



## Virginia Corn Silage Hybrid Trials in 2020

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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 2020 as well as two- and three-year 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 2020, 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.

## Companies Participating in the 2020 Virginia Tech Corn Silage Hybrid Trials

Company	Brand	Address
AgReliant Genetics, LLC	LG Seeds	1122 E. 169 <sup>th</sup> St., Westfield, IN 46074
Augusta Seed	Augusta Seed	PO Box 899, Verona, VA 24482
Caverndale Farms Brand Seed	Caverndale Farms	1921 Bluegrass Pike, Danville, KY 40422
Corteva Agriscience Ag. Division Dow/Dupont	Pioneer	7200 NW 62 <sup>nd</sup> Ave., Johnston, IA 50131
Erwin-Keith, Inc.	Progeny Ag Products	1529 Hwy 193, Wynne, AR 72396
Mid-Atlantic Seeds	Mid-Atlantic	204 St. Charles Way #163, York, PA 17402
Nutrien Ag Solutions	Dyna-Gro	396 Washington St., Boydton, VA 23917
Seed Consultants, Inc.	Seed Consultants	648 Miami Trace Rd., Washington Court House, OH 43160
Syngenta Seeds	NK Brand	4013 Fairmount Pike, Signal Mountain, TN 37377

# 2020 Virginia Tech Corn Silage Hybrid Trials Plot Information

(Rates are on a per acre basis.)

## **Blackstone (Southern Piedmont Agricultural Research & Extension Center)**

Planted: April 17, 2020 conventional tillage  
Harvested: August 5, 2020  
Pesticide: 1 pt Brawl + 1 qt atrazine April 17, 2020; 5 lb Force 3G® at planting  
Fertilizer: 1000 lb 10-10-10 pre-plant incorporated April 3, 2020; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 80 lb N top-dressed using UAN May 21, 2020  
Population: 29,882 ppa  
Plot Size: 2 rows 25' x 30" 4 replications  
Soil Type: Appling sandy loam  
Cooperator: Ned Jones

## **Orange (Northern Piedmont Center)**

Planted: April 22, 2020 no-till  
Harvested: August 20, 2020  
Pesticide: 1.5 qt Acuron® + 2 qt glyphosate + 1 pt atrazine April 17, 2020 pre-plant; 5 lb Force 3G® at planting  
Fertilizer: 40-100-60 April 21, 2020; 70 lb N side-dressed June 15, 2020  
Population: 28,262 ppa  
Plot Size: 2 rows 25' x 30" 4 replications  
Soil Type: Davidson clay  
Cooperator: Greg Lillard

## **Shenandoah Valley (Timberville - Thanks to David Yutzy and Windcrest Holsteins)**

Planted: May 15, 2020 no-till after rye silage  
Harvested: September 15, 2020  
Pesticide: 2 qt glyphosate preplant; 5 lb Force 3G® at planting; 2 qt Halex® + 5 oz Status® + 1 qt atrazine + crop oil when plants were 1-2' in height  
Fertilizer: 43 lb sulfur + 53 lb potash in January; 10,000 gallons dairy manure injected preplant; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 90 lb N from urea side-dressed  
Population: 31,643 ppa  
Cooperators: Doug Horn and David Yutzy

## **Washington County (Southwest Virginia Agricultural Research & Extension Center)**

Planted: May 12, 2020 no-till  
Harvested: September 14, 2020  
Pesticide: 28 oz atrazine + 3 qt Acuron® + 1 qt glyphosate pre-plant; 5 lb Force 3G® at planting  
Fertilizer: 140-60-80-25S preplant; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 100 lb N side-dressed V6  
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 2020 Virginia Tech Corn Silage Hybrid Test.

Company	Brand	Hybrid	DTM <sup>1</sup>	Insecticidal Seed Treatment	Genetic Trait Package	OBS <sup>2</sup>
Augusta Seed	Augusta	A5262	112	Cruiser Maxx® 1250	Agrisure 3000GT	1
Augusta Seed	Augusta	A5663-3000GT	113	Cruiser Maxx® 1250	Agrisure 3000GT	1
Augusta Seed	Augusta	A4463	113	Cruiser Maxx® 1250	VT Double PRO	2
Augusta Seed	Augusta	A1367	117	Cruiser Maxx® 1250	Agrisure Viptera 3220 E-Z Refuge	2
Augusta Seed	Augusta	A9967	117	Cruiser Maxx® 1250	Agrisure 3000GT	2
Augusta Seed	Augusta	A7768	118	Cruiser Maxx® 250	Agrisure Viptera 3110	1
Caverndale Farms	Caverndale Farms	CF 753 GTCBLL	107	Cruiser Maxx® 250 + Vibrance®	Agrisure 3010	1
Caverndale Farms	Caverndale Farms	CF 794 VIP 3111	109	Cruiser Maxx® 250 + Vibrance®	Agrisure Viptera 3111	1
Caverndale Farms	Caverndale Farms	CF 814 3000GT	112	Avicta® 500 + Vibrance®	Agrisure 3000GT	1
Caverndale Farms	Caverndale Farms	CF 859 VIP 3111	114	Cruiser Maxx® 250 + Vibrance®	Agrisure Viptera 3111	1
Caverndale Farms	Caverndale Farms	CF 889 VIP 3111	117	Avicta® 500 + Vibrance®	Agrisure Viptera 3111	1
Nutrien Ag Solutions	Dyna-Gro	D53VC33	113	Acceleron® 500/Poncho® 500/VOTIVO®500 EDC	VT Double PRO	1
Nutrien Ag Solutions	Dyna-Gro	D55VC80	115	Acceleron® 500/Poncho® 500/VOTIVO®500 EDC	VT Double PRO	1
Nutrien Ag Solutions	Dyna-Gro	D57VC17	117	Acceleron® 500/Poncho® 500/VOTIVO®500 EDC	VT Double PRO	1
Nutrien Ag Solutions	Dyna-Gro	D58VC65	118	Acceleron® 500/Poncho® 500/VOTIVO®500 EDC	VT Double PRO	1
AgReliant Genetics	LG Seeds	LG62C35VT2RIB	112	Poncho® 500/VOTIVO® EDC	VT Double PRO RIB Complete	2
AgReliant Genetics	LG Seeds	LG66C32VT2RIB	116	Poncho® 500/VOTIVO® EDC	VT Double PRO RIB Complete	2
Mid-Atlantic Seeds	Mid-Atlantic	MA8141DGVT2P	114	Acceleron® 250	VT Double PRO	1
Mid-Atlantic Seeds	Mid-Atlantic	MA8158SS	115	Acceleron® 250	SmartStax	1
Mid-Atlantic Seeds	Mid-Atlantic	MA5166GT3VIP	116	Cruiser Maxx® 250	Agrisure Viptera 3111	1
Mid-Atlantic Seeds	Mid-Atlantic	MA5161VIP3220EZ	116	Cruiser Maxx® 250	Agrisure Viptera 3220 E-Z Refuge	1
Mid-Atlantic Seeds	Mid-Atlantic	MA5165GT3	116	Cruiser Maxx® 250	Agrisure 3000GT	1
Syngenta Seeds	NK Brand	NK1677-3110	116	Avicta® 1250 + Vibrance®	Agrisure Viptera 3110	2
Syngenta Seeds	NK Brand	NK1748-3110	117	Avicta® 1250 + Vibrance®	Agrisure Viptera 3110	2
Corteva Agriscience	Pioneer Brand	P1197AMXT	111	Poncho® 250	AcreMax Xtreme	4
Corteva Agriscience	Pioneer Brand	P1380Q	113	Poncho® 250	QROME	4
Corteva Agriscience	Pioneer Brand	P1415Q	114	Poncho® 250	QROME	4
Corteva Agriscience	Pioneer Brand	P1847AMXT	118	Poncho® 250	AcreMax Xtreme	4
Erwin-Keith Inc	Progeny Ag Products	PGY 9117VT2P	117	Poncho® 500/VOTIVO®500 EDC/B360	VT Double PRO	4
Erwin-Keith Inc	Progeny Ag Products	PGY 7118VT2P	118	Poncho® 500/VOTIVO®500 EDC/B360	VT Double PRO	4
Seed Consultants	Seed Consultants	SCS 1111Q™	111	Poncho® 1250/VOTIVO®	QROME	4
Seed Consultants	Seed Consultants	SC 1121AM™	112	Poncho® 1250/VOTIVO®	AcreMax	4
Seed Consultants	Seed Consultants	SCS 1141AM™	114	Poncho® 1250/VOTIVO®	AcreMax	4
Seed Consultants	Seed Consultants	SCS 1158AM™	115	Poncho® 500/VOTIVO®	AcreMax	4
Seed Consultants	Seed Consultants	SCS 1168AM™	116	Poncho® 500/VOTIVO®	AcreMax	4
Seed Consultants	Seed Consultants	SCS 1170AM™	117	Poncho® 1250/VOTIVO®	AcreMax	4
Seed Consultants	Seed Consultants	SCS 1188AM™	118	Poncho® 500/VOTIVO®	AcreMax	4

