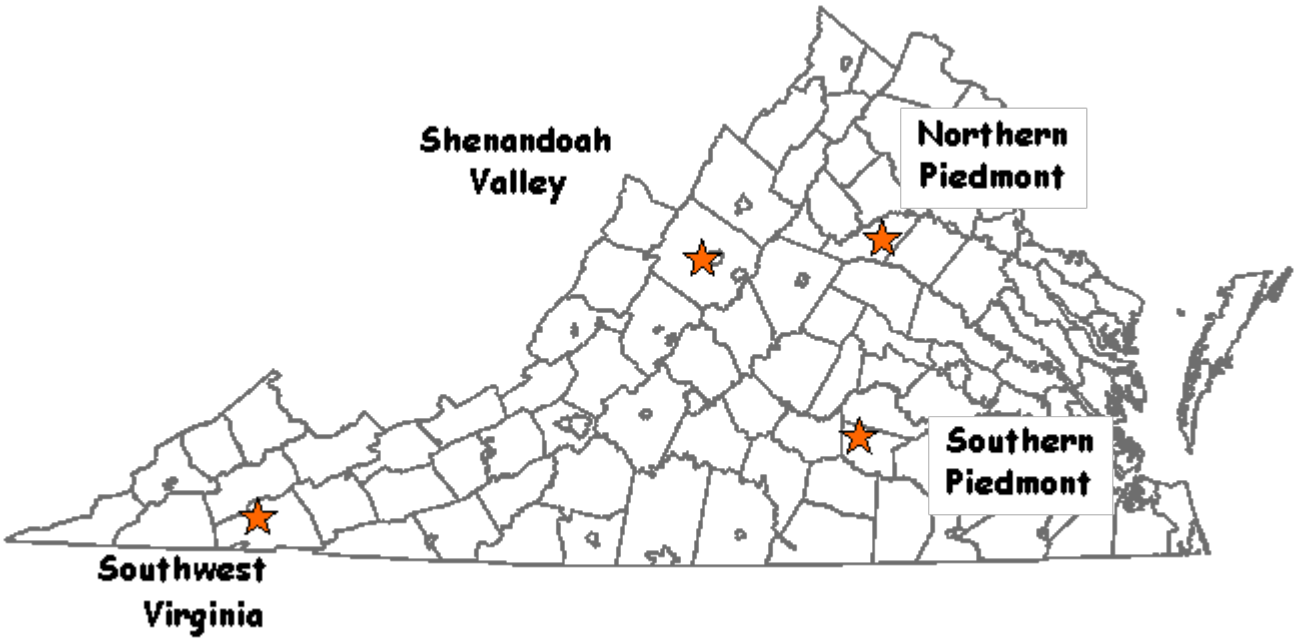
Virginia Tech Corn Silage Testing 2017



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THE 2017 VIRGINIA CORN SILAGE HYBRID TRIALS

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COMPANIES PARTICIPATING IN THE 2017 CORN SILAGE TRIALS

Company	Brand	Address
Augusta Seed	Augusta Seed	PO Box 899, Verona, VA 24482
Crop Production Services	Dyna-Gro	15277 Richmond Tappahannock Hwy, St. Stephens Church, VA 23148-0409
Doebler's PA Hybrids, Inc.	RPM®	1000 Commerce Park Dr. Suite 106, Williamsport, PA 17701
Dow AgroSciences	Mycogen Seeds	9330 Zionsville Rd., Indianapolis, IN 46267
Dupont Pioneer	Pioneer	425 Abbeydale Way, Columbia, SC 29229
Erwin-Keith, Inc.	Progeny Ag Products	1529 Hwy 193, Wynne, AR 72396
King's AgriSeeds, Inc.	KingFisher	60 North Ronks Rd. Suite K, Ronks, PA 17572
Masters Choice	Masters Choice	305 W. Vienna St., Anna, IL 62906
Mid-Atlantic Seeds	Mid-Atlantic	204 St. Charles Way #163E, York, PA 17402
Monsanto	Channel	800 N Lindbergh Blvd., St Louis, MO 63167
Seed Consultants, Inc.	Seed Consultants	648 Miami Trace Rd, Washington Court House, OH 43160
Syngenta	NK Brand	11055 Wayzata Blvd., Minnetonka, MN 55305
T.A. Seeds	T.A. Seeds	39 Seeds Lane, Jersey Shore, PA 17740

NARRATIVE

This report contains the results for performance trials from commercial corn hybrids produced for silage at four locations in Virginia in 2017 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 Choices

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 2017, 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 indicate 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.

