	<i>glyphosate</i>
Yieldgard Corn Borer	MON810	Cry1Ab	corn borer
Yieldgard Rootworm	MON863	Cry3Bb1	rootworm
Yieldgard VT Pro	MON89034	Cry1A.105 + Cry2Ab2	corn borer & several caterpillar species
Yieldgard VT Rootworm	MON88017	Cry3Bb1 + EPSPS	rootworm + <i>glyphosate</i>

Abbreviations used in the Trait Table

Herbicide traits

GT *glyphosate tolerant*

LL Liberty Link - *glufosinate-tolerant*

RR2 Roundup Ready 2, *glyphosate-tolerant*

Insect targets

BCW black cutworm

CEW corn earworm

CRW corn rootworm

ECB European corn borer

FAW fall armyworm

SB stalk borer

SCB sugarcane borer

SWCB southwestern corn borer

TAW true armyworm

WBC western bean cutworm

The Handy Bt Trait Table for U.S. Corn Production, updated November 2018

Trait packages in alphabetical order (acronym)	Bt protein(s) in the trait package	Marketed for control of:												Insects resistant to the combination of Bt proteins in the trait package	Herbicide trait		Non-Bt Refuge % (cornbelt)	
		B C W	C E W	E C B	F A W	S C B	S C B	S C B	W C B	T A W	W C C	W C W	W C W		GT RR2	LL		
1-AcreMax (AM)	Cry1Ab Cry1F	x		x	x	x	x	x	x					FAW WBC	x	x	5% in bag	
2-AcreMax CRW (AMRW)	Cry34/35Ab1												x	CRW	x	x	10% in bag	
3-AcreMax1 (AM1)	Cry1F Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW SWCB WBC CRW	x	x	10% in bag 20% ECB	
4-AcreMax Leptra (AML)	Cry1Ab Cry1F Vip3A	x	x	x	x	x	x	x	x	x	x				x	x	5% in bag	
5-AcreMax TRIssect (AMT)	Cry1Ab Cry1F mCry3A	x		x	x	x	x	x	x				x	FAW WBC CRW	x	x	10% in bag	
6-AcreMax Xtra (AMX)	Cry1Ab Cry1F Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW WBC CRW	x	x	10% in bag	
7-AcreMax Xtreme (AMXT)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW WBC CRW	x	x	5% in bag	
8-Agrisure 3010 and 3010A	Cry1Ab			x				x	x						x	x	20%	
9-Agrisure 3000GT and 3011A	Cry1Ab mCry3A			x				x	x				x	CRW	x	x	20%	
10-Agrisure Viptera 3110	Cry1Ab Vip3A	x	x	x	x	x	x	x	x	x	x				x	x	20%	
11-Agrisure Viptera 3111	Cry1Ab Vip3A mCry3A	x	x	x	x	x	x	x	x	x	x			CRW	x	x	20%	
12-Agrisure 3120 E-Z Refuge	Cry1Ab Cry1F	x		x	x	x	x	x	x					FAW WBC	x		5% in bag	
13-Agrisure 3122 EZ Refuge	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW WBC CRW	x	See bag tag for code	5% in bag	
14-Agrisure Viptera 3220 E-Z Refuge	Cry1Ab Cry1F Vip3A	x	x	x	x	x	x	x	x	x	x				x			5% in bag
15-Agrisure Viptera 3330 E-Z Refuge	Cry1Ab Vip3A Cry1A.105 + Cry2Ab2	x	x	x	x	x	x	x	x	x	x				x		EZ0 NO	5% in bag
16-Agrisure Duracade 5122 E-Z Refuge	Cry1Ab Cry1F mCry3A eCry3.1Ab	x		x	x	x	x	x	x				x	FAW WBC CRW	x	EZ1 YES	5% in bag	
17-Agrisure Duracade 5222 E-Z Refuge	Cry1Ab Cry1F Vip3A mCry3A eCry3.1Ab	x	x	x	x	x	x	x	x	x	x			CRW	x		5% in bag	
18-Herculex I (HXI)	Cry1F	x		x	x	x	x	x	x					FAW SWCB WBC	x	x	20%	
19-Herculex RW (HXRW)	Cry34/35Ab1												x	CRW	x	x	20%	
20-Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW SWCB WBC CRW	x	x	20%	
21-Intrasect (YHR)	Cry1Ab Cry1F	x		x	x	x	x	x	x					FAW WBC	x	x	5%	
22-Intrasect TRIssect (CYHR)	Cry1Ab Cry1F mCry3A	x		x	x	x	x	x	x				x	FAW WBC CRW	x	x	20%	
23-Intrasect Xtra (YXR)	Cry1Ab Cry1F Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW WBC CRW	x	x	20%	
24-Intrasect Xtreme (CYXR)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW WBC CRW	x	x	5%	
25-Leptra (VYHR)	Cry1Ab Cry1F Vip3A	x	x	x	x	x	x	x	x	x	x				x	x	5%	
26-Powercore ^a	Cry1A.105 Cry2Ab2	x	x	x	x	x	x	x	x					CEW WBC	x	x	^a 5%	
27-Powrcore Refuge Advncd ^b	Cry1F																^b 5% in bag	
28-QROME (Q)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x		x	x	x	x	x	x				x	FAW WBC CRW	x	x	5% in bag	
29-SmartStax ^a	Cry1A.105 Cry2Ab2	x	x	x	x	x	x	x	x				x	CEW WBC CRW	x	x	^a 5%	
30-Smartstx Refuge Advncd ^b	Cry1F Cry3Bb1																^b 5% in bag	
31-SmartStax RIB Complete ^b	Cry34/35Ab1																	
32-Trecepta ^a	Cry1A.105 Cry2Ab2	x	x	x	x	x	x	x	x	x	x				x		^a 5%	
33-Trecepta RIB Complete ^b	Vip3A																^b 5% in bag	
34-TRIssect (CHR)	Cry1F mCry3A	x		x	x	x	x	x	x				x	FAW SWCB WBC CRW	x	x	20%	
35-VT Double PRO ^a	Cry1A.105 Cry2Ab2		x	x	x	x	x	x	x					CEW	x		^a 5%	
36-VT Dble PRO RIBComplete ^b																	^b 5% in bag	
37-VT Triple PRO ^c	Cry1A.105 Cry2Ab2		x	x	x	x	x	x	x				x	CEW CRW	x		^c 20%	
38VT TriplePRORIBComplete ^d	Cry3Bb1																^d 10% in bag	
39Yieldgard Corn Borer(YGCB)	Cry1Ab			x				x	x						x		20%	
40YieldgardRootworm(YGRW)	Cry3Bb1												x	CRW	x		20%	
41----Yieldgard VT Triple	Cry1Ab Cry3Bb1			x				x	x				x	CRW	x		20%	

