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Virginia Corn Silage Hybrid Trials in 2022

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Companies Participating in the 2022 Virginia Tech Corn Silage Hybrid Trials

Company	Brand	Address
Augusta Seed	Augusta Seed	PO Box 899, Verona, VA 24482
Corteva Agriscience Ag. Division Dow/Dupont	Pioneer	7200 NW 62nd Ave., Johnston, IA 50131
GROWMARK	FS	308 NE Front Street, Milford, DE 19963
King's Agriseeds	Red Tail	1828 Freedom Rd #101, Lancaster, PA 17601
Mid-Atlantic Seeds	Mid-Atlantic	204 St. Charles Way #163, York, PA 17402
Seed Consultants, Inc.	Seed Consultants	648 Miami Trace Rd., Washington Court House, OH 43160
Seedway, LLC	Seedway	1734 Railroad Pl, Hall, NY 14463
Syngenta Seeds	NK Brand	4013 Fairmount Pike, Signal Mountain, TN 37377

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Introduction

This report contains the results for performance trials from commercial corn hybrids produced for silage at four locations in Virginia in 2022 as well as two average performance, when available. In order to avoid problems with comparisons over sites and years, multi-year yields are presented as a percentage of the total called relative yield at that particular site-year combination. All locations were planted with a Wintersteiger PlotKing 2600 planter and harvested with commercial silage equipment. Yields are presented on a dry matter and 35% dry matter basis for comparison. Quality analysis was performed using a Foss NIR XDS Rapid Content Analyzer. All hybrids entered in the Virginia trials were submitted for testing 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 Silage Performance 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 difference due to uncontrollable variation has been computed for the data and is listed at the bottom of columns as the LSD (.10) (least significant difference with 90% confidence). Differences less than the LSD are assumed not to be real differences with 90% confidence.

Hybrid Selection

Multi-year results are more reliable than single-year results.

When making hybrid selections it is important to realize that hybrids differ in their performance under differing environments. Some hybrids are more adapted to a wide range of environments. Hybrid performance may differ with year and location variations of 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 yield across locations when making selections. Multi-year averages give greater confidence to hybrid performance decisions. 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.

Understanding Relative Yield

Companies entering silage hybrids decide which hybrids are planted at which locations. In 2022, some hybrids were planted at all four locations and others at only one or two sites.

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 indicates how far above or below average a hybrid performed. For example, a hybrid with a relative yield of 110 yielded 10% above the average yield for all hybrids at that site.

Selecting hybrids for both yield and quality

Milk2006 is used to condense multiple corn silage quality and digestibility factors into one easy-to-compare "milk per ton" number. This system also generates a "milk per acre" rating for each hybrid, calculated by multiplying yield (tons per acre) by quality (pounds of milk per ton). The same problem described above for multi-site yield comparisons exists for yield by quality comparisons: not all hybrids were tested at all sites. Therefore, relative quality and relative yield x quality ratings were calculated.

Milk2006 is a system developed by University of Wisconsin researchers to simplify quality comparisons between corn silage samples. Included in the analysis are variety identification, kernel processing, dry matter, crude protein, NDF, in-vitro NDF digestibility, starch percent and yield per acre. Compared to Milk2000, Milk2006 values more accurately address the effects of fiber digestibility on silage quality. Milk2006 has proven to more accurately reflect actual milk production than earlier versions of the program.

Milk2006 was designed solely as an index to be used when making quality comparisons between silage samples or hybrids. Milk per ton or milk per acre numbers should not be used to predict actual milk production on your farm. Milk per ton is more accurate at predicting cow performance since it includes quality factors that affect milk production. Milk per acre allows consideration of yield as well as quality factors.

Use other information

Consider as much other information as possible from other independent sources before selecting hybrids. Look for agronomic as well as silage quality data.

2022 Virginia Tech Corn Silage Hybrid Trials Plot Information

(Rates are on a per acre basis.)

Blackstone (Southern Piedmont Agricultural Research & Extension Center)
Planted: April 22, 2022 conventional tillage
Harvested: August 24, 2022
Population: 27,878 plants/acre
Pesticide: 2.5qt Bicep on April 25, 2022
Fertilizer: 1000 lbs 10-10-10 on April 12, 2022; 60 lbs UAN top-dressed 5/23/2022.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Appling sandy loam
Cooperator: Ned Jones

Orange (Northern Piedmont Center)
Planted: April 28, 2022 no-till into soybean stubble
Harvested: August 29, 2022
Population: 24,111 plants/acre
Pesticide: 1.5 qt Lumax® + 2 qt glyphosate + 1 pt atrazine April 20, 2022; .67 oz Accent on April 20, 2022
Fertilizer: 183 lbs 30-60-20 April 28, 2022; 100 lb N June 15, 2022
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Davidson clay
Previous crop: Soybeans
Cooperators: Greg Lillard

Shenandoah Valley (Thanks to David Yutzy, Windcrest Holsteins.)
Planted: May 12, 2022 no-till
Harvested: September 19, 2022
Population: 20,482 plants/acre
Pesticide: 1 qt glyphosate + 1 pt atrazine preplant, 3.6 pt Halex at V5.
Fertilizer: 50 lb potash and 40 lb sulfur in January; 5,000 gallons dairy manure injected preplant; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 75 lb N from urea side-dressed
Cooperators: Doug Horn and David Yutzy

Washington County (Southwest Virginia Agricultural Research & Extension Center)
Planted: May 13, 2022 no-till
Harvested: September 9, 2022
Pesticide: 2 quarts Trizmet, 1 quart glyphosate
Fertilizer: 155-53 -141- 26S - 6 Zn preplant; Side dressed with 78 pounds N at V8
Plot Size: 2 rows 35' x 30" 4 replications
Soil Type: Wyrick-Marbie silt loam
Cooperator: Phil Blevins

Table 1. List of hybrids in the 2022 Virginia Tech corn silage hybrid test.