<sup>1</sup> Days to maturity (DTM) provided by company; differences in maturity rating methods may exist.

<sup>2</sup> Number of observations hybrid occurred; the greater the observations, the more reliable the data. Note: Shaded hybrids indicate hybrids entered in less than 3 locations. Hybrids are sorted by Brand, then DTM.

Table 2. 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)			
		B	C	E	F	S	S	T	W	W	C	R		G	L	E				
		C	E	C	A	S	C	W	A	B	C	R		R	L	E				
AcreMax (AM)	Cry1Ab Cry1F	x	x	x	x	x	x	x									x	x	5% in bag	
AcreMax CRW (AMRW)	Cry34/35Ab1																	x	x	10% in bag
AcreMax1 (AM1)	Cry1F Cry34/35Ab1	x		x	x	x	x	x									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 TRIssect (AMT)	Cry1Ab Cry1F mCry3A	x	x	x	x	x	x	x									x	x	10% in bag	
AcreMax Xtra (AMX)	Cry1Ab Cry1F Cry34/35Ab1	x	x	x	x	x	x	x									x	x	10% in bag	
AcreMax Xtreme (AMXT)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x									x	x	5% in bag	
Agrisure 3010 (BR)	Cry1Ab		x	x			x	x									x	x	20%	
Agrisure 3000GT & 3011A	Cry1Ab mCry3A		x	x			x	x									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						x	x	20%	
Agrisure 3120 E-Z Refuge (BZ)	Cry1Ab Cry1F	x	x	x	x	x	x	x									x		5% in bag	
Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x									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		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						x		5% in bag	
Herculex I (HXI)	Cry1F	x		x	x	x	x	x									x	x	20%	
Herculex RW (HXRW)	Cry34/35Ab1																x	x	20%	
Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	x		x	x	x	x	x									x	x	20%	
Intrasect (YHR)	Cry1Ab Cry1F	x	x	x	x	x	x	x									x	x	5%	
Intrasect TRIssect (CYHR)	Cry1Ab Cry1F mCry3A	x	x	x	x	x	x	x									x	x	20%	
Intrasect Xtra (YXR)	Cry1Ab Cry1F Cry34/35Ab1	x	x	x	x	x	x	x									x	x	20%	
Intrasect Xtreme (CYXR)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x									x	x	5%	
Leptra (VYHR)	Cry1Ab Cry1F Vip3A	x	x	x	x	x	x	x	x	x							x	x	5%	
Powercore <sup>a</sup> (PW)	Cry1A.105/Cry2Ab2	x	x	x	x	x	x	x									x	x	<sup>a</sup> 5%	
PW Refuge Advanced <sup>b</sup> (PWRA)	Cry1F																		<sup>b</sup> 5% in bag	
Powercore Enlist (PWE)	Same as Powercore	x	x	x	x	x	x	x									x	x	5% in bag	
QROME (Q)	Cry1Ab Cry1F mCry3A Cry34/35Ab1	x	x	x	x	x	x	x									x	x	5% in bag	
SmartStax <sup>a</sup> (SX,STX or SS)	Cry1A.105/Cry2Ab2	x	x	x	x	x	x	x									x	x	<sup>a</sup> 5%	
STX Refuge Advanced <sup>b</sup> (SXRA)	Cry1F Cry3Bb1																		<sup>b</sup> 5% in bag	
STX RIB Complete <sup>b</sup> (STXRIB)	Cry34/35Ab1																			
SmartStax Enlist (SXE)	Same as SmartStax	x	x	x	x	x	x	x									x	x	5% in bag	
Trecepta <sup>a</sup> (TRE)	Cry1A.105/Cry2Ab2	x	x	x	x	x	x	x	x	x							x		<sup>a</sup> 5%	
Trecepta RIB Complete <sup>b</sup> (TRERIB)	Vip3A																		<sup>b</sup> 5% in bag	
TRIssect (CHR)	Cry1F mCry3A	x		x	x	x	x	x									x	x	20%	

See bag tag. E20 = no E21 = yes

VT DoublePRO <sup>a</sup> VT2P RIB Complete <sup>b</sup>	(VT2P) (VT2PRIB)	Cry1A.105/Cry2Ab2	x	x	x	x	x	x			CEW	x		<sup>a</sup> 5% <sup>b</sup> 5% in bag
VT TriplePRO <sup>c</sup> VT3P RIB Complete <sup>d</sup>	(VT3P) (VT3PRIB)	Cry1A.105/Cry2Ab2 Cry3Bb1	x	x	x	x	x	x		x	CEW NCR WCR	x		<sup>c</sup> 20% <sup>d</sup> 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 3. Multi-year, multi-site relative ton per acre (yield).