Table 2. 2019 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										
Channel	205-63VT2PRIB	105	---	---	93	98	---	96	---	96
108-111 Days Relative Maturity										
AXIS	59A25	109	---	103	114	107	---	103	108	107
Channel	209-15VT2PRIB	109	---	104	100	102	---	89	113	102
Channel	208-38VT2PRIB	108	---	---	96	95	---	112	---	101
Seed Consultants	SCS 1087YHR™	108	89	94	97	107	103	92	95	98
Hubner Seed	H4563RC2P	111	100	106	99	91	95	102	94	98
DEKALB	DKC59-82RIB	109	98	94	97	99	93	110	91	97
LG Seeds	LG5590VT2RIB	110	99	---	98	100	---	87	101	97
Channel	211-66VT2PRIB	111	---	90	108	93	---	94	95	96
DEKALB	DKC60-88RIB	110	82	92	91	97	93	87	99	93
Seed Consultants	SCS 110YHR™	108	92	92	102	99	86	79	89	91
LG Seeds	LG60C33VT2PRO	110	71	---	94	90	---	92	85	90
112-115 Days Relative Maturity										
DEKALB	DKC65-95RIB	115	116	123	109	100	93	114	109	108
Dyna-Gro	D55VC80	115	109	111	114	118	---	85	---	107
Hubner Seed	H4763RC2P	115	115	106	101	109	116	107	97	106
Seed Consultants	SCS 1158YHR™	115	82	113	102	106	98	103	113	106
Channel	215-60TRERIB	115	---	103	---	---	---	101	113	106
Progeny	PGY EXP1815	115	92	104	100	103	120	93	112	106
Progeny	PGY EXP1913	115	101	119	119	98	94	96	104	105
Progeny	PGY 9114VT2P	114	103	115	117	93	93	105	107	105
MorCorn	MC 4319	113	110	102	108	104	---	---	---	105
DEKALB	DKC64-35RIB	114	108	108	104	111	100	97	106	104
Dyna-Gro	D52VC63	112	---	---	107	95	---	110	---	104
DEKALB	DKC65-99RIB	115	107	101	98	109	104	110	100	104
DEKALB	DKC62-53RIB	112	105	95	112	98	100	114	102	103
Dyna-Gro	D54VC14	114	---	---	94	90	---	125	---	103
LG Seeds	LG64C30TRCRIB	114	107	---	107	108	---	98	98	103
Hubner Seed	H4663RC2P	113	84	86	103	105	102	113	105	102

Table 2. 2019 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
DEKALB	DKC63-57RIB	113	102	105	105	101	106	94	98	102
Channel	213-72VT2PRIB	113	---	92	104	104	---	97	108	101
LG Seeds	LG5643VT2RIB	114	108	---	94	110	---	104	94	100
NK Brand	NK1573-3330	115	108	---	101	95	103	---	102	100
AXIS	65D28	115	89	100	104	106	97	99	95	100
Progeny	PGY EXP1915	115	97	94	99	97	100	104	104	100
Seed Consultants	SCS 1139AM™	113	102	105	104	107	82	106	94	100
MorCorn	MC 4255	112	109	94	106	96	---	---	---	99
Phoenix	6507 A3	115	88	104	91	102	---	---	---	99
AXIS	63D28	113	79	108	81	98	111	98	94	98
LG Seeds	LG62C02VT2RIB	112	80	---	96	110	---	85	100	97
LG Seeds	LG5650VT2RIB	115	113	---	106	107	---	82	94	97
NK Brand	NK1354-3220	113	97	---	96	99	90	---	100	96
Hubner Seed	H4692RC2P	112	109	95	103	94	89	94	97	95
Progeny	PGY EXP1712	112	93	109	82	85	99	82	102	93
Channel	212-90VT2PRIB	112	---	102	93	96	---	74	92	91
NK Brand	NK1205-3120	112	---	---	93	88	83	---	88	88
>115 Days Relative Maturity										
DEKALB	DKC67-44RIB	117	118	120	93	105	117	114	100	108
DEKALB	DKC66-18RIB	116	108	92	112	104	111	124	103	108
DEKALB	DKC69-16RIB	119	90	112	117	92	107	117	98	107
Hubner Seed	H4890RC2P	117	109	89	92	109	102	126	113	105
Hubner Seed	H4846RC2P	118	103	93	112	97	109	108	110	105
LG Seeds	LG66C32VT2PRO	116	114	---	106	92	---	109	110	104
Progeny	PGY 9117VT2P	117	104	97	98	94	101	123	107	103
Seed Consultants	SC EX 115YHR™	117	94	94	98	100	104	118	105	103
Seed Consultants	SCS 1188AM™	118	125	95	101	89	108	94	112	100
DEKALB	DKC70-27RIB	120	117	91	93	102	102	98	97	97
MorCorn	MC 4725	117	104	85	100	100	---	---	---	95
Channel	217-76VT2PRIB	117	---	89	---	---	---	87	107	94
NK Brand	NK1808-3111	118	91	---	63	100	94	---	89	87

Table 2. 2019 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
Phoenix	7402 A4	118	95	86	54	100	---	---	---	80

* 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* (2018-2019) 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				
Channel	205-63VT2PRIB	105	6	93
108-111 Days Relative Maturity				
Channel	209-15VT2PRIB	109	10	102
Hubner Seed	H4563RC2P	111	14	97
Seed Consultants	SCS 1087YHR™	108	14	97
112-115 Days Relative Maturity				
Channel	215-60TRERIB	115	6	110
DEKALB	DKC65-95RIB	115	14	110
MorCorn	MC 4319	113	8	108
DEKALB	DKC64-35RIB	114	14	105
DEKALB	DKC62-53RIB	112	14	105
Dyna-Gro	D52VC63	112	10	104
Seed Consultants	SCS 1158YHR™	115	14	103
Hubner Seed	H4663RC2P	113	14	101
Phoenix	6507 A3	115	8	101
Progeny	PGY 9114VT2P	114	14	100
>115 Days Relative Maturity				
Hubner Seed	H4890RC2P	117	14	109
DEKALB	DKC67-44RIB	117	14	108
DEKALB	DKC69-16RIB	119	14	107
DEKALB	DKC70-27RIB	120	14	107
Progeny	PGY 9117VT2P	117	14	105
MorCorn	MC 4725	117	8	97
NK Brand	NK1808-3111	118	10	93
Phoenix	7402 A4	118	8	92

* 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* (2017-2019) 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
108-111 Days Relative Maturity				
Channel	209-15VT2PRIB	109	13	103
112-115 Days Relative Maturity				
MorCorn	MC 4319	113	11	107
Dyna-Gro	D52VC63	112	13	104
Seed Consultants	SCS 1158YHR™	115	19	103
DEKALB	DKC64-35RIB	114	21	103
>115 Days Relative Maturity				
DEKALB	DKC67-44RIB	117	21	110
DEKALB	DKC70-27RIB	120	21	109
Hubner Seed	H4890RC2P	117	21	109
MorCorn	MC 4725	117	11	98
NK Brand	NK1808-3111	118	15	95

* 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 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Augusta	A4858	107	156	20.3	52.5
108-111 Days Relative Maturity					
Hubner Seed	H4563RC2P	111	159	21.5	51.1
LG Seeds	LG5590VT2RIB	110	157	20.0	51.4
DEKALB	DKC59-82RIB	109	155	21.5	50.2
Seed Consultants	SCS 110YHR™	108	145	20.0	53.9
Seed Consultants	SCS 1087YHR™	108	141	19.8	52.6
DEKALB	DKC60-88RIB	110	131	20.4	51.9
LG Seeds	LG60C33VT2PRO	110	112	19.6	52.6
	Maturity Average		143	20.4	51.9
	L.S.D. (0.05)		32	1.1	0.9
	C.V.		14	3.6	1.1
112-115 Days Relative Maturity					
DEKALB	DKC65-95RIB	115	184	22.8	52.0
Hubner Seed	H4763RC2P	115	182	22.3	51.7
LG Seeds	LG5650VT2RIB	115	179	22.4	52.3
MorCorn	MC 4319	113	174	22.1	51.1
Hubner Seed	H4692RC2P	112	173	21.0	50.7
Dyna-Gro	D55VC80	115	173	22.3	51.4
MorCorn	MC 4255	112	173	20.0	51.4
DEKALB	DKC64-35RIB	114	172	20.4	52.6
LG Seeds	LG5643VT2RIB	114	172	21.3	52.1
NK Brand	NK1573-3330	115	171	23.0	51.4
LG Seeds	LG64C30TRCRIB	114	170	22.5	52.5
DEKALB	DKC65-99RIB	115	169	21.3	51.8
DEKALB	DKC62-53RIB	112	166	21.7	51.2
Progeny	PGY 9114VT2P	114	163	21.3	52.0
Seed Consultants	SCS 1139AM™	113	162	20.1	53.6
DEKALB	DKC63-57RIB	113	161	20.6	52.5
Progeny	PGY EXP1913	115	160	22.3	51.5
Progeny	PGY EXP1915	115	154	22.9	52.6
NK Brand	NK1354-3220	113	153	21.2	50.8
Progeny	PGY EXP1712	112	147	22.2	50.1
Progeny	PGY EXP1815	115	146	21.0	52.2
AXIS	65D28	115	141	20.7	51.2
Phoenix	6507 A3	115	139	22.8	50.5
Hubner Seed	H4663RC2P	113	132	21.7	51.3
Seed Consultants	SCS 1158YHR™	115	130	21.3	52.4
LG Seeds	LG62C02VT2RIB	112	127	20.2	53.1
AXIS	63D28	113	125	20.1	51.8
	Maturity Average	115	159	21.5	51.8