BRAND	HYBRID	DTM[1]	Seed Treatment	Genetic Trait Package	OBS[2]
Augusta	A4961	111	Cruiser Maxx® 250	Agrisure Duracade® 5222	1
Augusta	A6362	112	Cruiser Maxx® 250	Agrisure Duracade® 5222 E-Z	1
Augusta	A6262	112	Cruiser Maxx® 250	Agrisure Duracade® 5222 E-Z	1
Augusta	A5563	113	Cruiser Maxx® 250	Agrisure Duracade® 5222 E-Z	1
Augusta	A1964	114	Cruiser Maxx® 250	Agrisure Duracade® 5222 E-Z	1
Augusta	A1265	115	Cruiser Maxx® 250	Agrisure Viptera® 3220	1
Augusta	A1466	116	Cruiser Maxx® 250	Agrisure Duracade® 5222	1
FS	FS 62ZX1 RIB	112		SmartStax® RIB Complete®	1
FS	FS 6306T RIB	113		Trecepta® RIB Complete	4
FS	FS 6595X RIB	115		SmartStax® RIB Complete®	4
FS	FS 65R87SS	115		SmartStax® RIB Complete®	4
FS	FS 6818X RIB	118		SmartStax® RIB Complete®	4
Mid-Atlantic	MA5083DCEZ	108	Cruiser Maxx® 250	Agrisure Duracade® 5122 E-Z	4
Mid-Atlantic	MA8141SSRIB	114	Cruiser Maxx® 250	SmartStax® RIB Complete®	4
Mid-Atlantic	MA5144DCEZ	114	Cruiser Maxx® 250	Agrisure Duracade® 5122 E-Z	4
Mid-Atlantic	MA5161DCVIPEZ	116	Cruiser Maxx® 250	Agrisure Duracade® 5122 E-Z	4
Mid-Atlantic	MA5168VIP3220	116	Cruiser Maxx® 250	Agrisure Viptera® 3110	4
NK Brand	NK1748-3110	117	Avicta Complete Corn 500/Vibrance/Vayantis	Agrisure Viptera® 3110	4
NK Brand	NK1755-5222	117	Avicta Complete Corn	Agrisure Duracade 5222 EZ Refuge	4
NK Brand	NK1838-3110	118	Avicta Complete Corn 500/Vibrance/Vayantis	Agrisure Viptera® 3110	4
Pioneer Brand	P1380Q	113	Poncho® 1250/VOTiVO®	QROME®	4
Pioneer Brand	P1587Q	115	Poncho® 1250/VOTiVO®	QROME®	4
Redtail	RT 64T39-D1	114	Cruiser Maxx® 250	Agrisure Duracade® 5122 E-Z	2
Redtail	RT 65T09-D1	115	Cruiser Maxx® 250	Agrisure Duracade® 5122 E-Z	2
Seed Consultants	SC1093AM™	109	LumiGen	AcreMax®	2
Seed Consultants	SC1112AM™	111	LumiGen	AcreMax®	2
Seed Consultants	SC1122Q™	112	LumiGen	QROME®	2
Seed Consultants	SC-EX113	113	LumiGen	AcreMax®	2
Seed Consultants	SC1170AM™	117	LumiGen	AcreMax®	2
Seed Consultants	SC1183AM™	118	LumiGen	AcreMax®	2
Seedway	SW 1345TR	113	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	Trecepta® RIB Complete	2
Seedway	SX 142 VT	114	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO® RIB Complete	2
Seedway	SW 1579VT	115	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO® RIB Complete	2
Seedway	SW 1781VT	117	Acceleron® 500/Poncho® 500/VOTiVO®500 EDC	VT Double PRO® RIB Complete	2

[1] Days to maturity (DTM) provided by company; differences in maturity rating methods may exist.

[2] Number of observations hybrid occurred; the greater the observations, the more reliable the data.

The Handy Bt Trait Table for U.S. corn production, updated February 2020 (thanks to Chris DiFonzo, Michigan State University, difonzo@msu.edu)

Trait packages in alphabetical order (acronym that may be used)	**Bt protein(s) in the trait package**	**Marketed for control of:**										**Resistance confirmed to the combination of Bts in package** (check local situation)	**Herbicide trait**			**Non-Bt Refuge % (cornbelt)**
		BCW	CEW	ECB	FAW	SB	SCB	SWB	TAW	WBC	CR		GR	LL	E	
AcreMax (AM)	Cry1Ab Cry1F	x	x	x	x	x	x	x				CEW FAW WBC	x	x		5% in bag
AcreMax CRW (AMRW)	Cry34/35Ab1										x	NCR WCR	x	x		10% in bag
AcreMax1 (AM1)	Cry1F Cry34/35Ab1	x		x	x	x	x	x			x	ECB FAW SWB WBC NCR WCR	x	x		10% in bag 20% ECB
AcreMax Leptra (AML)	Cry1Ab Cry1F Vip3A	x	x	x	x	x	x	x	x	x			x	x		5% in bag
AcreMax TRIsect (AMT)	Cry1Ab Cry1F mCry3A	x	x	x	x	x	x	x			x	CEW FAW WBC WCR	x	x		10% in bag
AcreMax Xtra (AMX)	Cry1Ab Cry1F Cry34/35Ab1	x	x	x	x	x	x	x			x	CEW FAW WBC NCR WCR	x	x		10% in bag
AcreMax Xtreme (AMXT)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x			x	CEW FAW WBC WCR	x	x		5% in bag
Agrisure 3010 (BR)	Cry1Ab		x	x			x	x				CEW	x	x		20%
Agrisure 3000GT & 3011A	Cry1Ab mCry3A		x	x			x	x			x	CEW WCR	x	x		20%
Agrisure Viptera 3110 (VR)	Cry1Ab Vip3A	x	x	x	x	x	x	x	x	x			x	x		20%
Agrisure Viptera 3111 (A4)	Cry1Ab Vip3A mCry3A	x	x	x	x	x	x	x	x	x	x	WCR	x	x		20%
Agrisure 3120 E-Z Refuge (BZ)	Cry1Ab Cry1F	x	x	x	x	x	x	x				CEW FAW WBC	x	See bag tag. EZ0 = no EZ1 = yes		5% in bag
Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x			x	CEW FAW WBC WCR	x			5% in bag
Agrisure Viptera 3220 E-Z (VZ)	Cry1Ab Cry1F Vip3A	x	x	x	x	x	x	x	x	x			x			5% in bag
Agrisure Viptera 3330 E-Z	Cry1Ab Vip3A Cry1A.105/Cry2Ab2	x	x	x	x	x	x	x	x	x			x			5% in bag
Agrisure Duracade 5122 E-Z (D1)	Cry1Ab Cry1F mCry3A eCry3.1Ab	x	x	x	x	x	x	x			x	CEW FAW WBC WCR	x			5% in bag
Agrisure Duracade 5222 E-Z (D2)	Cry1Ab Cry1F Vip3A mCry3A eCry3.1Ab	x	x	x	x	x	x	x	x	x	x	WCR	x			5% in bag
Herculex I (HXI)	Cry1F	x		x	x	x	x	x				ECB FAW SWB WBC	x	x		20%
Herculex RW (HXRW)	Cry34/35Ab1										x	NCR WCR	x	x		20%
Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	x		x	x	x	x	x			x	ECB FAW SWB WBC NCR WCR	x	x		20%
Intrasect (YHR)	Cry1Ab Cry1F	x	x	x	x	x	x	x				CEW FAW WBC	x	x		5%
Intrasect TRIsect (CYHR)	Cry1Ab Cry1F mCry3A	x	x	x	x	x	x	x			x	CEW FAW WBC WCR	x	x		20%
Intrasect Xtra (YXR)	Cry1Ab Cry1F Cry34/35Ab1	x	x	x	x	x	x	x			x	CEW FAW WBC NCR WCR	x	x		20%
Intrasect Xtreme (CYXR)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x			x	CEW FAW WBC WCR	x	x		5%
Leptra (VYHR)	Cry1Ab Cry1F Vip3A	x	x	x	x	x	x	x	x	x			x	x		5%
Powercore [a] (PW) PW Refuge Advanced [b] (PWRA)	Cry1A.105/Cry2Ab2 Cry1F	x	x	x	x	x	x	x				CEW WBC	x	x		[a] 5% [b] 5% in bag
Powercore Enlist (PWE)	Same as Powercore	x	x	x	x	x	x	x				Same as Powercore	x	x	x	5% in bag
QROME (Q)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x			x	CEW FAW WBC WCR	x	x		5% in bag
SmartStax [a] (SX,STX or SS) STX Refuge Advanced [b] (SXRA) STX RIB Complete [b] (STXRIB)	Cry1A.105/Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	x	x	x	x	x	x	x			x	CEW WBC NCR WCR	x	x		[a] 5% [b] 5% in bag
SmartStax Enlist (SXE)	Same as SmartStax	x	x	x	x	x	x	x			x	Same as SmartStax	x	x	x	5% in bag
Trecepta [a] (TRE) Trecepta RIB Complete [b] (TRERIB)	Cry1A.105/Cry2Ab2 Vip3A	x	x	x	x	x	x	x	x	x			x			[a] 5% [b] 5% in bag
TRIsect (CHR)	Cry1F mCry3A	x		x	x	x	x	x			x	ECB FAW SWB WBC WCR	x	x		20%