Brand	Hybrid	DTM per Co. <sup>1</sup>	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs. <sup>2</sup>
			2020	2019	2020	2019	2020	2019	2020	2019		
-----Relative Ton per Acre <sup>3</sup> -----												
Mid-Atlantic	MA8141DGVT2P	114	129 *	112 *	---	---	---	---	---	---	120	2
Pioneer Brand	P1380Q	113	145 *	---	120 *	---	104	---	91	---	115	4
Seed Consultants	SCS 1158AM™	115	124 *	120 *	113 *	111 *	111 *	105 *	132 *	102 *	115	8
Caverndale Farms	CF 859 VIP 3111	114	---	---	---	---	---	---	107	119 *	113	2
NK Brand	NK1748-3110	117	103	---	---	---	122 *	---	---	---	113	2
Mid-Atlantic	MA5166GT3VIP	116	98	125 *	---	---	---	---	---	---	111	2
Augusta	A1367	117	120	128 *	---	---	---	---	83	---	110	3
NK Brand	NK1677-3110	116	112	---	---	---	101	---	---	---	106	2
Dyna-Gro	D57VC17	117	---	---	---	---	102	109 *	---	---	106	2
Augusta	A9967	117	---	95	101	110 *	---	99	113 *	112 *	105	6
Dyna-Gro	D55VC80	115	---	---	106 *	103	---	---	---	---	105	2
Augusta	A5663-3000GT	113	87	122 *	---	---	---	---	---	---	105	2
Seed Consultants	SCS 1188AM™	118	94	97	109 *	99	101	108 *	102	115 *	103	8
Seed Consultants	SCS 1168AM™	116	106	94	96	105	96	104	109	114 *	103	8
Pioneer Brand	P1415Q	114	104	---	101	---	111 *	---	94	---	103	4
Seed Consultants	SC 1121AM™	112	92	---	95	---	111 *	---	112 *	---	103	4
Seed Consultants	SCS 1111Q™	111	113	---	108 *	---	85	---	100	---	102	4
Mid-Atlantic	MA5165GT3	116	101	---	---	---	---	---	---	---	101	1
Seed Consultants	SCS 1141AM™	114	112	---	106 *	---	81	---	100	---	100	4
Mid-Atlantic	MA8158SS	115	100	---	---	---	---	---	---	---	100	1
Dyna-Gro	D58VC65	118	---	---	---	---	103	94	---	---	99	2
Caverndale Farms Progeny Ag Products	CF 753 GTCBLL PGY 9117VT2P	107 117	---	---	---	---	---	---	98	99 *	98	2
Augusta	A5262	112	86	107 *	---	---	---	---	---	98 *	97	3
Augusta	A7768	118	---	---	---	---	---	---	95	97	96	2
Seed Consultants	SCS 1170AM™	117	93	---	93	---	102	---	95	---	96	4



Progeny Ag Products	PGY 7118VT2P	118	76	86	100	103	91	106	*	104	96	95	8	
Mid-Atlantic	MA5161VIP3220EZ	116	95	---	---	---	---	---	---	---	---	95	1	
Pioneer Brand	P1197AMXT	111	135	*	59	104	*	100	84	95	92	82	94	8
Caverndale Farms	CF 814 3000GT	112	---	---	---	---	---	---	---	99	88	94	2	
Augusta	A4463	113	81	---	104	*	---	---	---	---	---	93	2	
Caverndale Farms	CF 889 VIP 3111	117	---	---	---	---	---	---	---	92	---	92	1	
Pioneer Brand	P1847AMXT	118	87	---	88	---	103	---	88	---	---	92	4	
LG Seeds	LG66C32VT2RIB	116	79	---	104	---	---	---	---	---	---	91	2	
Caverndale Farms	CF 794 VIP 3111	109	---	---	---	---	---	---	---	88	---	88	1	
Dyna-Gro	D53VC33	113	---	---	84	---	---	---	---	---	---	84	1	
LG Seeds	LG62C35VT2RIB	112	80	---	82	---	---	---	---	---	---	81	2	

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

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

<sup>3</sup> 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.

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

\* Indicates numbers similar to the highest value in that column (i.e. within one LSD of the top performer.)

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

Table 4. Multi-year, multi-site relative milk per ton (quality).

Brand	Hybrid	DTM per Co. <sup>1</sup>	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs. <sup>2</sup>
			2020	2019	2020	2019	2020	2019	2020	2019		
-----Relative Milk per Ton <sup>3</sup> -----												
NK Brand	NK1748-3110	117	105 *	---	---	---	108 *	---	---	---	106	2
Augusta	A7768	118	---	---	---	---	---	---	96	114 *	105	2
Mid-Atlantic	MA5165GT3	116	105 *	---	---	---	---	---	---	---	105	1
NK Brand	NK1677-3110	116	110 *	---	---	---	99	---	---	---	105	2
Caverndale Farms	CF 889 VIP 3111	117	---	---	---	---	---	---	104 *	---	104	1
Mid-Atlantic	MA5161VIP3220EZ	116	104 *	---	---	---	---	---	---	---	104	1
Augusta	A5262	112	108 *	100	---	---	---	---	---	101	103	3
Pioneer Brand Progeny Ag Products	P1415Q	114	107 *	---	99	---	106 *	---	100 *	---	103	4
	PGY 9117VT2P	117	107 *	---	104 *	---	98	---	103 *	---	103	4
Caverndale Farms	CF 814 3000GT	112	---	---	---	---	---	---	97	108 *	103	2
Augusta	A1367	117	105 *	101	---	---	---	---	101 *	---	102	3
Mid-Atlantic	MA5166GT3VIP	116	101 *	103 *	---	---	---	---	---	---	102	2
Dyna-Gro	D57VC17	117	---	---	---	---	101 *	102 *	---	---	102	2
Seed Consultants	SCS 1170AM™	117	99 *	---	103 *	---	104 *	---	99 *	---	101	4
Caverndale Farms	CF 794 VIP 3111	109	---	---	---	---	---	---	101 *	---	101	1
Seed Consultants	SCS 1168AM™	116	99 *	101	100 *	102	103 *	99	97	107 *	101	8
Mid-Atlantic	MA8141DGVT2P	114	98	104 *	---	---	---	---	---	---	101	2
LG Seeds	LG62C35VT2RIB	112	100 *	---	101 *	---	---	---	---	---	100	2
Mid-Atlantic	MA8158SS	115	100 *	---	---	---	---	---	---	---	100	1
Pioneer Brand	P1380Q	113	95	---	100	---	98	---	106 *	---	100	4
Caverndale Farms	CF 753 GTCBLL	107	---	---	---	---	---	---	102 *	97	100	2
Pioneer Brand	P1847AMXT	118	100 *	---	100	---	99	---	99 *	---	100	4
Seed Consultants Progeny Ag Products	SC 1121AM™	112	94	---	100 *	---	100 *	---	103 *	---	99	4
	PGY 7118VT2P	118	105 *	101	98	98	92	101 *	95	105 *	99	8
Seed Consultants	SCS 1141AM™	114	96	---	106 *	---	90	---	105 *	---	99	4
Seed Consultants	SCS 1111Q™	111	92	---	92	---	103 *	---	109 *	---	99	4

Seed Consultants	SCS 1188AM™	118	101 *	100	103 *	98	101 *	100	98	92	99	8
Dyna-Gro	D53VC33	113	---	---	98	---	---	---	---	---	98	1
Augusta	A9967	117	---	99	102 *	101	---	98	93	96	98	6
Dyna-Gro	D58VC65	118	---	---	---	---	98	97	---	---	98	2
Caverndale Farms	CF 859 VIP 3111	114	---	---	---	---	---	---	96	99	98	2
Pioneer Brand	P1197AMXT	111	84	104 *	98	99	102 *	99	98 *	97	98	8
LG Seeds	LG66C32VT2RIB	116	98	---	98	---	---	---	---	---	98	2
Dyna-Gro	D55VC80	115	---	---	100	95	---	---	---	---	98	2
Augusta	A4463	113	96	---	98	---	---	---	---	---	97	2
Seed Consultants	SCS 1158AM™	115	96	99	99	89	99	98	92	96	96	8
Augusta	A5663-3000GT	113	91	98	---	---	---	---	---	---	94	2

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

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

<sup>3</sup> 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.