Table 5. Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
	L.S.D. (0.05)		35	1.5	1.6
	C.V.		15	4.7	2.1
>115 Days Relative Maturity					
Seed Consultants	SCS 1188AM™	118	198	23.5	51.6
DEKALB	DKC67-44RIB	117	188	21.9	51.6
DEKALB	DKC70-27RIB	120	185	23.7	50.7
LG Seeds	LG66C32VT2PRO	116	181	21.9	51.2
Hubner Seed	H4890RC2P	117	173	22.4	51.9
DEKALB	DKC66-18RIB	116	171	22.0	51.8
MorCorn	MC 4725	117	165	23.1	51.9
Progeny	PGY 9117VT2P	117	165	22.5	52.0
Hubner Seed	H4846RC2P	118	164	22.0	52.9
Phoenix	7402 A4	118	150	25.1	50.3
Seed Consultants	SC EX 115YHR™	117	149	23.0	51.8
Dyna-Gro	D57VC17	117	145	21.4	52.8
NK Brand	NK1808-3111	118	144	24.3	49.9
Dyna-Gro	D58VC65	118	143	21.7	52.2
DEKALB	DKC69-16RIB	119	143	22.0	52.6
	Maturity Average		164	22.7	51.7
	L.S.D. (0.05)		29	1.6	1.4
	C.V.		12	4.7	1.8
	Location Average		158	21.7	51.8

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

²Reported at 15.5% moisture.

Planted April 11, 2019. Harvested August 27, 2019. Population was 24,225 plants/acre.

Table 6. Two-year Average Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2018 and 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Augusta	A4858	107	175	18.9	52.7
108-111 Days Relative Maturity					
Seed Consultants	SCS 1087YHR™	108	161	18.3	53.2
Hubner Seed	H4563RC2P	111	161	20.2	51.5
	Maturity Average		161	19.2	52.3
	L.S.D. (0.05)		43	1.2	0.5
	C.V.		18	4.3	0.6
112-115 Days Relative Maturity					
MorCorn	MC 4319	113	184	21.1	51.7
DEKALB	DKC65-95RIB	115	177	21.1	52.2
DEKALB	DKC64-35RIB	114	173	19.3	52.9
Progeny	PGY 9114VT2P	114	170	19.9	52.4
DEKALB	DKC62-53RIB	112	166	20.3	51.1
Phoenix	6507 A3	115	148	21.7	50.7
Seed Consultants	SCS 1158YHR™	115	143	19.9	52.5
Hubner Seed	H4663RC2P	113	139	20.7	51.3
	Maturity Average		162	20.5	51.8
	L.S.D. (0.05)		27	1.0	1.2
	C.V.		16	4.7	2.0
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	198	20.8	52.0
DEKALB	DKC70-27RIB	120	191	22.4	51.3
MorCorn	MC 4725	117	173	21.3	52.9
Progeny	PGY 9117VT2P	117	172	21.4	52.3
Hubner Seed	H4890RC2P	117	169	21.5	52.3
DEKALB	DKC69-16RIB	119	164	20.7	51.9
NK Brand	NK1808-3111	118	160	23.0	50.2
Phoenix	7402 A4	118	158	23.1	50.5
Dyna-Gro	D58VC65	118	154	20.5	52.6
	Maturity Average		171	21.6	51.8
	L.S.D. (0.05)		21	1.1	1.0
	C.V.		12	5.1	1.7
	Location Average		167	20.8	51.9

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, 2017-2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
112-115 Days Relative Maturity					
DEKALB	DKC64-35RIB	114	166	18.6	53.7
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	185	19.9	52.8
DEKALB	DKC70-27RIB	120	180	21.5	52.2
Hubner Seed	H4890RC2P	117	166	20.6	52.9
NK Brand	NK1808-3111	118	156	22.3	50.9
	Maturity Average		172	21.1	52.2
	L.S.D. (0.05)		14	0.9	0.8
	C.V.		9	4.9	1.7
	Location Average		170	20.6	52.5

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

²Reported at 15.5% moisture.

Table 8. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Channel	205-63VT2PRIB	105	148	13.8	54.9
108-111 Days Relative Maturity					
AXIS	59A25	109	180	17.8	55.1
Channel	211-66VT2PRIB	111	172	15.7	54.7
Seed Consultants	SCS 110YHR™	108	162	16.8	57.3
Channel	209-15VT2PRIB	109	158	15.9	54.2
Hubner Seed	H4563RC2P	111	157	16.5	55.2
LG Seeds	LG5590VT2RIB	110	156	14.1	53.9
Seed Consultants	SCS 1087YHR™	108	155	15.3	54.9
DEKALB	DKC59-82RIB	109	154	15.1	53.1
Channel	208-38VT2PRIB	108	153	14.5	53.7
LG Seeds	LG60C33VT2PRO	110	149	15.8	53.8
DEKALB	DKC60-88RIB	110	145	14.2	54.5
	Maturity Average		158	15.6	54.6
	L.S.D. (0.05)		27	2.2	1.0
	C.V.		11	8.7	1.1
112-115 Days Relative Maturity					
Progeny	PGY EXP1913	115	189	17.7	55.2
Progeny	PGY 9114VT2P	114	185	18.9	54.4
Dyna-Gro	D55VC80	115	181	16.9	55.3
DEKALB	DKC62-53RIB	112	178	16.8	55.7
DEKALB	DKC65-95RIB	115	174	17.4	56.0
MorCorn	MC 4319	113	172	17.0	55.2
LG Seeds	LG64C30TRCRIB	114	170	17.8	55.9
Dyna-Gro	D52VC63	112	170	16.4	54.7
MorCorn	MC 4255	112	169	17.0	53.9
LG Seeds	LG5650VT2RIB	115	169	16.4	56.8
DEKALB	DKC63-57RIB	113	166	15.6	54.9
AXIS	65D28	115	166	15.6	55.4
Channel	213-72VT2PRIB	113	166	16.7	54.6
DEKALB	DKC64-35RIB	114	165	15.3	55.4
Seed Consultants	SCS 1139AM™	113	165	16.7	56.8
Hubner Seed	H4692RC2P	112	164	16.2	53.9
Hubner Seed	H4663RC2P	113	163	16.3	54.1
Seed Consultants	SCS 1158YHR™	115	162	18.3	55.2
Hubner Seed	H4763RC2P	115	161	15.9	54.7
NK Brand	NK1573-3330	115	160	17.2	54.1
Progeny	PGY EXP1815	115	160	17.4	56.0
Progeny	PGY EXP1915	115	158	17.6	56.1
DEKALB	DKC65-99RIB	115	156	15.2	56.0
LG Seeds	LG62C02VT2RIB	112	153	15.4	56.2