VT DoublePRO [a] (VT2P) VT2P RIB Complete[b] (VT2PRIB)	Cry1A.105/Cry2Ab2		x	x	x	x	x	x			CEW	x			[a]5% [b]5% in bag
VT TriplePRO [c] (VT3P) VT3P RIB Complete [d] (VT3PRIB)	Cry1A.105/Cry2Ab2 Cry3Bb1		x	x	x	x	x	x		x	CEW NCR WCR	x			[c]20% [D]10% in bag
Yieldgard Corn Borer (YGCB)	Cry1Ab		x	x			x	x			CEW	x			20%
Yieldgard Rootworm (YGRW)	Cry3Bb1									x	NCR WCR	x			20%
Yieldgard VT Triple (VT3)	Cry1Ab Cry3Bb1		x	x			x	x		x	CEW NCR WCR	x			20%

Table 2. Multi-year, multi-site relative ton per acre (yield).

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2022	2021	2022	2021	2022	2021	2022	2021		
			----------Relative Ton per Acre[3]----------									
Augusta	A1466	116	125 *	---	---	---	---	---	---	---	125	1
Augusta	A1265	115	125 *	---	---	---	---	---	---	---	125	1
Augusta	A5563	113	120 *	---	---	---	---	---	---	---	120	1
Seedway	SX 142 VT	114	140 *	---	97	---	---	---	---	---	119	2
Mid-Atlantic	MA5144DCEZ	114	131	---	107 *	---	102	---	133 *	---	118	4
Seed Consultants	SC1093AM™	109	103	---	---	---	---	---	133 *	---	118	2
Augusta	A6362	112	134 *	101	---	---	---	---	---	---	117	2
Augusta	A4961	111	116 *	---	---	---	---	---	---	---	116	1
NK Brand	NK1838-3110	118	102	---	118 *	---	107 *	---	130 *	---	114	4
FS	FS 6306T RIB	113	88	---	114 *	---	108 *	---	134 *	---	111	4
NK Brand	NK1748-3110	117	112 *	99	121 *	116 *	98	102 *	119 *	87	107	8
FS	FS 6818X RIB	118	112 *	116 *	91	110 *	109 *	89	109 *	104	105	8
Seed Consultants	SC-EX113	113	---	---	---	---	---	---	105 *	---	105	1
Mid-Atlantic	MA5083DCEZ	108	81	123 *	94	---	110 *	---	113 *	---	104	5
Augusta	A1964	114	104	---	---	---	---	---	---	---	104	1
FS	FS 6595X RIB	115	122 *	117 *	108 *	90	99	101 *	77	103	102	8
Seedway	SW 1781VT	117	114 *	---	88	---	---	---	---	---	101	2
Seed Consultants	SC1112AM™	111	98	111	---	112 *	---	90	99	92	100	6
Mid-Atlantic	MA8141SSRIB	114	92	90	114 *	---	100 *	---	100	---	99	5
Mid-Atlantic	MA5161DCVIPEZ	116	119 *	88	110 *	---	96	---	78	---	98	5
Redtail	RT 65T09-D1	115	65	108 *	128 *	92	'---	---	---	---	98	4
NK Brand	NK1755-5222	117	86	---	93	---	95	---	109 *	---	96	4
FS	FS 65R87SS	115	79	100	90	99	97	94	96	109 *	96	8
Seed Consultants	SC1122Q™	112	70	111	---	94	---	82	90	114 *	94	6
Seed Consultants	SC1170AM™	117	76	107 *	---	103 *	---	88	72	113 *	93	6
Pioneer Brand	P1587Q	115	83	---	85	---	104 *	---	95	---	92	4
Mid-Atlantic	MA5168VIP3220	116	83	---	94	---	94	---	94	---	91	4

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley			Northern Piedmont			Southern Piedmont			Southwest / Mountain			Multi-Site Average	Number of Obs.[2]
Seedway	SW 1345TR	113	81	---		101	---		---	---		---	---		91	2
Redtail	RT 64T39-D1	114	79	---		101	---		---	---		---	---		90	2
Seedway	SW 1579VT	115	93	98		79	92		---	71		---	100		89	6
Pioneer Brand	P1380Q	113	102	110	*	65	83		75	116	*	30	106	*	86	8
Seed Consultants	SC1183AM™	118	85	---		---	---		---	---		82	---		84	2
Augusta	A6262	112	79	---		---	---		---	---		---	---		79	1

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

[2] Hybrids tested over more site/year combinations provide a better estimate of hybrid performance than those tested only in a single site/year location.

[3] Relative Ton per Acre (yield) calculated by dividing Ton per Acre for each hybrid at each site/year by the average Ton per Acre for that site/year.

Numbers over 100 indicate above-average yield, 100 indicates average yield, numbers under 100 indicate below-average yield.

Shading indicates hybrids that were in the highest yielding group in at least three site years.

* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.

Table 3. Multi-year, multi-site relative milk per ton (quality).