Note: Numbers over 100 indicate above-average quality, 100 indicates average quality, numbers under 100 indicate below-average quality.

\* Indicates numbers similar to the highest value in that column (i.e. within one LSD of the top performer.)

Note: Shading indicates hybrids that were in the highest quality group in at least three site years.

Table 5. Multi-year, multi-site relative milk per acre (yield X quality).

Brand	Hybrid	DT M per Co. <sup>1</sup>	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Numbe r of Obs. <sup>2</sup>	
			2020	2019	2020	2019	2020	2019	2020	2019			
-----Relative Milk per Acre <sup>3</sup> -----													
Mid-Atlantic	MA8141DGVT2P	114	126 *	116 *	---	---	---	---	---	---	121	2	
NK Brand	NK1748-3110	117	110	---	---	---	131 *	---	---	---	121	2	
Pioneer Brand	P1380Q	113	139 *	---	121 *	---	102	---	97	---	115	4	
Mid-Atlantic	MA5166GT3VIP	116	99	130 *	---	---	---	---	---	---	114	2	
Augusta	A1367	117	126 *	129 *	---	---	---	---	85	---	113	3	
Caverndale Farms	CF 859 VIP 3111	114	---	---	---	---	---	---	104 *	119 *	111	2	
NK Brand	NK1677-3110	116	124 *	---	---	---	99	---	---	---	111	2	
Seed Consultants	SCS 1158AM™	115	119 *	119 *	113 *	97	109	10	3	120 *	99 *	110	8
Dyna-Gro	D57VC17	117	---	---	---	---	103	11	2 *	---	---	107	2
Pioneer Brand	P1415Q	114	112	---	101	---	117 *	---	96	---	107	4	
Mid-Atlantic	MA5165GT3	116	106	---	---	---	---	10	---	---	106	1	
Seed Consultants	SCS 1168AM™	116	105	95	96	106	97	3	106 *	121 *	104	8	
Augusta	A9967	117	---	93	103	111	---	97	104 *	108 *	103	6	
Dyna-Gro	D55VC80	115	---	---	106	99	---	---	---	---	102	2	
Seed Consultants	SC 1121AM™	112	84	---	96	---	112 *	10	---	117 *	---	102	4
Seed Consultants	SCS 1188AM™	118	95	97	112 *	96	101	7	99	107 *	102	8	
Augusta Progeny Ag Products	A7768 PGY 9117VT2P	118 117	---	---	---	---	---	---	91	110 *	101	2	
Augusta	A5663-3000GT	113	101	---	89	---	95	---	117 *	---	101	4	
Augusta	A5262	113	82	119 *	---	---	---	---	---	---	100	2	
Augusta	A5262	112	94	108 *	---	---	---	---	---	99 *	100	3	
Seed Consultants	SCS 1111Q™	111	105	---	95	---	88	---	109 *	---	99	4	
Mid-Atlantic	MA8158SS	115	99	---	---	---	---	---	---	---	99	1	
Mid-Atlantic	MA5161VIP3220E Z	116	99	---	---	---	---	---	---	---	99	1	
Seed Consultants	SCS 1141AM™	114	104	---	112 *	---	73	---	105 *	---	98	4	
Seed Consultants	SCS 1170AM™	117	95	---	97	---	106	---	94	---	98	4	

Caverndale Farms	CF 753 GTCBLL	107	---	---	---	---	---	---	100	96	98	2
Caverndale Farms	CF 889 VIP 3111	117	---	---	---	---	---	---	96	---	96	1
Dyna-Gro	D58VC65	118	---	---	---	---	101	92	---	---	96	2
Caverndale Farms	CF 814 3000GT	112	---	---	---	---	---	---	97	95	96	2
Progeny Ag	PGY 7118VT2P	118	81	86	98	101	84	7	99	100 *	94	8
Pioneer Brand	P1847AMXT	118	88	---	88	---	102	---	88	---	91	4
Augusta	A4463	113	80	---	103	---	---	---	---	---	91	2
Pioneer Brand	P1197AMXT	111	109	62	103	98	85	94	90	76	90	8
LG Seeds	LG66C32VT2RIB	116	77	---	101	---	---	---	---	---	89	2
Caverndale Farms	CF 794 VIP 3111	109	---	---	---	---	---	---	89	---	89	1
Dyna-Gro	D53VC33	113	---	---	82	---	---	---	---	---	82	1
LG Seeds	LG62C35VT2RIB	112	78	---	83	---	---	---	---	---	80	2

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

<sup>2</sup> Hybrids tested over more site/year combinations provide a better estimate of hybrid performance than those tested in a single site/year location.

<sup>3</sup> Relative Milk per Acre (yield x quality) calculated by dividing Milk per Acre for each hybrid at each site/year by the average Milk per Acre for that site/year.

Note: Numbers over 100 indicate above-average yield\*quality, 100 indicates average yield\*quality, numbers under 100 indicate below-average yield\*quality.

\* Indicates numbers similar to the highest value in that column (i.e. within one LSD of the top performer.)

Note: Shading indicates hybrids that were in the highest yield\*quality group in at least three site years.