Table 8. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
NK Brand	NK1354-3220	113	152	16.4	53.4
LG Seeds	LG5643VT2RIB	114	149	15.4	54.4
Dyna-Gro	D54VC14	114	149	14.3	55.6
NK Brand	NK1205-3120	112	148	17.2	54.5
Channel	212-90VT2PRIB	112	147	15.8	55.9
Phoenix	6507 A3	115	144	16.5	53.7
Progeny	PGY EXP1712	112	130	15.2	55.9
AXIS	63D28	113	128	15.9	53.6
	Maturity Average		162	16.5	55.1
	L.S.D. (0.05)		33	1.9	1.7
	C.V.		13	7.2	1.8
>115 Days Relative Maturity					
DEKALB	DKC69-16RIB	119	185	19.0	55.7
Hubner Seed	H4846RC2P	118	179	20.0	55.4
DEKALB	DKC66-18RIB	116	178	17.4	55.2
LG Seeds	LG66C32VT2PRO	116	168	18.1	56.3
Seed Consultants	SCS 1188AM™	118	160	18.7	56.0
MorCorn	MC 4725	117	160	19.0	55.6
Seed Consultants	SC EX 115YHR™	117	156	18.9	56.5
Progeny	PGY 9117VT2P	117	155	18.7	56.8
DEKALB	DKC67-44RIB	117	148	16.7	56.0
DEKALB	DKC70-27RIB	120	147	19.3	54.6
Hubner Seed	H4890RC2P	117	146	18.9	55.1
NK Brand	NK1808-3111	118	100	18.8	54.0
Phoenix	7402 A4	118	86	16.6	52.0
	Maturity Average		151	18.5	55.3
	L.S.D. (0.05)		40	2.2	2.1
	C.V.		15	6.7	2.0
	Location Average		158	16.7	55.0

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

² Reported at 15.5% moisture.

Planted April 17, 2019. Harvested September 3-4, 2019. Population was 25,790 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 2018 and 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Channel	205-63VT2PRIB	105	145	16.5	53.7
108-111 Days Relative Maturity					
Hubner Seed	H4563RC2P	111	162	18.1	53.4
Channel	209-15VT2PRIB	109	155	17.4	52.9
Seed Consultants	SCS 1087YHR™	108	145	16.6	53.6
	Maturity Average		154	17.4	53.3
	L.S.D. (0.05)		26	0.6	1.4
	C.V.		13	2.8	1.8
112-115 Days Relative Maturity					
DEKALB	DKC62-53RIB	112	172	19.4	54.0
Dyna-Gro	D52VC63	112	170	18.3	52.9
DEKALB	DKC65-95RIB	115	170	20.7	53.9
MorCorn	MC 4319	113	169	19.2	52.2
DEKALB	DKC64-35RIB	114	163	18.1	54.3
Seed Consultants	SCS 1158YHR™	115	162	19.0	53.4
Hubner Seed	H4663RC2P	113	154	18.5	53.2
Progeny	PGY 9114VT2P	114	150	19.1	53.9
Phoenix	6507 A3	115	149	19.7	52.1
	Maturity Average		162	19.1	53.3
	L.S.D. (0.05)		18	1.1	2.1
	C.V.		10	5.1	3.2
>115 Days Relative Maturity					
DEKALB	DKC69-16RIB	119	169	20.2	54.5
Progeny	PGY 9117VT2P	117	159	20.5	54.4
Hubner Seed	H4890RC2P	117	155	20.1	53.0
DEKALB	DKC67-44RIB	117	148	18.1	55.2
DEKALB	DKC70-27RIB	120	140	20.2	54.1
MorCorn	MC 4725	117	132	19.9	55.3
NK Brand	NK1808-3111	118	112	20.9	52.9
Phoenix	7402 A4	118	106	20.1	52.6
	Maturity Average		140	20.0	54.0
	L.S.D. (0.05)		22	1.4	2.5
	C.V.		13	5.8	3.4
	Location Average		152	19.1	53.6

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, 2017-2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	155	17.8	53.4
112-115 Days Relative Maturity					
Dyna-Gro	D52VC63	112	167	18.6	53.2
MorCorn	MC 4319	113	163	19.4	53.8
DEKALB	DKC64-35RIB	114	156	18.2	54.7
Seed Consultants	SCS 1158YHR™	115	153	19.1	53.7
	Maturity Average		160	18.8	53.8
	L.S.D. (0.05)		15	0.7	1.2
	C.V.		10	4.4	2.1
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	162	19.0	54.9
Hubner Seed	H4890RC2P	117	157	20.6	53.8
DEKALB	DKC70-27RIB	120	151	20.6	54.1
MorCorn	MC 4725	117	131	19.8	55.1
NK Brand	NK1808-3111	118	120	21.5	52.5
	Maturity Average		144	20.3	54.1
	L.S.D. (0.05)		15	1.1	0.7
	C.V.		12	5.7	1.3
	Location Average		151	19.5	53.9

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

²Reported at 15.5% moisture.

Table 11. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Channel	205-63VT2PRIB	105	221	15.5	55.8
108-111 Days Relative Maturity					
AXIS	59A25	109	240	17.9	55.5
Seed Consultants	SCS 1087YHR™	108	239	15.6	55.5
Channel	209-15VT2PRIB	109	230	18.3	54.2
LG Seeds	LG5590VT2RIB	110	225	16.0	54.9
Seed Consultants	SCS 110YHR™	108	223	16.4	58.0
DEKALB	DKC59-82RIB	109	222	16.0	54.0
DEKALB	DKC60-88RIB	110	219	16.4	55.0
Channel	208-38VT2PRIB	108	214	15.0	53.8
Channel	211-66VT2PRIB	111	209	16.5	55.0
Hubner Seed	H4563RC2P	111	205	18.4	55.1
LG Seeds	LG60C33VT2PRO	110	202	17.3	54.4
	Maturity Average		221	16.7	55.0
	L.S.D. (0.05)		23	1.0	1.1
	C.V.		7	4.0	1.3
112-115 Days Relative Maturity					
Dyna-Gro	D55VC80	115	266	17.6	55.3
DEKALB	DKC64-35RIB	114	250	16.7	56.3
LG Seeds	LG5643VT2RIB	114	248	17.4	54.4
LG Seeds	LG62C02VT2RIB	112	246	16.8	55.1
Hubner Seed	H4763RC2P	115	245	18.8	54.7
DEKALB	DKC65-99RIB	115	245	17.8	55.5
LG Seeds	LG64C30TRCRIB	114	243	18.3	54.6
LG Seeds	LG5650VT2RIB	115	241	17.9	56.9
Seed Consultants	SCS 1139AM™	113	241	17.3	56.6
AXIS	65D28	115	239	16.4	55.5
Seed Consultants	SCS 1158YHR™	115	237	18.7	54.7
Hubner Seed	H4663RC2P	113	236	18.0	53.4
Channel	213-72VT2PRIB	113	234	16.8	55.2
MorCorn	MC 4319	113	233	18.8	55.4
Progeny	PGY EXP1815	115	232	17.9	55.6
Phoenix	6507 A3	115	228	19.4	52.7
DEKALB	DKC63-57RIB	113	228	16.9	55.9
DEKALB	DKC65-95RIB	115	225	18.7	55.5
NK Brand	NK1354-3220	113	222	18.2	54.3
AXIS	63D28	113	220	17.1	55.8
Progeny	PGY EXP1913	115	220	16.9	55.5
DEKALB	DKC62-53RIB	112	219	17.4	54.7
Progeny	PGY EXP1915	115	219	18.7	57.1
MorCorn	MC 4255	112	216	17.5	55.0