Brand	Hybrid	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
		2022	2021	2022	2021	2022	2021	2022	2021		
		Relative Milk per Ton[3]									
Redtail	RT 64T39-D1	119 *	---	96	---	---	---	---	---	108	2
Seed Consultants	SC1112AM™	94	105 *	---	110	---	128 *	102	104 *	107	6
Augusta	A1265	107 *	---	---	---	---	---	---	---	107	1
Seed Consultants	SC1122Q™	106 *	101	---	102	---	128 *	98	102	106	6
Seed Consultants	SC1093AM™	110 *	---	---	---	---	---	100	---	105	2
Mid-Atlantic	MA8141SSRIB	114 *	105 *	98	---	97	---	108 *	---	104	5
NK Brand	NK1748-3110	96	98	106 *	124	107 *	102 *	100	97	104	8
Seedway	SX 142 VT	104 *	---	103	---	---	---	---	---	104	2
Seed Consultants	SC1170AM™	104 *	105 *	---	117	---	95 *	101	98	103	6
FS	FS 65R87SS	103 *	104 *	103	111	98	110 *	98	93	102	8
Seed Consultants	SC-EX113	---	---	---	---	---	---	102	---	102	1
Mid-Atlantic	MA5168VIP3220	92	---	109 *	---	103	---	104	---	102	4
Pioneer Brand	P1587Q	104 *	---	98	---	101	---	104	---	102	1
Augusta	A5563	102 *	---	---	---	---	---	---	---	102	1
NK Brand	NK1838-3110	100	---	101	---	103	---	103	---	102	4
FS	FS 6306T RIB	110 *	---	97	---	101	---	98	---	102	4
Augusta	A1466	101 *	---	---	---	---	---	---	---	101	1
Seed Consultants	SC1183AM™	103	---	---	---	---	---	99	---	101	2
NK Brand	NK1755-5222	103	---	96	---	101	---	100	---	100	4
Mid-Atlantic	MA5144DCEZ	88	---	105 *	---	101	---	105 *	---	100	4
Augusta	A6362	100	---	---	---	---	---	---	---	100	1
FS	FS 6818X RIB	103 *	100	99	119	97	82	97	98	99	8
Mid-Atlantic	MA5083DCEZ	95	97	107 *	---	96	---	102	---	99	5
Seedway	SW 1345TR	94	---	104	---	---	---	---	---	99	2
Redtail	RT 65T09-D1	103 *	103	*--	90	*--	---	---	---	98	3
Seedway	SW 1781VT	94	---	102	---	---	---	---	---	98	2
FS	FS 6595X RIB	99	102	102	86	99	100 *	99	94	98	8
Seedway	SW 1579VT	100	103	92	88	---	98 *	---	104 *	98	6
Augusta	A4961	97	---	---	---	---	---	---	---	97	1

Brand	Hybrid	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
Mid-Atlantic	MA5161DCVIPEZ	86	95	99	---	104 *	---	101	---	97	5
Augusta	A1964	95	---	---	---	---	---	---	---	95	1
Pioneer Brand	P1380Q	92	103	86	91	91	91 *	78	98	91	8
Augusta	A6262	69	---	---	---	---	---	---	---	69	1

[1] Days to maturity provided by company; differences in maturity rating methods may exist between companies.
[2] Hybrids tested over more site/year combinations provide a better estimate of hybrid performance than those tested only in a single site/year location.
[3] Relative Milk per Ton (quality) calculated by dividing Milk per Ton for each hybrid at each site/year by the average Milk per Ton for that site/year.
Numbers over 100 indicate above-average yield, 100 indicates average yield, numbers under 100 indicate below-average yield.
Shading indicates hybrids that were in the highest yielding group in at least three site years.
*-- Indicates data loss
* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.

Table 4. Multi-year, multi-site relative milk per acre (yield X quality)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2022	2021	2022	2021	2022	2021	2022	2021		
Augusta	A6362	112	138 *	---	---	---	---	---	---	---	138	1
Augusta	A5563	113	133 *	---	---	---	---	---	---	---	133	1
Augusta	A1265	115	130 *	---	---	---	---	---	---	---	130	1
Augusta	A1964	114	126 *	---	---	---	---	---	---	---	126	1
Augusta	A1466	116	123 *	---	---	---	---	---	---	---	123	1
Seedway	SX 142 VT	114	144 *	---	98	---	---	---	---	---	121	2
Seed Consultants	SC1093AM™	109	100	---	---	---	---	---	135 *	---	117	2
Augusta	A4961	111	113 *	---	---	---	---	---	---	---	113	1
NK Brand	NK1838-3110	118	110 *	---	92	---	111 *	---	134 *	---	112	4
Mid-Atlantic	MA5144DCEZ	114	117 *	---	86	---	103 *	---	139 *	---	111	4
Redtail	RT 64T39-D1	114	117 *	---	99	---	---	---	---	---	108	2
Mid-Atlantic	MA5083DCEZ	108	76	132 *	109 *	---	106 *	---	116 *	---	108	5
NK Brand	NK1748-3110	117	105 *	106 *	105 *	124 *	105 *	111 *	119 *	85	107	8
Seed Consultants	SC-EX113	113		---	---	---	---	---	107	---	107	1
Seed Consultants	SC1112AM™	111	89	127 *	---	110 *	---	116 *	101	95	106	6
FS	FS 6818X RIB	118	125 *	116 *	96	119 *	106 *	76	106	103	106	8
FS	FS 6306T RIB	113	80	---	102	---	110 *	---	131 *	---	106	4
NK Brand	NK1755-5222	117	89	---	124 *	---	97 *	---	109 *	---	105	4
Pioneer Brand	P1587Q	115	76	---	123 *	---	106 *	---	99	---	101	1
Seed Consultants	SC1170AM™	117	101	111 *	---	117 *	---	87	74	111 *	100	6
FS	FS 65R87SS	115	78	112 *	94	111 *	95 *	108 *	94	100	99	8
FS	FS 6595X RIB	115	141 *	98	89	86	98 *	107 *	76	97	99	8
Seed Consultants	SC1122Q™	112	70	105 *	---	102 *	---	110 *	88	117 *	99	6
Seedway	SW 1781VT	117	103 *	---	93	---	---	---	---	---	98	2
Mid-Atlantic	MA5161DCVIPEZ	116	103 *	103 *	102	---	101 *	---	78	---	97	5
Seedway	SW 1579VT	115	88	116 *	112 *	88	---	74	---	104 *	97	6
Seed Consultants	SC1183AM™	118	108 *	---	---	---	---	---	81	---	95	2
Mid-Atlantic	MA8141SSRIB	114	104 *	86	69	---	97 *	---	107	---	93	5

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
Seedway	SW 1345TR	113	67	---	118 *	---	---	---	---	---	93	2
Mid-Atlantic	MA5168VIP3220	116	74	---	98	---	97 *	---	98	---	92	4
Pioneer Brand	P1380Q	113	103 *	126 *	98	91	68	110 *	25	104 *	91	8
Redtail	RT 65T09-D1	115	71	107 *	---	90	---	---	---	---	89	3
Augusta	A6262	112	53	---	---	---	---	---	---	---	53	1

[1] Days to maturity provided by company; differences in maturity rating methods may exist between companies.
[2] Hybrids tested over more site/year combinations provide a better estimate of hybrid performance than those tested only in a single site/year location.
[3] Relative Milk per Ton (quality) calculated by dividing Milk per Ton for each hybrid at each site/year by the average Milk per Ton for that site/year.
Numbers over 100 indicate above-average yield, 100 indicates average yield, numbers under 100 indicate below-average yield.
Shading indicates hybrids that were in the highest yielding group in at least three site years.
*-- Indicates data loss
* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer

Table 5. Corn silage test results at the Southern Piedmont AREC, Blackstone, VA in 2022.