Table 6. Corn silage test results at the Shenandoah Valley site in 2020.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
		Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre
Pioneer Brand	P1380Q	113	37.6	35.3 *	9.9 *	24.8 *	47.7 *	60.3	0.60	62.9	2621	32534 *
Augusta	A1367	117	35.2	29.1	9.2 *	25.7 *	44.3 *	55.8 *	0.65 *	65.9 *	2912 *	29552 *
Mid-Atlantic	MA8141DGVT2P	114	38.1	31.4 *	8.7	25.5 *	45.6 *	57.6 *	0.61	63.7 *	2709	29520 *
NK Brand	NK1677-3110	116	34.4	27.2	8.4	26.6	43.8 *	56.3 *	0.67 *	67.7 *	3049 *	28944 *
Seed Consultants	SCS 1158AM™	115	39.1 *	30.1 *	9.2 *	26.3 *	46.4 *	59.6	0.60	63.2	2656	27883 *
Pioneer Brand	P1415Q	114	36.9	25.3	8.7	25.7 *	44.2 *	59.7	0.65 *	67.2 *	2965 *	26267
NK Brand	NK1748-3110	117	36.7	25.0	8.4	26.0 *	44.2 *	57.0 *	0.65 *	66.1 *	2914 *	25828
Pioneer Brand	P1197AMXT	111	40.3 *	32.8 *	8.8	26.4	49.6	56.1 *	0.56	58.7	2330	25434
Mid-Atlantic	MA5165GT3	116	36.7	24.6	8.5	26.5	44.6 *	58.7	0.64 *	66.2 *	2904 *	24785
Seed Consultants	SCS 1168AM™	116	38.1	25.8	9.4 *	25.4 *	46.4 *	61.5	0.61	64.5 *	2738 *	24704
Seed Consultants	SCS 1111Q™	111	39.2 *	27.5	9.4 *	25.4 *	46.0 *	56.3 *	0.59	61.7	2561	24646
Seed Consultants	SCS 1141AM™	114	38.4 *	27.3	8.9	25.8 *	46.1 *	59.4	0.60	63.3	2662	24358
Progeny Ag Products	PGY 9117VT2P	117	37.5	22.9	8.6	25.5 *	43.7 *	59.6	0.65 *	67.0 *	2958 *	23662
Mid-Atlantic	MA8158SS	115	38.2 *	24.2	8.7	26.3	46.8 *	58.5	0.62 *	64.4 *	2767 *	23207
Mid-Atlantic	MA5166GT3VIP	116	36.8	23.7	9.1	26.0 *	45.0 *	55.4 *	0.63 *	64.4 *	2790 *	23137
Mid-Atlantic	MA5161VIP3220	116	36.1	23.1	9.1 *	25.8 *	44.9 *	57.6 *	0.64 *	65.7 *	2876 *	23135
Seed Consultants	SCS 1188AM™	118	36.6	22.8	9.3 *	25.9 *	46.4 *	60.1	0.62 *	65.1 *	2795 *	22261
Seed Consultants	SCS 1170AM™	117	38.0	22.6	8.8	25.5 *	44.5 *	57.7	0.62 *	64.2 *	2751 *	22168
Augusta	A5262	112	37.2	20.9	8.1	25.9 *	43.7 *	58.6	0.66 *	67.3 *	2994 *	21936
Pioneer Brand	P1847AMXT	118	37.0	21.2	9.6 *	24.9 *	45.6 *	58.4	0.62 *	64.6 *	2776 *	20595
Seed Consultants	SC 1121AM™	112	38.7 *	22.3	9.4 *	25.2 *	47.2 *	59.7	0.59	62.6	2602	19702
Augusta	A5663-3000GT	113	39.6 *	21.2	8.9	25.9 *	47.3 *	56.5 *	0.59	61.3	2531	19117
Progeny Ag Products	PGY 7118VT2P	118	36.1	18.6	9.0	25.9 *	46.4 *	60.5	0.64 *	66.4 *	2899 *	18922
Augusta	A4463	113	40.6 *	19.8	8.8	24.9 *	44.5 *	60.4	0.61	63.6 *	2674	18620
LG Seeds	LG62C35VT2RIB	112	38.7 *	19.3	8.6	26.1 *	46.4 *	58.6	0.62 *	64.4 *	2761 *	18277
LG Seeds	LG66C32VT2RIB	116	37.4	19.2	8.6	27.1	48.3	58.3	0.61	63.7 *	2708	18094

Site Average	37.7	24.7	8.9	25.8	45.8	58.4	0.62	64.5	2765	23742
LSD (0.10)	2.5	5.9	0.8	1.5	4.2	3.8	0.05	4.1	324	6000
C.V.	4.9	17.9	6.2	4.4	6.8	4.8	5.98	4.7	9	19

<sup>1</sup>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 7. Two-year corn silage test results (2019 and 2020) at the Shenandoah Valley site.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM		Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
		Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre	
Augusta Seed Consultants	A1367	117	40.46	28.07 *	8.30 *	28.66 *	49.25 *	62.07	0.59 *	62.54 *	2599 *	25555 *	
Mid-Atlantic	SCS 1158AM™ MA8141DGV2P	115	42.46 *	27.86 *	8.29 *	29.04 *	50.76 *	62.49 *	0.58 *	61.26	2491 *	24358 *	
Mid-Atlantic	MA5166GT3VIP	114	40.89	27.10 *	7.91	28.62 *	49.68 *	61.91	0.59 *	61.85 *	2549 *	24242 *	
Mid-Atlantic	MA5166GT3VIP	116	39.95	25.26 *	8.16 *	28.33 *	49.15 *	60.29	0.60 *	62.37 *	2604 *	22929 *	
Augusta Seed Consultants	A5262	112	41.30	21.89	7.54	30.05 *	49.86 *	62.83 *	0.60 *	63.60 *	2670 *	20426	
Augusta Seed Consultants	SCS 1168AM™	116	44.54 *	22.55	8.45 *	28.44 *	49.87 *	64.37 *	0.58 *	61.81 *	2517 *	20077	
Augusta Seed Consultants	A5663-3000GT	113	43.43 *	23.66	8.10 *	29.04 *	51.84 *	60.65	0.57	59.98	2408	20003	
Progeny Ag Products	SCS 1188AM™	118	40.19	21.57	8.23 *	31.73	53.69	64.01 *	0.58 *	62.12 *	2539 *	19240	
Progeny Ag Products	PGY 7118VT2P	118	39.11	18.45	8.11 *	29.70 *	51.65 *	62.20	0.60 *	62.93 *	2630 *	17022	
Pioneer Brand	P1197AMXT	111	40.64	20.73	8.13 *	31.72	54.54	63.39 *	0.56	60.18	2395	16667	
Site Average			41.30	23.71	8.12	29.53	51.03	62.42	0.59	61.86	2540	21052	
LSD (0.10)			2.21	4.02	0.52	2.66	3.77	2.02	0.03	2.28	183	3740	
C.V.			5.66	17.91	6.82	9.57	7.85	3.43	5.19	3.91	8	19	

<sup>1</sup>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. Corn silage test results at the Northern Piedmont site in 2020.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
		Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre
Pioneer Brand Seed Consultants	P1380Q	113	33.48	21.70 *	6.55	29.32 *	47.62 *	63.84 *	0.68	69.36	3133	23814 *
Seed Consultants	SCS 1158AM™	115	33.88	20.48 *	6.17	30.59	50.17	65.74 *	0.67	69.43	3113	22272 *
Seed Consultants	SCS 1141AM™	114	33.09	19.06 *	6.65	28.31 *	43.81 *	63.64	0.71 *	71.64 *	3322 *	22156 *
Seed Consultants	SCS 1188AM™	118	34.24	19.64 *	6.20	30.56	47.86	66.58 *	0.69 *	70.82 *	3221 *	22137 *
Dyna-Gro	D55VC80	115	34.21	19.17 *	6.29	29.47 *	47.42 *	62.83	0.68	69.17	3129	20987
Pioneer Brand	P1197AMXT	111	30.91	18.84 *	7.12 *	28.74 *	48.60	60.99	0.67	68.39	3088	20375
Augusta	A9967	117	32.70	18.24	6.41	30.05	47.79	63.84	0.68 *	70.01 *	3183 *	20306
Augusta	A4463	113	37.10 *	18.82 *	6.51	28.14 *	43.74 *	62.32	0.67	68.46	3076	20259
LG Seeds	LG66C32VT2RI B	116	33.58	18.71	6.83 *	29.12 *	48.95	62.66	0.67	68.28	3058	19980
Pioneer Brand Progeny Ag Products	P1415Q	114	33.28	18.26	6.69 *	29.45 *	48.78	63.82	0.67	69.14	3115	19940
Seed Consultants	PGY 7118VT2P	118	32.85	18.09	6.58	29.73 *	50.26	63.07	0.67	68.54	3076	19435
Seed Consultants	SCS 1170AM™	117	32.11	16.86	7.07 *	28.60 *	45.64 *	63.24	0.69 *	70.61 *	3240 *	19153
Seed Consultants	SCS 1168AM™	116	32.59	17.25	5.93	31.34	51.56	66.23 *	0.68	69.88 *	3144	18995
Seed Consultants	SC 1121AM™	112	33.24	17.22	6.62	29.65 *	48.94	65.37 *	0.68	69.86 *	3150	18978
Seed Consultants	SCS 1111Q™	111	37.14 *	19.44 *	6.44	30.84	50.95	64.81 *	0.63	66.32	2873	18795
Progeny Ag Products	PGY 9117VT2P	117	32.48	15.54	6.86 *	28.94 *	46.09 *	63.37	0.69 *	70.75 *	3250 *	17655
Pioneer Brand	P1847AMXT	118	32.71	15.90	6.43	29.56 *	49.60	63.60	0.68	69.32	3131	17402
LG Seeds	LG62C35VT2RI B	112	33.45	14.73	6.69 *	28.98 *	46.57 *	62.82	0.68 *	69.69 *	3172 *	16383
Dyna-Gro	D53VC33	113	34.54	15.10	6.48	30.02	48.24	62.31	0.67	68.52	3080	16295
Site Average			33.56	18.05	6.55	29.55	48.03	63.74	0.68	69.38	3134	19754
LSD (0.10)			2.53	2.89	0.62	1.82	4.03	2.74	0.02	2.05	157	2811
C.V.			5.95	12.64	7.42	4.84	6.60	3.39	2.81	2.33	4	11