Table 11. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
Channel	212-90VT2PRIB	112	215	17.9	55.9
NK Brand	NK1573-3330	115	214	17.3	55.0
Dyna-Gro	D52VC63	112	213	18.2	55.0
Hubner Seed	H4692RC2P	112	211	16.8	54.0
Progeny	PGY 9114VT2P	114	208	17.5	55.7
Dyna-Gro	D54VC14	114	203	17.4	56.3
NK Brand	NK1205-3120	112	197	16.3	54.8
Progeny	PGY EXP1712	112	190	17.0	55.0
	Maturity Average		228	17.6	55.2
	L.S.D. (0.05)		29	1.4	0.9
	C.V.		9	5.5	1.0
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	245	19.7	55.7
DEKALB	DKC67-44RIB	117	236	19.0	55.1
DEKALB	DKC66-18RIB	116	234	17.7	55.2
DEKALB	DKC70-27RIB	120	229	19.3	54.9
NK Brand	NK1808-3111	118	226	19.3	53.5
Phoenix	7402 A4	118	225	19.9	53.1
MorCorn	MC 4725	117	225	18.1	55.6
Seed Consultants	SC EX 115YHR™	117	225	18.7	56.6
Hubner Seed	H4846RC2P	118	217	18.5	56.2
Progeny	PGY 9117VT2P	117	210	18.4	56.3
LG Seeds	LG66C32VT2PRO	116	207	18.5	55.2
DEKALB	DKC69-16RIB	119	206	18.4	56.5
Seed Consultants	SCS 1188AM™	118	201	19.9	55.6
	Maturity Average		222	18.9	55.3
	L.S.D. (0.05)		25	1.1	0.9
	C.V.		8	3.8	1.0
	Location Average		225	17.7	55.2

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

² Reported at 15.5% moisture.

Planted April 17, 2019. Harvested September 10-11, 2019. Population was 29,850 plants/acre.

Table 12. Two-year Average Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2018 and 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Channel	205-63VT2PRIB	105	175	15.3	55.4
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	200	17.3	54.8
Seed Consultants	SCS 1087YHR™	108	192	15.4	54.5
Hubner Seed	H4563RC2P	111	177	17.5	55.3
	Maturity Average		190	16.7	54.9
	L.S.D. (0.05)		27	0.6	2.0
	C.V.		12	3.2	3.1
112-115 Days Relative Maturity					
Hubner Seed	H4663RC2P	113	205	17.2	53.6
Phoenix	6507 A3	115	199	18.1	52.4
DEKALB	DKC64-35RIB	114	199	18.2	55.5
DEKALB	DKC62-53RIB	112	197	16.7	54.6
MorCorn	MC 4319	113	191	18.0	55.6
Seed Consultants	SCS 1158YHR™	115	188	18.4	54.2
DEKALB	DKC65-95RIB	115	187	17.4	56.0
Progeny	PGY 9114VT2P	114	178	17.3	55.8
Dyna-Gro	D52VC63	112	177	16.9	54.6
	Maturity Average		191	17.6	54.7
	L.S.D. (0.05)		17	2.2	1.1
	C.V.		9	11.9	1.8
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	201	18.5	56.1
DEKALB	DKC67-44RIB	117	189	17.4	55.3
DEKALB	DKC70-27RIB	120	184	18.2	55.3
Phoenix	7402 A4	118	181	20.0	53.2
NK Brand	NK1808-3111	118	179	19.7	52.9
MorCorn	MC 4725	117	177	17.7	55.6
DEKALB	DKC69-16RIB	119	176	18.2	56.3
Progeny	PGY 9117VT2P	117	167	17.7	56.1
	Maturity Average		182	18.4	55.1
	L.S.D. (0.05)		16	0.7	0.7
	C.V.		8	3.8	1.1
	Location Average		187	17.7	54.9

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, 2017-2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	221	17.2	54.3
112-115 Days Relative Maturity					
DEKALB	DKC64-35RIB	114	207	17.9	55.5
Seed Consultants	SCS 1158YHR™	115	201	18.5	54.3
MorCorn	MC 4319	113	200	18.2	55.5
Dyna-Gro	D52VC63	112	186	17.4	54.3
	Maturity Average		199	18.0	54.9
	L.S.D. (0.05)		15	2.0	1.0
	C.V.		9	12.6	1.8
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	211	19.0	55.5
DEKALB	DKC67-44RIB	117	202	18.1	55.2
DEKALB	DKC70-27RIB	120	201	18.6	55.0
MorCorn	MC 4725	117	195	18.2	55.2
NK Brand	NK1808-3111	118	188	19.5	52.8
	Maturity Average		199	18.7	54.7
	L.S.D. (0.05)		12	0.5	0.6
	C.V.		7	3.4	1.3
	Location Average		201	18.3	54.7

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

²Reported at 15.5% moisture.

Table 14. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
108-111 Days Relative Maturity					
Hubner Seed	H4563RC2P	111	156	18.3	52.8
Channel	209-15VT2PRIB	109	153	16.8	53.0
AXIS	59A25	109	152	19.1	53.2
DEKALB	DKC59-82RIB	109	139	15.8	51.5
Seed Consultants	SCS 1087YHR™	108	139	15.8	53.9
Seed Consultants	SCS 110YHR™	108	136	18.1	55.6
DEKALB	DKC60-88RIB	110	136	15.7	53.0
Channel	211-66VT2PRIB	111	132	16.5	52.4
	Maturity Average		143	17.0	53.2
	L.S.D. (0.05)		26	1.0	0.7
	C.V.		12	3.8	0.9
112-115 Days Relative Maturity					
DEKALB	DKC65-95RIB	115	182	19.1	54.2
Progeny	PGY EXP1913	115	176	17.9	54.0
Progeny	PGY 9114VT2P	114	169	18.2	54.1
Seed Consultants	SCS 1158YHR™	115	167	18.4	53.6
Dyna-Gro	D55VC80	115	163	18.0	53.5
Progeny	PGY EXP1712	112	161	18.0	52.7
AXIS	63D28	113	159	16.9	53.2
DEKALB	DKC64-35RIB	114	159	17.0	54.1
Hubner Seed	H4763RC2P	115	156	17.6	53.4
DEKALB	DKC63-57RIB	113	156	17.1	53.5
Seed Consultants	SCS 1139AM™	113	155	17.7	54.7
Progeny	PGY EXP1815	115	153	18.9	53.1
Phoenix	6507 A3	115	153	19.6	50.9
Channel	215-60TRERIB	115	152	17.9	52.3
Channel	212-90VT2PRIB	112	151	18.0	53.5
MorCorn	MC 4319	113	150	18.9	53.4
DEKALB	DKC65-99RIB	115	148	17.5	53.6
AXIS	65D28	115	147	15.7	53.3
DEKALB	DKC62-53RIB	112	141	18.2	52.3
Hubner Seed	H4692RC2P	112	140	16.9	52.1
MorCorn	MC 4255	112	139	17.5	53.0
Progeny	PGY EXP1915	115	139	19.6	55.2
Channel	213-72VT2PRIB	113	136	17.5	52.6
Hubner Seed	H4663RC2P	113	128	17.7	51.8
	Maturity Average		153	17.9	53.3
	L.S.D. (0.05)		26	1.4	0.9
	C.V.		11	5.1	1.1
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	176	19.0	54.0

Table 14. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
Dyna-Gro	D58VC65	118	170	19.5	53.6
DEKALB	DKC69-16RIB	119	165	21.9	52.6
Progeny	PGY 9117VT2P	117	144	20.7	53.7
Dyna-Gro	D57VC17	117	144	17.3	54.3
Seed Consultants	SCS 1188AM™	118	140	21.1	53.1
Seed Consultants	SC EX 115YHR™	117	138	19.0	53.7
Hubner Seed	H4846RC2P	118	137	19.3	55.2
DEKALB	DKC66-18RIB	116	135	16.8	53.8
DEKALB	DKC70-27RIB	120	135	20.7	52.3
Channel	217-76VT2PRIB	117	131	17.9	53.8
Hubner Seed	H4890RC2P	117	131	19.8	53.6
Phoenix	7402 A4	118	127	20.3	51.5
MorCorn	MC 4725	117	125	22.0	53.6
	Maturity Average		143	19.6	53.5
	L.S.D. (0.05)		23	1.2	0.9
	C.V.		10	4.0	1.0
	Location Average		148	18.3	53.3

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

² Reported at 15.5% moisture.