2017 VIRGINIA CORN SILAGE PLOT INFORMATION
(Rates are on a per acre basis.)

Blackstone (Southern Piedmont Agricultural Research & Extension Center)
Planted: April 18, 2017 no-till into soybean stubble
Harvested: July 26-27, 2017
Pesticide: 2 qt Buccaneer® + 2 qt Brawl April 19, 2017
Fertilizer: 1000 lb 10-10-10 preplant incorporated April 7, 2017; 80 lb N top-dressed using UAN May 19, 2017
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Appling and Durham sandy loam
Cooperator: Ned Jones

Orange (Northern Piedmont Center)
Planted: May 3, 2017 no-till into soybean stubble
Harvested: August 22, 2017
Pesticide: 5 lb Force 3G® at planting; 2.8 qt Gramaxone® + 3 qt Acuron™ April 8, 2017
Fertilizer: 30-80-40 May 1, 2017; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 100 lb N side-dressed June 7, 2017
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Starr silt loam
Cooperators: Brad Lael

Shenandoah Valley (Timberville - Thanks to David Yutzy and Windcrest Dairy)
Planted: May 9, 2017 No-till into soybean stubble
Harvested: September 1, 2017
Pesticide: 1 qt Atrazine + 1 qt glyphosate + 4.5 oz Corvus pre-plant; 5 lb Force 3G® at planting
Fertilizer: Preplant broadcast 6000 gal dairy slurry; 17 gal 15-15-0-2S-.13B-.25Zn at planting
Plot Size: 2 rows 35' x 30" 4 replications
Soil Type: Edom silty clay loam
Cooperators: Doug Horn and David Yutzy

Washington County (Southwest Virginia Agricultural Research & Extension Center)
Planted: May 18, 2017 no-till
Harvested: September 8, 2017
Pesticide: 1 qt Atrazine + 3 qt Lumax® pre-plant; 5 lb Force 3G® at planting
Fertilizer: 200-40-80 preplant; 17 gal 15-15-0-2S-.13B-.25Zn at planting; 80 lb N + 30 lb S side-dressed
Plot Size: 2 rows 35' x 30" 4 replications
Soil Type: Wyrick-Marbie silt loam
Cooperators: Phil Blevins