<sup>1</sup>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. Two-year corn silage test results (2019 and 2020) at the Northern Piedmont site.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest		Yield at 35% DM		Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006							
			Days	%	ton /acre	%							%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre	
Augusta Seed Consultants	A9967	117	37.28	*	28.00	*	6.59	31.30	*	51.94	*	62.37	0.62	*	65.83	*	2817	*	26333	*
Seed Consultants	SCS 1188AM™	118	40.39	*	27.78	*	6.90	30.29	*	50.57	*	63.10	0.61	*	64.96	*	2739	*	25519	*
Seed Consultants	SCS 1158AM™	115	38.92	*	29.23	*	6.94	30.00	*	51.89	*	60.62	0.60		63.21		2634		25363	*
Pioneer Brand Seed Consultants	P1197AMXT	111	36.63		27.67	*	7.48	29.34	*	51.65	*	59.31	0.61	*	63.92		2702	*	25124	*
Seed Consultants	SCS 1168AM™	116	37.88		26.61		6.43	31.38		53.31	*	64.66	0.62	*	66.08	*	2807	*	25045	*
Dyna-Gro Progeny Ag Products	D55VC80	115	39.00	*	27.33		6.95	28.84	*	49.57	*	60.15	0.61	*	64.25	*	2724	*	24893	*
	PGY 7118VT2P	118	37.23		26.71		6.94	30.33	*	52.88		60.39	0.61	*	64.29	*	2725	*	24402	
Site Average			38.19		27.62		6.89	30.21		51.69		61.51	0.61		64.65		2735		25240	
LSD (0.10)			1.61		1.78		0.50	1.74		2.96		2.03	0.02		2.07		153		1928	
C.V.			4.88		7.49		8.36	6.69		6.65		3.82	4.35		3.71		6		9	

<sup>1</sup>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 10. Three-year corn silage test results (2018, 2019, and 2020) at the Northern Piedmont site.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
		Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre
Progeny Ag Products	PGY 7118VT2P	118	37.73	26.71 *	7.17 *	29.75 *	52.30 *	60.30	0.61 *	64.02 *	2707 *	24356 *
Seed Consultants	SCS 1158AM™	115	39.16 *	26.90 *	7.33 *	29.20 *	50.44 *	60.33	0.60 *	63.33 *	2651 *	23792 *
Seed Consultants	SCS 1168AM™	116	38.37 *	25.04	6.48	31.62	53.96	63.71 *	0.61 *	64.47 *	2696 *	23013 *
Site Average			38.42	26.22	6.99	30.19	52.23	61.45	0.61	63.94	2685	23720
LSD (0.10)			1.31	1.57	0.61	1.88	2.86	1.57	0.02	1.38	104	1580
C.V.			4.64	8.15	11.59	8.31	7.29	3.40	3.48	2.87	5	9

<sup>1</sup>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 Southern Piedmont site in 2020.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
		Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre
NK Brand	NK1748-3110	117	26.06	14.14 *	9.10	36.62 *	59.22	67.54 *	0.62 *	65.75 *	2784 *	13800 *
Pioneer Brand	P1415Q	114	26.69	12.82 *	9.63	37.28 *	59.46	68.64 *	0.61 *	65.45 *	2740 *	12302 *
Seed Consultants	SC 1121AM™	112	26.10	12.81 *	9.52	36.74 *	58.81 *	63.49	0.59 *	62.57 *	2584 *	11808 *
Seed Consultants	SCS 1158AM™	115	28.30 *	12.84 *	8.86	38.70	61.73	61.85	0.59 *	61.92	2558 *	11453
Seed Consultants	SCS 1170AM™	117	24.76	11.76	9.67 *	37.00 *	60.17	65.22 *	0.60 *	64.01 *	2677 *	11148
Dyna-Gro	D57VC17	117	29.54 *	11.76	9.99 *	34.93 *	58.22 *	59.78	0.60 *	62.34 *	2624 *	10806
Pioneer Brand	P1380Q	113	26.85	12.02	10.06 *	35.47 *	57.82 *	57.18	0.59 *	60.69	2528	10758
Pioneer Brand	P1847AMXT	118	27.79 *	11.93	9.75 *	36.81 *	60.77	61.46	0.59 *	61.82	2557 *	10678
Seed Consultants	SCS 1188AM™	118	27.21 *	11.65	10.57 *	34.84 *	55.69 *	59.09	0.60 *	62.13 *	2611 *	10664
Dyna-Gro	D58VC65	118	24.98	11.95	10.30 *	37.73	60.52	60.20	0.59 *	61.41	2541	10626
NK Brand	NK1677-3110	116	22.84	11.64	10.27 *	37.90	63.03	67.95 *	0.58	63.16 *	2560 *	10404
Seed Consultants	SCS 1168AM™	116	24.78	11.05	10.11 *	37.63	60.73	66.05 *	0.60 *	63.95 *	2658 *	10216
Progeny Ag Products	PGY 9117VT2P	117	26.53	11.16	9.81 *	36.66 *	60.17	60.20	0.59 *	61.35	2538	9967
Seed Consultants	SCS 1111Q™	111	26.58	9.88	9.96 *	36.77 *	58.74 *	62.34	0.60 *	63.40 *	2667 *	9207
Pioneer Brand	P1197AMXT	111	24.90	9.67	10.29 *	36.48 *	58.68 *	60.61	0.60 *	62.73 *	2640 *	8985
Progeny Ag Products	PGY 7118VT2P	118	23.91	10.53	10.40 *	40.78	64.17	59.76	0.56	59.30	2380	8817
Seed Consultants	SCS 1141AM™	114	25.70	9.42	10.84 *	35.66 *	60.32	53.80	0.56	57.63	2334	7670
Site Average			26.09	11.59	9.95	36.94	59.90	62.07	0.59	62.33	2587	10548
LSD (0.10)			2.33	1.92	1.20	2.59	3.35	5.11	0.03	3.77	239	2324
C.V.			6.94	12.85	9.30	5.42	4.32	6.36	4.39	4.68	7	17