Planted April 11, 2019. Harvested August 27-28, 2019. Population was 24,355 plants/acre.

Table 15. Two-year Average Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2018 and 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
108-111 Days Relative Maturity					
Hubner Seed	H4563RC2P	111	180	18.7	53.0
Channel	209-15VT2PRIB	109	157	17.3	53.2
Seed Consultants	SCS 1087YHR™	108	146	16.5	54.4
	Maturity Average		161	17.5	53.5
	L.S.D. (0.05)		27	0.7	0.8
	C.V.		15	3.5	1.2
112-115 Days Relative Maturity					
DEKALB	DKC65-95RIB	115	180	19.4	54.2
Channel	215-60TRERIB	115	166	18.2	52.4
DEKALB	DKC64-35RIB	114	162	17.7	54.2
MorCorn	MC 4319	113	161	19.4	53.8
Phoenix	6507 A3	115	160	19.9	50.8
DEKALB	DKC62-53RIB	112	154	18.5	53.1
Progeny	PGY 9114VT2P	114	153	18.6	55.0
Seed Consultants	SCS 1158YHR™	115	146	19.1	53.4
Hubner Seed	H4663RC2P	113	145	18.2	52.3
	Maturity Average		158	18.8	53.2
	L.S.D. (0.05)		20	1.0	0.7
	C.V.		11	4.8	1.2
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	175	19.2	54.0
DEKALB	DKC69-16RIB	119	162	21.4	53.4
DEKALB	DKC70-27RIB	120	153	20.8	52.4
Progeny	PGY 9117VT2P	117	153	20.7	54.0
MorCorn	MC 4725	117	153	20.5	54.1
Hubner Seed	H4890RC2P	117	150	19.9	53.9
Phoenix	7402 A4	118	144	19.9	51.9
	Maturity Average		156	20.3	53.3
	L.S.D. (0.05)		17	1.2	0.7
	C.V.		10	5.2	1.2
	Location Average		158	19.1	53.3

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

²Reported at 15.5% moisture.

Table 16. Three-year Average Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA, 2017-2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
112-115 Days Relative Maturity					
MorCorn	MC 4319	113	146	19.1	53.6
DEKALB	DKC64-35RIB	114	138	17.4	53.8
	Maturity Average		142	18.2	53.7
	L.S.D. (0.05)		14	0.9	0.9
	C.V.		10	5.0	1.7
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	150	18.2	53.8
MorCorn	MC 4725	117	138	20.2	53.4
Hubner Seed	H4890RC2P	117	136	19.2	53.9
DEKALB	DKC70-27RIB	120	133	20.2	52.2
	Maturity Average		139	19.4	53.3
	L.S.D. (0.05)		11	0.9	0.6
	C.V.		9	5.3	1.1
	Location Average		140	19.0	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 17. Corn Yields at KENTLAND Farm at BLACKSBURG, VA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
108-111 Days Relative Maturity					
Seed Consultants	SCS 1087YHR™	108	207	17.1	54.8
Hubner Seed	H4563RC2P	111	191	19.0	54.9
DEKALB	DKC59-82RIB	109	186	16.5	53.9
DEKALB	DKC60-88RIB	110	186	15.4	55.1
Seed Consultants	SCS 110YHR™	108	173	16.5	58.3
	Maturity Average		189	16.9	55.4
	L.S.D. (0.05)		23	1.7	0.8
	C.V.		7	6.1	0.9
112-115 Days Relative Maturity					
Progeny	PGY EXP1815	115	242	20.8	54.2
Hubner Seed	H4763RC2P	115	232	20.0	54.0
AXIS	63D28	113	222	16.2	55.4
DEKALB	DKC63-57RIB	113	213	18.2	54.2
DEKALB	DKC65-99RIB	115	209	18.8	54.9
NK Brand	NK1573-3330	115	206	18.0	54.6
Hubner Seed	H4663RC2P	113	204	18.8	53.3
Progeny	PGY EXP1915	115	200	19.2	56.9
DEKALB	DKC62-53RIB	112	200	17.5	54.9
DEKALB	DKC64-35RIB	114	200	17.8	55.8
Progeny	PGY EXP1712	112	200	18.3	54.6
Seed Consultants	SCS 1158YHR™	115	197	20.2	54.7
AXIS	65D28	115	194	17.0	55.1
Progeny	PGY EXP1913	115	189	17.8	56.1
DEKALB	DKC65-95RIB	115	187	19.3	55.8
Progeny	PGY 9114VT2P	114	187	18.6	55.9
NK Brand	NK1354-3220	113	181	18.1	54.1
Hubner Seed	H4692RC2P	112	178	15.8	54.0
NK Brand	NK1205-3120	112	166	17.5	54.2
Seed Consultants	SCS 1139AM™	113	165	17.0	57.4
	Maturity Average		198	18.2	55.0
	L.S.D. (0.05)		31	1.5	1.2
	C.V.		10	5.6	1.4
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	235	19.1	54.8
DEKALB	DKC66-18RIB	116	222	20.1	55.1
Hubner Seed	H4846RC2P	118	218	21.0	56.0
Seed Consultants	SCS 1188AM™	118	217	19.9	55.3
DEKALB	DKC69-16RIB	119	214	21.0	55.2
Seed Consultants	SC EX 115YHR™	117	209	18.9	56.4
DEKALB	DKC70-27RIB	120	205	20.4	54.7
Hubner Seed	H4890RC2P	117	205	20.3	55.4
Progeny	PGY 9117VT2P	117	203	19.3	55.4

Table 17. Corn Yields at KENTLAND Farm at BLACKSBURG, VA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
NK Brand	NK1808-3111	118	189	20.9	53.9
	Maturity Average		212	20.1	55.2
	L.S.D. (0.05)		26	1.6	1.3
	C.V.		8	5.3	1.6
	Location Average		201	18.6	55.1

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

²Reported at 15.5% moisture.

Planted April 29, 2019. Harvested September 18, 2019.

Table 18. Two-year Average Corn Yields at Kentland Farm at BLACKSBURG, VIRGINIA in 2018 and 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
108-111 Days Relative Maturity					
Seed Consultants	SCS 1087YHR™	108	177	16.2	55.4
Hubner Seed	H4563RC2P	111	149	18.2	55.5
	Maturity Average		163	17.2	55.4
	L.S.D. (0.05)		26	0.4	1.6
	C.V.		11	1.7	2.2
112-115 Days Relative Maturity					
DEKALB	DKC64-35RIB	114	177	17.3	56.2
Seed Consultants	SCS 1158YHR™	115	168	19.0	54.4
DEKALB	DKC65-95RIB	115	158	18.3	55.8
Hubner Seed	H4663RC2P	113	157	17.8	54.0
DEKALB	DKC62-53RIB	112	148	16.3	54.6
Progeny	PGY 9114VT2P	114	148	17.4	56.4
	Maturity Average		159	17.7	55.2
	L.S.D. (0.05)		28	1.1	0.7
	C.V.		15	5.2	1.0
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	206	18.5	54.5
DEKALB	DKC70-27RIB	120	191	19.9	54.1
Hubner Seed	H4890RC2P	117	184	19.0	55.2
DEKALB	DKC69-16RIB	119	180	19.0	56.1
Progeny	PGY 9117VT2P	117	176	18.6	55.8
NK Brand	NK1808-3111	118	155	19.6	53.9
	Maturity Average		182	19.1	54.9
	L.S.D. (0.05)		23	1.0	1.2
	C.V.		11	4.4	1.9
	Location Average		170	18.2	55.1

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

² Reported at 15.5% moisture.