Brand	Hybrid	DTM[1]	DM at Harvest		Yield at 35% DM		DM Yield		Crude Protein		ADF		NDF		NDF Digest.		NE_L		TDN		Milk2006			
		--Days--	%		ton/acre		ton/acre		----------%----------								Mcal/lb		%		lb milk/ton		lb milk/acre	
NK Brand	NK1838-3110	118	31.7		15.1	*	5.3	*	11.2	*	27.7		49.4	*	60.0		0.71	*	71.8		3340	*	17654	*
FS	FS 6306T RIB	113	38.0	*	15.3	*	5.3	*	9.7		26.4	*	47.8	*	63.0		0.70		71.5		3278		17522	*
Pioneer Brand	P1587Q	115	36.8	*	14.7	*	5.1	*	9.9		26.4	*	47.5	*	62.0		0.70		71.4		3286		16942	*
FS	FS 6818X RIB	118	34.7		15.4	*	5.4	*	10.1		29.1		53.2		55.8		0.68		68.5		3135		16908	*
Mid-Atlantic	MA5083DCEZ	108	38.9	*	15.4	*	5.4	*	10.9		26.6	*	49.4	*	57.7		0.68		68.7		3121		16842	*
NK Brand	NK1748-3110	117	31.8		13.8	*	4.8	*	10.8		27.4		49.5	*	64.6		0.72	*	74.1	*	3474	*	16801	*
Mid-Atlantic	MA5144DCEZ	114	35.5	*	14.3	*	5.0	*	11.5	*	27.0		47.2	*	57.8		0.70		70.8		3286		16455	*
Mid-Atlantic	MA5161DCVIPEZ	116	33.7		13.6	*	4.8	*	11.3	*	26.5	*	48.3	*	58.8		0.72	*	72.2	*	3387	*	16103	*
FS	FS 6595X RIB	115	36.7	*	14.0	*	4.9	*	11.0	*	26.2	*	50.2	*	58.4		0.69		70.1		3227		15653	*
Mid-Atlantic	MA8141SSRIB	114	34.7		14.1	*	4.9	*	11.2	*	28.0		52.9		54.7		0.68		68.6		3152		15555	*
Mid-Atlantic	MA5168VIP3220	116	31.5		13.2		4.6		11.6	*	27.8		50.3		57.3		0.71	*	71.5		3349		15497	*
NK Brand	NK1755-5222	117	29.1		13.4	*	4.7	*	12.0	*	27.2		50.7		57.2		0.70		70.8		3291		15428	*
FS	FS 65R87SS	115	38.7	*	13.7	*	4.8	*	9.9		25.0	*	48.0	*	60.3		0.68		69.7		3170		15149	*
Pioneer Brand	P1380Q	113	38.0	*	10.5		3.7		10.1		28.1		49.2	*	50.4	*	0.66		65.6		2949		10883	
	Site Average		35.0		14.0		4.9		10.8		27.1		49.5		58.4		0.70		70.4		3246		15957	
	LSD (0.10)		3.6		2.2		0.8		1.0		1.9		3.1		4.4		0.02		2.3		162		2623	
	C.V.		8.7		13.4		13.4		7.5		5.9		5.2		6.2		2.85		2.8		4		14	

1Days to maturity provided by company; differences in maturity rating methods may exist between companies.
* Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre.

Table 6. Two-year corn silage test results at the Southern Piedmont AREC, Blackstone, VA 2021 and 2022.

Brand	Hybrid	DTM[1]	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest.	NE_L	TDN	Milk2006	Milk2006
		--Days--	%	ton/acre	ton/acre	----------%----------				Mcal/lb	%	lb milk/ton	lb milk/acre
NK Brand	NK1748-3110	117.0	32.4	19.0 *	6.7 *	9.8 *	26.5 *	47.6 *	63.5	0.64 *	61.5 *	2677 *	15882 *
FS	FS 65R87SS	115.0	36.0 *	18.8 *	6.6 *	8.4	25.0 *	46.0 *	61.1	0.61 *	58.0	2448	14755 *
FS	FS 6595X RIB	115.0	36.2 *	19.0 *	6.7 *	9.9 *	25.1 *	46.7 *	60.8	0.60	57.4	2400	14907 *
FS	FS 6818X RIB	118.0	34.1 *	18.6 *	6.5 *	9.4 *	28.8	52.1	58.6 *	0.59	55.9	2348	13999 *
Pioneer Brand	P1380Q	113.0	35.7 *	18.7 *	6.5 *	9.2 *	27.9	48.8	56.9 *	0.59	55.2	2298	12473
	Site Average		34.9	18.8	6.6	9.4	26.6	48.3	60.2	0.61	57.6	2434	14403
	LSD (0.10)		2.2	2.9	1.0	1.0	1.7	2.4	3.0	0.02	2.4	154	1929
	C.V.		6.9	16.8	16.8	12.0	6.7	5.5	5.3	4.17	4.5	4	14

1Days to maturity provided by company; differences in maturity rating methods may exist between companies.
*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre.

Table 7. Corn silage test results at the Northern Piedmont Center, Orange, VA in 2022.