<sup>1</sup>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 (2019 and 2020) at the Southern Piedmont site.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest		Yield at 35% DM		Crude Protein		ADF	NDF	NDF Digest		NE <sub>L</sub>	TDN	Milk2006	
			Days	%	ton /acre	%	%	%			%	Mcal /lb			%	lb milk/ton
Dyna-Gro Seed Consultants	D57VC17	117	45.05 *	16.02 *	8.30	35.29 *	59.36	62.50 *	0.57 *	61.99 *	2483 *	13787 *				
Seed Consultants	SCS 1188AM™	118	38.85	15.81 *	9.05 *	33.78 *	56.35	61.07	0.57 *	61.18 *	2449 *	13380 *				
Seed Consultants	SCS 1158AM™	115	38.29	15.62 *	8.13	37.60	61.65	62.80 *	0.56 *	61.22 *	2427 *	13141 *				
Seed Consultants	SCS 1168AM™	116	34.76	14.70	8.69 *	36.65	60.44	64.23 *	0.57 *	62.11 *	2482 *	12507				
Progeny Ag Products	PGY 7118VT2P	118	33.65	14.57	9.08 *	37.55	61.20	60.29	0.56 *	59.92 *	2369 *	12081				
Dyna-Gro	D58VC65	118	35.25	14.24	8.95 *	36.41	60.00	60.21	0.56 *	60.41 *	2409 *	11882				
Pioneer Brand	P1197AMXT	111	37.02	13.68	8.92 *	35.56 *	59.04	62.01 *	0.57 *	61.43 *	2451 *	11541				
Site Average			37.55	14.95	8.73	36.12	59.72	61.87	0.57	61.18	2439	12617				
LSD (0.10)			2.10	1.18	0.56	2.14	3.43	3.11	0.02	2.30	149	1161				
C.V.			6.29	8.87	7.22	6.64	6.43	5.63	4.22	4.21	7	10				

<sup>1</sup>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 13. Three-year corn silage test results (2018, 2019, and 2020) at the Southern Piedmont site.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
			Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton
Seed Consultants	SCS 1168AM™	116	35.68	16.93 *	8.04 *	35.46 *	58.68 *	63.00 *	0.58 *	62.58 *	2540 *	14941 *
Seed Consultants	SCS 1158AM™	115	38.92 *	16.73 *	7.73 *	35.02 *	56.81 *	61.53 *	0.58 *	62.24 *	2532 *	14782 *
Progeny Ag Products	PGY 7118VT2P	118	35.27	15.97 *	8.11 *	36.16 *	58.95 *	59.86	0.57 *	60.91 *	2455 *	13792
Site Average			36.62	16.55	7.96	35.54	58.15	61.46	0.58	61.91	2509	14505
LSD (0.10)			1.76	1.29	0.41	1.56	2.45	2.59	0.02	2.01	134	1113
C.V.			6.56	10.58	6.99	5.97	5.72	5.73	4.54	4.42	7	10

<sup>1</sup>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 14. Corn silage test results at the Southwest Virginia site in 2020.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
		Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre
Seed Consultants	SCS 1158AM™	115	42.13 *	44.74 *	8.02 *	26.52 *	45.83 *	62.32 *	0.59	62.99	2605	40176 *
Progeny Ag Products	PGY 9117VT2P	117	38.76	38.76 *	8.74 *	26.24 *	45.80 *	64.66 *	0.64 *	67.15 *	2914 *	39125 *
Seed Consultants	SC 1121AM™	112	37.99	38.15 *	8.44 *	26.63 *	45.96 *	63.66 *	0.64 *	67.06 *	2919 *	39043 *
Seed Consultants	SCS 1111Q™	111	34.21	33.82	8.54 *	28.19 *	48.89 *	65.10 *	0.66 *	69.32 *	3082 *	36514 *
Seed Consultants	SCS 1168AM™	116	39.47	37.03	8.48 *	26.81 *	47.32 *	63.12 *	0.61	64.91 *	2747	35422 *
Seed Consultants	SCS 1141AM™	114	37.03	33.86	8.57 *	26.59 *	45.59 *	63.81 *	0.65 *	67.55 *	2957 *	34956 *
Augusta Caverndale Farms	A9967 CF 859 VIP 3111	117 114	46.50 * 41.46 *	38.23 * 36.34	8.15 * 8.77 *	25.94 * 25.57 *	43.57 * 44.23 *	62.54 * 61.01	0.60 0.61	63.28 64.26	2630 2723	34774 * 34670 *
Caverndale Farms	CF 753 GTCBLL	107	38.39	33.38	8.09 *	27.85 *	47.39 *	63.60 *	0.64 *	66.71 *	2887 *	33337
Seed Consultants	SCS 1188AM™	118	38.65	34.61	8.04 *	26.65 *	47.32 *	60.77	0.62 *	64.83	2767	33115
Progeny Ag Products	PGY 7118VT2P	118	41.91 *	35.39	8.44 *	25.66 *	43.82 *	59.65	0.61	63.69	2690	32988
Pioneer Brand Caverndale Farms	P1380Q CF 814 3000GT	113 112	37.24 41.26 *	30.85 33.64	8.43 * 8.09 *	27.35 * 26.31 *	47.14 * 44.85 *	65.77 * 62.04 *	0.65 * 0.62	68.34 * 64.87	3001 * 2758	32432 32410
Caverndale Farms	CF 889 VIP 3111	117	37.05	31.21	7.76	28.88 *	49.62	66.02 *	0.64 *	67.70 *	2940 *	32212
Pioneer Brand Seed Consultants	P1415Q SCS 1170AM™	114 117	38.75 38.64	31.99 32.20	8.29 * 7.97 *	27.11 * 28.01 *	45.85 * 48.65 *	63.38 * 64.40 *	0.63 * 0.62 *	65.82 * 65.97 *	2822 * 2813 *	32143 31378
Augusta	A7768	118	40.53	32.30	8.05 *	26.41 *	45.46 *	60.16	0.61	64.14	2719	30456
Pioneer Brand Caverndale Farms	P1197AMXT CF 794 VIP 3111	111 109	36.93 40.82 *	31.18 29.92	7.67 8.16 *	29.67 26.34 *	51.96 44.16 *	63.64 * 64.04 *	0.62 * 0.63 *	65.47 * 66.41 *	2779 * 2866 *	30215 29777
Pioneer Brand	P1847AMXT	118	38.07	29.97	8.37 *	26.56 *	47.88 *	61.36	0.62 *	65.33 *	2806 *	29466
Augusta	A1367	117	36.12	28.26	8.31 *	28.68 *	50.04	65.60 *	0.63 *	66.80 *	2860 *	28340
Site Average			39.14	34.09	8.26	27.05	46.73	63.17	0.63	65.84	2823	33474
LSD (0.10)			5.86	6.69	0.79	3.37	5.34	4.97	0.05	4.43	315	5551
C.V.			11.78	15.35	7.54	9.76	8.95	6.17	5.74	5.26	9	13