Table 19. Three-year Average Corn Yields at Kentland Farm at BLACKSBURG, VIRGINIA, 2017-2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
112-115 Days Relative Maturity					
DEKALB	DKC64-35RIB	114	167	17.4	56.1
Seed Consultants	SCS 1158YHR™	115	160	19.0	54.7
	Maturity Average		163	18.2	55.4
	L.S.D. (0.05)		11	0.5	0.7
	C.V.		7	2.9	1.1
>115 Days Relative Maturity					
DEKALB	DKC67-44RIB	117	189	18.4	54.9
DEKALB	DKC70-27RIB	120	185	19.8	54.2
Hubner Seed	H4890RC2P	117	178	19.0	55.5
NK Brand	NK1808-3111	118	149	19.6	53.9
	Maturity Average		175	19.2	54.6
	L.S.D. (0.05)		17	0.8	0.9
	C.V.		11	4.5	1.7
	Location Average		171	18.9	54.9

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 2019 - Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	123	13.7	53.9
Channel	205-63VT2PRIB	105	95	12.9	54.1
Mid-Atlantic	MA8074	107	76	12.9	53.0
	Maturity Average		98	13.2	53.7
	L.S.D. (0.05)		33	0.7	0.6
	C.V.		20	2.9	0.5
108-111 Days Relative Maturity					
Channel	208-38VT2PRIB	108	111	12.8	53.7
DEKALB	DKC59-82RIB	109	109	12.9	52.2
AXIS	59A25	109	103	15.0	53.5
Hubner Seed	H4563RC2P	111	102	13.8	53.3
Channel	211-66VT2PRIB	111	94	13.4	52.3
Seed Consultants	SCS 1087YHR™	108	91	12.6	51.6
LG Seeds	LG60C33VT2PRO	110	91	13.8	53.2
Channel	209-15VT2PRIB	109	89	13.1	53.5
DEKALB	DKC60-88RIB	110	87	12.9	51.8
LG Seeds	LG5590VT2RIB	110	86	13.0	51.9
Seed Consultants	SCS 110YHR™	108	78	13.0	56.0
	Maturity Average		95	13.3	53.0
	L.S.D. (0.05)		18	0.5	1.1
	C.V.		12	2.3	1.2
112-115 Days Relative Maturity					
Dyna-Gro	D54VC14	114	124	14.5	55.2
DEKALB	DKC62-53RIB	112	113	13.2	54.6
DEKALB	DKC65-95RIB	115	113	14.4	54.9
Hubner Seed	H4663RC2P	113	113	13.6	54.2
DEKALB	DKC65-99RIB	115	110	13.9	54.0
Dyna-Gro	D52VC63	112	109	13.1	54.0
Mid-Atlantic	MA8163	115	106	14.6	55.0
Hubner Seed	H4763RC2P	115	106	15.5	54.1
Seed Consultants	SCS 1139AM™	113	105	13.7	55.1
Progeny	PGY 9114VT2P	114	104	14.1	54.3
LG Seeds	LG5643VT2RIB	114	104	13.9	54.2
Progeny	PGY EXP1915	115	104	14.7	55.8
Seed Consultants	SCS 1158YHR™	115	102	15.0	53.8
Channel	215-60TRERIB	115	100	13.2	52.5
AXIS	65D28	115	98	12.6	53.5
AXIS	63D28	113	98	12.9	53.5
LG Seeds	LG64C30TRCRIB	114	98	13.8	53.7
Channel	213-72VT2PRIB	113	97	13.8	53.2
DEKALB	DKC64-35RIB	114	96	14.1	54.3

Table 20. Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA in 2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
Progeny	PGY EXP1913	115	96	13.5	54.1
Hubner Seed	H4692RC2P	112	94	14.0	53.4
DEKALB	DKC63-57RIB	113	94	13.2	52.3
Progeny	PGY EXP1815	115	93	14.6	52.7
Mid-Atlantic	MA8128	112	86	12.8	53.4
Dyna-Gro	D55VC80	115	84	14.0	53.9
LG Seeds	LG62C02VT2RIB	112	84	12.6	55.6
Mid-Atlantic	MA8132	113	83	15.4	54.1
LG Seeds	LG5650VT2RIB	115	81	13.7	54.5
Progeny	PGY EXP1712	112	81	13.1	53.3
Channel	212-90VT2PRIB	112	74	12.9	52.5
	Maturity Average		98	13.8	54.0
	L.S.D. (0.05)		20	0.8	1.5
	C.V.		13	3.6	1.7
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	126	16.3	55.4
DEKALB	DKC66-18RIB	116	123	15.0	54.3
Progeny	PGY 9117VT2P	117	123	16.3	55.4
Seed Consultants	SC EX 115YHR™	117	117	14.4	55.5
DEKALB	DKC69-16RIB	119	116	17.0	55.4
DEKALB	DKC67-44RIB	117	113	16.5	53.6
LG Seeds	LG66C32VT2PRO	116	108	14.9	56.4
Hubner Seed	H4846RC2P	118	107	15.1	56.9
DEKALB	DKC70-27RIB	120	97	17.6	54.1
Seed Consultants	SCS 1188AM™	118	93	15.1	55.8
Channel	217-76VT2PRIB	117	87	13.7	52.8
	Maturity Average		110	15.6	55.1
	L.S.D. (0.05)		23	2.5	1.5
	C.V.		14	10.4	1.7
	Location Average		100	14.0	54.0

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

²Reported at 15.5% moisture.

Planted April 24, 2019. Harvested September 11-12, 2019. Population was 25,275 plants/acre.

Table 21. Two-Year Average Corn Yields at the Northern Piedmont Center at ORANGE, VIRGINIA in 2018 and 2019 - 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	132	15.3	52.9
Mid-Atlantic	MA8074	107	102	14.7	52.8
Channel	205-63VT2PRIB	105	97	14.1	53.8
	Maturity Average		110	14.7	53.2
	L.S.D. (0.05)		21	0.5	0.4
	C.V.		15	2.5	0.5
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	107	15.1	53.5
Hubner Seed	H4563RC2P	111	97	15.5	53.3
Seed Consultants	SCS 1087YHR™	108	86	14.4	52.4
	Maturity Average		97	15.0	53.1
	L.S.D. (0.05)		53	0.8	0.7
	C.V.		45	4.1	0.9
112-115 Days Relative Maturity					
DEKALB	DKC65-95RIB	115	141	17.0	53.9
Mid-Atlantic	MA8163	115	136	16.9	53.7
Hubner Seed	H4663RC2P	113	135	16.6	53.2
Seed Consultants	SCS 1158YHR™	115	132	17.4	52.7
Channel	215-60TRERIB	115	130	16.6	51.6
DEKALB	DKC62-53RIB	112	128	15.5	53.6
Progeny	PGY 9114VT2P	114	121	16.9	53.3
Dyna-Gro	D52VC63	112	118	16.6	53.0
Mid-Atlantic	MA8132	113	113	16.9	53.9
DEKALB	DKC64-35RIB	114	104	16.0	54.2
	Maturity Average		126	16.6	53.3
	L.S.D. (0.05)		24	0.7	0.9
	C.V.		17	3.9	1.5
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	147	17.8	55.3
DEKALB	DKC70-27RIB	120	146	19.1	53.5
DEKALB	DKC69-16RIB	119	143	18.7	53.9
Progeny	PGY 9117VT2P	117	136	18.6	53.8
DEKALB	DKC67-44RIB	117	113	17.7	53.2
	Maturity Average		137	18.4	54.0
	L.S.D. (0.05)		31	2.4	2.3
	C.V.		20	11.2	3.5
	Location Average		122	16.5	53.4

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, 2017-2019 - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	126	15.1	52.9
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	96	14.8	53.5
112-115 Days Relative Maturity					
Seed Consultants	SCS 1158YHR™	115	113	16.1	52.7
DEKALB	DKC64-35RIB	114	95	16.1	54.2
	Maturity Average		104	16.1	53.5
	L.S.D. (0.05)		23	0.9	1.4
	C.V.		19	5.1	1.0
>115 Days Relative Maturity					
DEKALB	DKC70-27RIB	120	128	17.5	53.5
Hubner Seed	H4890RC2P	117	122	16.9	55.3
DEKALB	DKC67-44RIB	117	104	16.5	53.2
	Maturity Average		118	16.9	54.0
	L.S.D. (0.05)		17	1.9	2.1
	C.V.		15	11.8	2.7
	Location Average		112	16.1	53.6

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

²Reported at 15.5% moisture.