Brand	Hybrid	DTM[1]	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest.	NE_L	TDN	Milk2006	Milk2006
		--Days--	%	ton/acre	ton/acre	----------%----------				Mcal/lb	%	lb milk/ton	lb milk/acre
NK Brand	NK1755-5222	117	38.1	25.6	9.0	7.6 *	34.5 *	57.1 *	63.0	0.58	62.3	2519	31975 *
Mid-Atlantic	MA8141SSRIB	114	40.2	31.3 *	11.0 *	6.8 *	33.4 *	58.0 *	65.3	0.58	63.1 *	2554	31712 *
Seedway	SX 142 VT	114	38.5	27.8 *	9.7 *		33.8 *	55.7 *	60.7	0.61 *	64.3 *	2718 *	30380 *
Seedway	SW 1579VT	115	35.7	21.5	7.5	7.0 *	38.6	64.8	63.3	0.56	61.2	2417	28755 *
Mid-Atlantic	MA5144DCEZ	114	40.9	29.5 *	10.3 *	7.9 *	34.5 *	56.2 *	65.2	0.62 *	66.2 *	2809 *	28193 *
NK Brand	NK1748-3110	117	38.3	33.3 *	11.6 *	7.8 *	29.8 *	53.0 *	62.2	0.62 *	65.0 *	2762 *	26958 *
Mid-Atlantic	MA5083DCEZ	108	38.5	25.9	9.1	6.4	39.6	59.9 *	63.1	0.59 *	63.3 *	2599 *	26400 *
FS	FS 6595X RIB	115	38.6	29.7 *	10.4 *	6.6	35.9 *	56.8 *	59.5 *	0.58	61.6	2529	26281 *
Redtail	RT 64T39-D1	114	38.9	27.7	9.7 *	6.4	37.0	58.5 *	62.8	0.58	62.4	2524	25599 *
Pioneer Brand	P1587Q	115	35.2	23.4	8.2	6.9 *	37.8	59.2 *	52.7 *	0.55	56.9	2249	25303 *
FS	FS 6306T RIB	113	42.7 *	31.2 *	10.9 *	7.6 *	32.1 *	52.6 *	61.9	0.61 *	64.2 *	2698 *	25247 *
Seedway	SW 1345TR	113	40.1	26.7	9.4	7.8 *	38.8	60.6	67.0	0.62 *	67.1 *	2841 *	25184 *
Pioneer Brand	P1380Q	113	45.5 *	18.0	6.3	5.6	41.9	65.2	67.9	0.58	64.3 *	2588 *	24856 *
FS	FS 6818X RIB	118	38.5	25.0	8.7	7.7 *	35.7 *	57.4 *	58.6 *	0.61 *	63.4 *	2686 *	24303 *
Seedway	SW 1781VT	117	39.3	24.2	8.5	7.0 *	36.1 *	59.8 *	62.0	0.60 *	64.0 *	2664 *	23913 *
NK Brand	NK1838-3110	118	36.0	32.3 *	11.3 *	8.6 *	32.6 *	56.4 *	59.7 *	0.60 *	63.1 *	2642 *	23833 *
FS	FS 65R87SS	115	38.4	24.8	8.7	7.1 *	36.4 *	59.2 *	64.2	0.60 *	64.5 *	2680 *	23070 *
Mid-Atlantic	MA5168VIP3220	116	36.3	25.7	9.0	7.9 *	30.7 *	52.5 *	61.3	0.62 *	64.7 *	2752 *	22057
Mid-Atlantic	MA5161DCVIPEZ	116	38.0	30.2 *	10.6 *	7.4 *	32.1 *	54.2 *	61.9	0.59 *	62.5	2561	17745
Redtail	RT 65T09-D1	115	41.7	35.1 *	12.3 *	7.6 *	--	--	--	--	--	--	--
	Site Average		38.9	26.9	9.4	7.2	35.5	57.9	62.2	0.60	63.4	2624	26334
	LSD (0.10)		3.7	7.3	2.5	1.8	6.8	7.6	7.0	0.04	4.2	264	9795
	C.V.		8.1	22.4	22.4	16.0	12.6	8.7	7.5	4.16	4.4	7	25

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre.

Table 8. Two-year corn silage test results at the Northern Piedmont Center, Orange, VA 2021 and 2022.

Brand	Hybrid	DTM[1]	DM at Harvest		Yield at 35% DM		DM Yield		Crude Protein		ADF		NDF		NDF Digest.		NE_L		TDN		Milk2006		Milk2006	
		--Days--	%		ton/acre		ton/acre		----------%----------								Mcal/lb		%		lb milk/ton		lb milk/acre	
NK Brand	NK1748-3110	117	39.2		24.9	*	8.7	*	8.3		30.9	*	52.8	*	67.7		0.48	*	46.0	*	2138	*	17074	
Pioneer Brand	P1380Q	113	42.6	*	15.3		5.4		8.0		33.9		54.7	*	62.7	*	0.49	*	48.3	*	1997	*	16480	
FS	FS 65R87SS	115	40.7	*	19.9		7.0		8.2		32.6	*	52.9	*	65.7	*	0.52	*	50.6	*	2156	*	15731	
Seedway	SW 1579VT	115	41.5	*	17.8		6.2		7.9		32.9	*	55.7	*	66.7		0.45		43.0	*	1811		14533	
FS	FS 6818X RIB	118	40.4	*	19.9		7.0		7.5		33.7		55.1	*	69.0		0.45		42.9	*	2046	*	14360	
FS	FS 6595X RIB	115	41.6	*	19.0		6.6		7.9		33.3	*	55.5	*	67.9		0.50	*	49.6	*	2020	*	14031	
Redtail	RT 65T09-D1	115	40.9	*	17.1		6.0		8.3	*	32.9	*	54.9	*	69.5		0.42		37.7		1516		7522	
	Site Average		41.2		18.0		6.3		8.1		33.1		55.2		68.7		0.46		43.6		1768		10776	
	LSD (0.10)		2.4		2.3		0.8		0.8		2.8		4.2		3.8		0.06		8.1		248		4506	
	C.V.		7.0		13.8		13.8		10.1		8.8		7.9		5.9		13.43		18.1		13		31	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre.

Table 9. Corn silage test results at the Shenandoah Valley location, Timberville, VA in 2022.

Brand	Hybrid	DTM[1]	DM at Harvest		Yield at 35% DM		DM Yield		Crude Protein	ADF		NDF		NDF Digest.		NE_L		TDN		Milk2006		Milk2006	
		Day	%		ton/acre		ton/acre		----------%----------							Mcal/lb		%		lb milk/ton		lb milk/acre	
Seedway	SX 142 VT	114	54.7		39.3	*	13.7	*	6.8	36.4		56.5		56.7	*	0.56	*	59.16	*	2365	*	32514	*
FS	FS 6306T RIB	113	69.4	*	34.2	*	12.0	*	6.4	32.0	*	57.7		55.0	*	0.58	*	61.06	*	2504	*	31907	*
Augusta	A6362	112	62.2	*	37.5	*	13.1	*	6.6	37.1		55.1		57.8		0.55	*	57.12	*	2258		31196	*
Augusta	A5563	113	55.5		33.7	*	11.8	*	7.0	36.0		54.7		57.1		0.55	*	58.09	*	2310	*	30032	*
Augusta	A1265	115	58.0		35.1	*	12.3	*	6.8	32.9	*	55.3		52.8	*	0.57	*	59.63	*	2421	*	29488	*
Augusta	A1964	114	59.4		29.1	*	10.2	*	6.4	38.1		54.6	*	61.4		0.53		56.19		2165		28436	*
FS	FS 65R87SS	115	60.1		31.5	*	11.0	*	6.9	33.7	*	54.8		59.3		0.56	*	58.08	*	2325	*	28277	*
Augusta	A1466	116	53.7		35.2	*	12.3	*	6.5	38.7		55.3		59.2		0.55	*	57.97	*	2293	*	27757	*
Redtail	RT 64T39-D1	114	48.8		22.2		7.8		6.9	31.1	*	59.3		48.9	*	0.61	*	63.69	*	2695	*	26589	*
Mid-Atlantic	MA5144DCEZ	114	62.0	*	36.9	*	12.9	*	6.4	39.6		51.2	*	64.0		0.51		53.33		1998		26582	*
Augusta	A4961	111	55.1		32.5	*	11.4	*	8.0	36.5		55.0		58.6		0.54		56.92		2208		25675	*
NK Brand	NK1838-3110	118	55.7		28.6	*	10.0	*	7.6	35.3		54.4	*	58.3		0.55	*	57.44	*	2261		24856	*
Seed Consultants	SC1183AM™	118	61.5	*	24.0		8.4		6.4	35.9		55.6		59.1		0.56	*	58.53	*	2334	*	24525	*
NK Brand	NK1748-3110	117	56.2		31.5	*	11.0	*	6.9	39.6		55.8		62.6		0.53		56.52		2174		23829	*
Mid-Atlantic	MA8141SSRIB	114	57.9		26.0		9.1		7.0	30.2	*	58.2		52.3	*	0.59	*	62.09	*	2585	*	23547	*
Seedway	SW 1781VT	117	63.7	*	31.9	*	11.2	*	5.8	39.4		54.3	*	65.3		0.53		55.58		2137		23389	*
Mid-Atlantic	MA5161DCVIPEZ	116	58.3		33.5	*	11.7	*	7.0	39.4		49.2	*	62.4		0.51		52.51		1959		23315	*
FS	FS 6818X RIB	118	61.0		28.5	*	10.0	*	6.3	37.6		56.3		62.7		0.56	*	58.66	*	2338	*	23288	*
Seed Consultants	SC1170AM™	117	58.9		21.5		7.5		6.6	37.7		61.5		62.1		0.55	*	59.95	*	2348	*	22784	*
Seed Consultants	SC1093AM™	109	65.9	*	28.9	*	10.1	*	7.1	30.0	*	57.0		51.9	*	0.58	*	60.80	*	2495	*	22658	*
Seed Consultants	SC1112AM™	111	63.4	*	27.5		9.6		7.0	40.6		57.5		63.7		0.52		56.30		2130		20246	
NK Brand	NK1755-5222	117	53.3		24.3		8.5		7.2	34.9	*	56.1		57.2		0.56	*	58.71	*	2342	*	20067	
Seedway	SW 1579VT	115	53.7		26.1		9.1		6.6	37.6		56.8		60.5		0.54		57.85	*	2263		19938	
FS	FS 62ZX1 RIB	112	55.0		24.6		8.6		6.6	36.6		54.2	*	61.3		0.53		56.04		2159		18026	
FS	FS 6595X RIB	115	54.4		22.3		7.8		6.9	38.3		55.1		61.2		0.54		57.36	*	2249		17735	
Mid-Atlantic	MA5083DCEZ	108	59.2		22.8		8.0		7.1	35.8		51.5	*	59.4		0.53		55.25		2143		17235	
Pioneer Brand	P1587Q	115	53.0		23.2		8.1		7.1	35.3		60.3		58.6		0.56	*	59.66	*	2368	*	17189	
Mid-Atlantic	MA5168VIP3220	116	60.8		23.2		8.1		6.6	36.8		51.0	*	61.7		0.52		54.25		2080		16860	
Redtail	RT 65T09-D1	115	53.1		18.2		6.4		6.8	32.6	*	53.7	*	55.8	*	0.56	*	58.24	*	2335	*	16146	