<sup>1</sup>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 15. Two-year corn silage test results (2019 and 2020) at the Southwest Virginia site.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
		Days	%	ton /acre	%	%	%	%	Mcal /lb	%	lb milk/ton	lb milk/acre
Seed Consultants	SCS 1168AM™	116	40.96	36.83 *	7.86 *	28.70 *	50.82 *	65.16 *	0.59 *	63.61 *	2624 *	33694 *
Caverndale Farms	CF 859 VIP 3111	114	44.44 *	37.37 *	8.29 *	27.33 *	48.32 *	63.71 *	0.58 *	62.10 *	2521 *	33004 *
Seed Consultants	SCS 1158AM™	115	43.12	37.99 *	8.00 *	27.65 *	49.20 *	61.87 *	0.56	60.29	2403	32101 *
Augusta Seed	A9967	117	47.86 *	36.97 *	7.72 *	26.82 *	47.71 *	61.42 *	0.56	60.34	2414	31161 *
Seed Consultants	SCS 1188AM™	118	42.49	35.93 *	7.73 *	28.62 *	50.50 *	60.63	0.57	60.80	2454	30670 *
Caverndale Farms	CF 753 GTCBLL	107	43.12	32.70 *	7.99 *	28.23 *	49.13 *	62.82 *	0.60 *	63.22 *	2622 *	29838 *
Augusta Progeny Ag	A7768	118	40.06	31.65	8.16 *	27.10 *	48.56 *	64.54 *	0.60 *	64.18 *	2681 *	29671 *
Products	PGY 7118VT2P	118	41.43	33.13 *	7.89 *	27.94 *	48.57 *	60.06	0.59 *	62.11 *	2566 *	29667 *
Caverndale Farms	CF 814 3000GT	112	41.91	31.40	7.77 *	26.77 *	47.12 *	62.87 *	0.60 *	63.62 *	2655 *	29208 *
Pioneer Brand	P1197AMXT	111	39.41	28.78	8.14 *	29.01 *	52.02	61.94 *	0.58 *	61.79 *	2517 *	25165
Site Average			42.48	34.27	7.95	27.82	49.19	62.50	0.58	62.21	2546	30418
LSD (0.10)			3.54	6.09	0.79	2.91	3.80	3.77	0.03	3.04	212	4795
C.V.			9.02	19.27	10.74	11.36	8.37	6.54	5.66	5.28	9	17

<sup>1</sup>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 16. Three-year corn silage test results (2018, 2019, and 2020) at the Southwest Virginia site.

Brand	Hybrid	DTM <sup>1</sup>	DM at Harvest	Yield at 35% DM	Crude Protein	ADF	NDF	NDF Digest	NE <sub>L</sub>	TDN	Milk2006	
			Days	%	ton /acre						%	%
Seed Consultants	SCS 1168AM™	116	38.39	36.94 *	7.98 *	28.49 *	50.80	64.15 *	0.61 *	64.65 *	2721 *	35142 *
Seed Consultants	SCS 1158AM™	115	41.86 *	40.08 *	7.99 *	27.49 *	48.97 *	61.02	0.57	61.04	2471	34912 *
Caverndale Farms	CF 814 3000GT	112	39.97 *	32.92	7.81 *	26.95 *	47.53 *	62.15 *	0.61 *	64.53 *	2737 *	31606 *
Augusta Progeny Ag Products	A7768	118	37.61	31.79	8.24 *	27.35 *	49.11 *	63.77 *	0.62 *	65.21 *	2774 *	30849
	PGY 7118VT2P	118	39.36	32.91	7.86 *	28.15 *	49.35 *	60.15	0.60 *	62.92	2632	30295
Site Average			39.44	34.93	7.97	27.69	49.15	62.25	0.60	63.67	2667	32561
LSD (0.10)			2.38	4.01	0.54	1.55	2.25	2.42	0.02	1.91	135	3840
C.V.			8.15	15.55	9.14	7.55	6.18	5.26	4.40	4.05	7	16

<sup>1</sup>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.

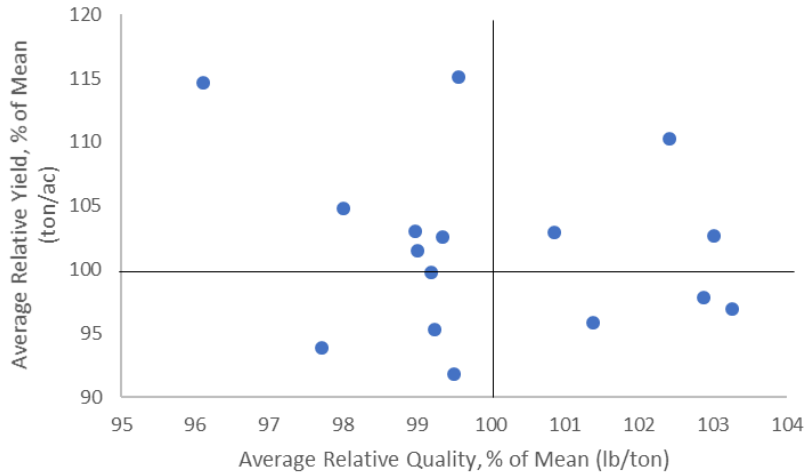


Figure 1. Average relative yield versus quality across sites, 2020

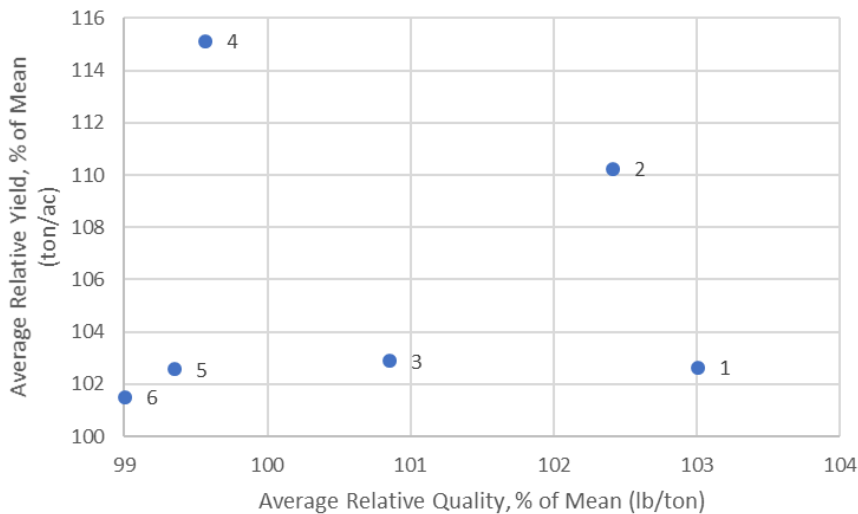


Figure 2. High-yielding and high-quality hybrids in at least 3 site/year combinations in 2020

1	Pioneer Brand	P1415Q
2	Augusta	A1367
3	Seed Consultants	SCS 1168AM™
4	Pioneer Brand	P1380Q
5	Seed Consultants	SC 1121AM™
6	Seed Consultants	SCS 1111Q™

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