**Table 23. Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2019 (Thanks to Mark Deavers)
- Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	186	14.5	56.8
Mid-Atlantic	MA8074	107	156	14.3	55.6
	Maturity Average		171	14.4	56.2
	L.S.D. (0.05)		---	0.4	7.2
	C.V.		15	0.8	1.2
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	192	14.5	57.3
AXIS	59A25	109	183	14.7	58.7
LG Seeds	LG5590VT2RIB	110	172	14.3	56.1
DEKALB	DKC60-88RIB	110	168	14.4	57.2
Seed Consultants	SCS 1087YHR™	108	162	14.4	56.5
Channel	211-66VT2PRIB	111	162	14.3	56.7
Hubner Seed	H4563RC2P	111	160	14.5	57.2
DEKALB	DKC59-82RIB	109	155	14.2	55.5
Seed Consultants	SCS 110YHR™	108	152	14.6	59.3
LG Seeds	LG60C33VT2PRO	110	145	15.1	57.1
	Maturity Average		165	14.5	57.2
	L.S.D. (0.05)		26	0.6	0.8
	C.V.		10	2.6	0.9
112-115 Days Relative Maturity					
Channel	215-60TRERIB	115	193	14.3	56.5
Seed Consultants	SCS 1158YHR™	115	193	14.5	57.8
Progeny	PGY EXP1815	115	191	14.7	58.2
DEKALB	DKC65-95RIB	115	186	14.7	59.1
Channel	213-72VT2PRIB	113	184	14.8	57.2
Progeny	PGY 9114VT2P	114	183	14.6	58.2
DEKALB	DKC64-35RIB	114	180	14.4	57.6
Hubner Seed	H4663RC2P	113	179	14.5	56.2
Progeny	PGY EXP1915	115	178	14.6	59.3
Progeny	PGY EXP1913	115	176	14.2	57.0
Mid-Atlantic	MA8163	115	174	14.9	58.6
Progeny	PGY EXP1712	112	174	14.5	56.9
NK Brand	NK1573-3330	115	174	14.9	56.4
DEKALB	DKC62-53RIB	112	173	14.7	57.9
NK Brand	NK1354-3220	113	170	14.6	56.2
DEKALB	DKC65-99RIB	115	170	14.5	57.5
LG Seeds	LG62C02VT2RIB	112	170	14.7	58.0
LG Seeds	LG64C30TRCRIB	114	167	14.5	57.8
DEKALB	DKC63-57RIB	113	167	14.6	57.7
Hubner Seed	H4763RC2P	115	165	14.6	57.7
Hubner Seed	H4692RC2P	112	165	14.0	56.1

**Table 23. Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2019 (Thanks to Mark Deavers)
- Virginia Tech Trials.**

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
AXIS	65D28	115	161	14.4	56.6
AXIS	63D28	113	160	14.2	56.6
LG Seeds	LG5650VT2RIB	115	160	14.2	59.0
Seed Consultants	SCS 1139AM™	113	160	14.6	58.9
LG Seeds	LG5643VT2RIB	114	160	14.2	57.2
Channel	212-90VT2PRIB	112	157	14.6	58.0
Mid-Atlantic	MA8132	113	155	15.7	58.0
NK Brand	NK1205-3120	112	150	14.3	56.1
Mid-Atlantic	MA8128	112	148	14.1	56.0
	Maturity Average		171	14.5	57.5
	L.S.D. (0.05)		27	0.8	0.9
	C.V.		10	3.7	0.9
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	192	14.8	59.6
Seed Consultants	SCS 1188AM™	118	191	14.6	58.4
LG Seeds	LG66C32VT2PRO	116	188	15.2	58.8
Hubner Seed	H4846RC2P	118	188	14.8	59.3
Progeny	PGY 9117VT2P	117	183	14.5	58.7
Channel	217-76VT2PRIB	117	182	15.6	56.9
Seed Consultants	SC EX 115YHR™	117	179	14.6	59.2
DEKALB	DKC66-18RIB	116	176	14.7	57.9
DEKALB	DKC67-44RIB	117	170	14.4	57.9
DEKALB	DKC69-16RIB	119	167	14.8	59.1
DEKALB	DKC70-27RIB	120	166	14.6	58.3
NK Brand	NK1808-3111	118	152	14.5	57.2
	Maturity Average		178	14.8	58.4
	L.S.D. (0.05)		34	0.9	1.1
	C.V.		12	3.9	1.0
	Location Average		171	14.6	57.6

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

² Reported at 15.5% moisture.

Planted April 25, 2019. Harvested October 17, 2019. Population was 25,790 plants/acre.

Table 24. Two-Year Average Corn Yields in ROCKINGHAM COUNTY, VIRGINIA in 2018 and 2019 (Thanks to Mark Deavers) - Virginia Tech Trials.

Brand/Company	Hybrid	DTM per Co.¹	Yield² bu/A	Moist %	Test Wt. lb/bu
<108 Days Relative Maturity					
Mid-Atlantic	MA8091	107	156	15.3	55.7
Mid-Atlantic	MA8074	107	136	15.2	55.6
	Maturity Average		146	15.2	55.7
	L.S.D. (0.05)		33	1.5	1.3
	C.V.		15	6.2	1.3
108-111 Days Relative Maturity					
Channel	209-15VT2PRIB	109	161	15.8	57.4
Seed Consultants	SCS 1087YHR™	108	145	15.3	56.4
Hubner Seed	H4563RC2P	111	140	15.6	56.7
	Maturity Average		148	15.6	56.8
	L.S.D. (0.05)		15	0.4	2.1
	C.V.		8	2.1	2.8
112-115 Days Relative Maturity					
DEKALB	DKC65-95RIB	115	174	15.2	57.8
Seed Consultants	SCS 1158YHR™	115	174	14.9	56.6
Channel	215-60TRERIB	115	168	14.9	56.1
DEKALB	DKC62-53RIB	112	161	15.3	57.4
Hubner Seed	H4663RC2P	113	160	14.8	55.7
DEKALB	DKC64-35RIB	114	155	15.2	56.8
Progeny	PGY 9114VT2P	114	153	15.6	57.3
Mid-Atlantic	MA8163	115	152	15.2	56.9
Mid-Atlantic	MA8132	113	139	15.0	57.5
	Maturity Average		159	15.1	56.9
	L.S.D. (0.05)		26	1.2	1.0
	C.V.		15	7.0	1.5
>115 Days Relative Maturity					
Hubner Seed	H4890RC2P	117	162	15.4	56.8
Progeny	PGY 9117VT2P	117	158	15.0	56.6
DEKALB	DKC69-16RIB	119	154	15.4	57.6
DEKALB	DKC70-27RIB	120	152	15.2	57.3
DEKALB	DKC67-44RIB	117	141	15.6	56.9
NK Brand	NK1808-3111	118	138	15.7	56.6
	Maturity Average		151	15.4	56.9
	L.S.D. (0.05)		29	0.8	1.1
	C.V.		16	4.5	1.6
	Location Average		154	15.3	56.8

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

²Reported at 15.5% moisture.