Brand	Hybrid	DTM[1]	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest.	NE_L	TDN	Milk2006	Milk2006
		Day	%	ton/acre	ton/acre	----------%----------				Mcal/lb	%	lb milk/ton	lb milk/acre
Seed Consultants	SC1122Q™	112	56.6	19.5	6.8	7.9	31.6 *	54.4 *	53.7 *	0.57 *	59.18 *	2397 *	15855
Seedway	SW 1345TR	113	64.2 *	22.6	7.9	5.8	39.8	60.1	66.2	0.52	56.77	2139	15245
Augusta	A6262	112	64.3 *	22.2	7.8	5.8	43.3	47.1 *	71.9	0.45	46.65	1565	12114
Pioneer Brand	P1380Q	113	---	---	---	9.7 *	35.2	52.7 *	58.7	0.52	54.84	2079	---
	Site Average		58.0	28.5	10.0	6.8	35.9	55.4	58.7	0.55	57.87	2288	23665
	LSD (0.10)		8.2	11.2	3.9	1.3	5.0	7.6	7.9	0.06	6.57	409	9892
	C.V.		11.9	29.6	29.6	13.9	10.2	10.0	10.3	7.65	8.32	13	30

1Days to maturity provided by company; differences in maturity rating methods may exist between companies.
*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre. --- Denotes missing data due to poor stand

Table 10. Two-year corn silage test results at the Shenandoah Valley location, Windcrest Holsteins Timberville, VA 2021 and 2022.

Brand	Hybrid	DTM[1]	DM at Harvest		Yield at 35% DM		DM Yield		Crude Protein		ADF		NDF		NDF Digest.		NE_L		TDN		Milk2006		Milk2006	
		Days	%		ton/acre		ton/acre		----------					%----------			Mcal/lb		%		lb milk/ton		lb milk/acre	
Augusta	A6362	112	56.5	*	26.4	*	9.5	*	8.4		31.4		52.4	*	60.0		0.55		57.12		2258		31196	*
FS	FS 65R87SS	115	51.2		21.4	*	8.3	*	8.2		29.7	*	53.3	*	58.6	*	0.59		61.70	*	2564	*	22130	
Seed Consultants	SC1170AM™	117	52.2	*	18.3		7.0		8.8		31.9		55.1		60.6		0.58		61.75	*	2507	*	20945	
FS	FS 6818X RIB	118	52.1	*	21.7	*	8.4	*	8.7		32.3		55.5		58.2	*	0.58		60.84	*	2493	*	20678	
Mid-Atlantic	MA5161DCVIPEZ	116	53.1	*	25.7	*	9.5	*	9.6		31.6		54.8		54.4	*	0.54		56.29		2203		20405	
NK Brand	NK1748-3110	117	48.7		22.6	*	8.6	*	8.9		31.8		55.6		57.9	*	0.57		59.83		2413		20174	
Seed Consultants	SC1112AM™	111	52.4	*	22.4	*	8.5	*	9.2		30.7		54.7		61.7		0.58		61.06	*	2481	*	20010	
Pioneer Brand	P1380Q	113	38.7		15.7		7.1		10.7	*	28.4	*	50.2	*	59.9		0.60	*	62.30	*	2598	*	19666	
Mid-Atlantic	MA5083DCEZ	108	50.7		19.8		7.9	*	9.3		30.7		53.0	*	55.7	*	0.57		59.40		2414		19158	
Seedway	SW 1579VT	115	47.2		19.5		7.7	*	8.6		31.9		54.2		60.3		0.58		61.59	*	2525	*	18926	
Mid-Atlantic	MA8141SSRIB	114	47.8		17.2		6.6		9.4		27.8	*	50.1	*	60.1		0.61	*	64.05	*	2724	*	17744	
FS	FS 6595X RIB	115	48.7		18.0		6.8		8.9		31.7		55.1		58.5	*	0.58		60.62	*	2472		16697	
Redtail	RT 65T09-D1	115	47.6		15.0		6.0		8.0		29.9	*	53.1	*	57.2	*	0.58		60.95	*	2513	*	16429	
Seed Consultants	SC1122Q™	112	48.8		16.0		6.4		9.6		28.4	*	51.1	*	58.0	*	0.59		61.74	*	2562	*	16167	
	Site Average		49.7		20.0		7.7		9.0		30.6		53.4		58.7		0.6		60.7		2480.5		20023.3	
	LSD (0.10)		4.8		5.8		2.1		0.7		2.3		3.2		4.7		0.03		4.1		246		6419	
	C.V.		10.4		29.0		29.0		8.6		8.1		6.5		8.7		5.24		6.1		9		29	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre.

Table 11. Corn silage test results at the Southwest Virginia AREC, Glade Spring, VA in 2022.

Brand	Hybrid	DTM[1]	DM at Harvest		Yield at 35% DM		DM Yield		Crude Protein		ADF		NDF		NDF Digest.		NE_L		TDN		Milk2006		Milk2006	
		Days	%		ton/acre		ton/acre		----------%----------								Mcal/lb		%		lb milk/ton		lb milk/acre	
Mid-Atlantic	MA5144DCEZ	114	41.3	*	40.0	*	14.0	*	7.3		27.3		43.7	*	57.6		0.63	*	65.2	*	2828	*	39193	*
Seed Consultants	SC1093AM™	109	48.1	*	39.9	*	14.0	*	7.7		24.9	*	41.7	*	56.8		0.61		63.6		2705		38160	*
NK Brand	NK1838-3110	118	41.2	*	39.1	*	13.7	*	7.7		25.7	*	44.0	*	57.6		0.63	*	64.7	*	2790	*	37802	*
FS	FS 6306T RIB	113	43.7	*	40.1	*	14.0	*	7.4		26.7	*	46.3	*	55.9		0.61		62.8		2653		37088	*
NK Brand	NK1748-3110	117	41.1	*	35.6		12.5	*	7.8		26.2	*	46.2	*	57.1		0.61		63.5		2699		33653	*
Mid-Atlantic	MA5083DCEZ	108	43.4	*	34.0		11.9	*	7.9		24.1	*	43.0	*	57.5		0.62		64.2	*	2752	*	32813	*
NK Brand	NK1755-5222	117	42.0	*	32.7		11.5	*	7.6		26.8	*	44.8	*	57.9		0.61		63.6		2700		30886	*
Mid-Atlantic	MA8141SSRIB	114	38.4		29.9		10.5		7.2		24.5	*	44.0	*	56.9		0.65	*	66.2	*	2916	*	30219	
Seed Consultants	SC-EX113	113	42.0	*	31.7		11.1		7.5		24.6	*	43.9	*	56.3		0.62		64.1	*	2749	*	30201	
FS	FS 6818X RIB	118	44.1	*	32.8		11.5	*	7.4		25.7	*	48.3		56.6		0.60		62.5		2630		30016	
Seed Consultants	SC1112AM™	111	41.1	*	29.8		10.4		7.1		27.6		45.8	*	59.2		0.62		64.5	*	2754	*	28522	
Pioneer Brand	P1587Q	115	40.3		28.4		9.9		8.0		25.4	*	43.6	*	57.8		0.63	*	65.0	*	2814	*	27921	
Mid-Atlantic	MA5168VIP3220	116	40.4		28.2		9.9		7.3		26.7	*	45.7	*	58.5		0.63	*	65.0	*	2809	*	27792	
FS	FS 65R87SS	115	42.9	*	28.9		10.1		8.1		25.3	*	47.4		54.2		0.60		62.3		2636		26562	
Seed Consultants	SC1122Q™	112	43.2	*	26.9		9.4		7.5		26.5	*	45.6	*	57.9		0.60		63.0		2653		24907	
Seed Consultants	SC1183AM™	118	40.1		24.7		8.6		7.3		28.2		46.0	*	57.1		0.61		63.1		2669		23024	
Mid-Atlantic	MA5161DCVIPEZ	116	40.4		23.5		8.2		7.4		27.4		44.0	*	58.1		0.61		63.8		2714		22190	
FS	FS 6595X RIB	115	43.1	*	23.0		8.1		7.3		26.8	*	46.9		58.9		0.61		63.4		2670		21573	
Seed Consultants	SC1170AM™	117	39.6		21.7		7.6		8.3		26.5	*	46.7		57.1		0.62		63.9		2730	*	20826	
Pioneer Brand	P1380Q	113	42.2	*	9.0		3.1		9.4	*	31.8		50.4		50.5	*	0.53		55.1		2101		7009	
	Site Average		41.9		30.0		10.5		7.7		26.4		45.4		57.0		0.61		63.5		2699		28518	
	LSD (0.10)		7.4		9.4		3.3		0.9		3.271		4.7		1.9		0.03		2.2		173		8409	
	C.V.		14.8		26.2		26.2		10.0		10.5		8.7		2.8		3.66		2.9		5		25	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre.

Table 12. Two-year corn silage test results at the Southwest Virginia AREC, Glade Spring, VA 2021 and 2022.

Brand	Hybrid	DTM[1]	DM at Harvest		Yield at 35% DM		DM Yield		Crude Protein		ADF		NDF		NDF Digest.		NE_L		TDN		Milk2006		Milk2006	
		Days	%		ton/acre		ton/acre		----------%----------								Mcal/lb		%		lb milk/ton		lb milk/acre	
FS	FS 6818X RIB	118.0	44.6	*	32.6	*	11.4	*	7.6		27.5	*	49.4	*	57.7		0.55	*	55.7	*	2228	*	25389	*
NK Brand	NK1748-3110	117.0	42.9	*	31.4	*	11.0	*	7.9		27.5	*	48.7	*	57.6		0.56	*	56.0	*	2248	*	25387	*
Seed Consultants	SC1122Q™	112.0	43.8	*	31.2	*	10.9	*	7.7		27.5	*	47.0	*	59.2		0.56	*	56.6	*	2276	*	24269	*
Seed Consultants	SC1112AM™	111.0	39.9		29.1	*	10.2	*	7.6		29.2	*	46.8	*	60.0		0.57	*	57.2	*	2340	*	23886	*
FS	FS 65R87SS	115.0	41.9	*	30.0	*	10.5	*	8.0	*	28.4	*	50.4	*	56.3		0.56	*	55.4		2230	*	23015	*
Seed Consultants	SC1170AM™	117.0	42.4	*	26.8		9.4		8.1	*	27.4	*	48.6	*	57.9		0.57	*	57.4	*	2331	*	20966	*
FS	FS 6595X RIB	115.0	43.1	*	27.8	*	9.7	*	7.5		28.7	*	48.7	*	59.5		0.56	*	56.7	*	2278	*	20705	
Pioneer Brand	P1380Q	113.0	42.8	*	20.9		7.3		8.5	*	30.8		49.5	*	54.2	*	0.52		52.1		1964		13988	
	Site Average		42.7		28.7		10.1		7.9		28.4		48.6		57.8		0.55		55.9		2237		22201	
	LSD (0.10)		4.9		5.4		1.9		0.6		2.3		3.6		1.7		0.02		1.7		116		4442	
	C.V.		13.4		21.9		21.9		8.4		9.6		8.8		3.5		3.72		3.6		6		23	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
*Indicates numbers not significantly different from the highest (or lowest for ADF and NDF) value in that column, i.e. within one LSD of the top performer.
Note: Hybrids are listed in descending order of lb milk/acre.

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