Table 1. List of Hybrids in the 2017 VA Tech Corn Silage Hybrid Test

Brand	Hybrid	DTM[1]	Insecticidal Seed Treatment	Genetic Trait Package	OBS[2]
Augusta	A5262	112	Cruiser Maxx® 1250	Agrisure GT/CB/LL	2
Augusta	A4363	113	Cruiser Maxx® 1250	Genuity VT Double PRO	1
Augusta	A1564	114	Avicta® Complete 500	Agrisure 3000GT	2
Augusta	A5465	115	Cruiser Maxx® 1250	Agrisure 3000GT	1
Augusta	A5065	115	Cruiser Maxx® 250	Agrisure GT/CB/LL	4
Augusta	A1165	115	Poncho® 500/VOTiVO®	Genuity VT Double PRO	4
Augusta	A1366	116	Cruiser Maxx® 500	Agrisure Viptera 3110	1
Augusta	A6867	117	Cruiser Maxx® 1250	Agrisure Viptera 3110	2
Augusta	A7668	118	Cruiser Maxx® 250	Agrisure Viptera 3110	1
Augusta	A7768	118	Cruiser Maxx® 1250	Agrisure Viptera 3110	2
Augusta	A8868	118	Poncho® 250	Genuity VT Triple PRO	2
Channel	215-98STXRIB	115	Acceleron® 500/VOTiVO®	Genuity SmartStax RIB Complete	4
Channel	216-36STXRIB	116	Acceleron® 500/VOTiVO®	Genuity SmartStax RIB Complete	4
Channel	218-44STXRIB	118	Acceleron® 500/VOTiVO®	Genuity SmartStax RIB Complete	4
Channel	220-98VT2PRIB	120	Acceleron® 500/VOTiVO®	Genuity VT Double PRO RIB Complete	4
Doebler's	RPM® 5018AM™	110	Poncho® 1250/VOTiVO®	Optimum AcreMax	4
Doebler's	RPM® 5125AM™	111	Poncho® 1250/VOTiVO®	Optimum AcreMax	4
Doebler's	RPM® 5518AM™	115	Poncho® 1250/VOTiVO®	Optimum AcreMax	4
Doebler's	RPM® 5818AM™	118	Poncho® 1250/VOTiVO®	Optimum AcreMax	4
Dyna-Gro	D54DC94	114	Poncho® 500	Genuity VT Double PRO	2
Dyna-Gro	D55VC45	115	Poncho® 500	Genuity VT Double PRO	2
Dyna-Gro	D58QC72	118	Poncho® 500	Agrisure Viptera 3110	2
KingFisher	KF 61C40	111	Vibrance + Maxim Quattro	conventional	1
KingFisher	KF 63C10	113	Vibrance + Maxim Quattro	conventional	1
Masters Choice	MCT6151	111	Cruiser Maxx® 250	Agrisure 3000GT	4
Masters Choice	MCT6363	113	Cruiser Maxx® 250	Agrisure 3000GT	4
Masters Choice	MCT6653	116	Cruiser Maxx® 250	Agrisure 3000GT	4
Masters Choice	MCT6733	117	Cruiser Maxx® 250	Agrisure 3000GT	4
Mid-Atlantic	MA8127	112	Acceleron® 250	Genuity VT Triple PRO	4
Mid-Atlantic	MA8144	114	Acceleron® 250	Genuity VT Double PRO	4
Mid-Atlantic	MA8147	114	Acceleron® 250	Genuity SmartStax	4
Mid-Atlantic	MA8157	115	Acceleron® 250	Genuity VT Triple PRO	4
Mid-Atlantic	MA5166	115	Cruiser Maxx® 250	Agrisure 3000GT	4
Mid-Atlantic	MA8164	115	Acceleron® 250	Genuity VT Double PRO	4
Mid-Atlantic	MA8159	115	Acceleron® 250	Genuity VT Double PRO	4
Mycogen	TMF12Q57	112	Cruiser Maxx® 1250	Genuity SmartStax	2
Mycogen	TMF17L86	117	Cruiser Maxx® 1250	Genuity SmartStax	2
Mycogen	TMF17W91	117	Cruiser Maxx® 1250	Genuity SmartStax	2
NK	N76A-3000GT	114	Avicta® Complete 500	Agrisure 3000GT	3
NK	N83D-3111	118	Avicta® Complete 500	Agrisure Viptera 3111	3
Pioneer	0843AM	108	Poncho® 1250/VOTiVO®	Optimum AcreMax	3
Pioneer	1555CHR	115	Poncho® 1250/VOTiVO®	Optimum TRIsect	3
Pioneer	2088AMX	120	Poncho® 1250/VOTiVO®	Optimum AcreMax Xtra	4
Progeny Ag Products	PGY7215VT2P	115	Poncho®500/VOTIVO®	Genuity VT Double PRO	4
Progeny Ag Products	PGY6116VT2P	116	Poncho®500/VOTIVO®	Genuity VT Double PRO	4
Progeny Ag Products	PGY7118VT2P	117	Poncho®500/VOTIVO®	Genuity VT Double PRO	4
Seed Consultants	SCS 1094YHR™	109	Poncho® 1250/VOTiVO®	Optimum Intrasect	3
Seed Consultants	SCS 1098YHR™	109	Poncho® 1250/VOTiVO®	Optimum Intrasect	4
Seed Consultants	SC 11AQ17™	111	Poncho® 1250/VOTiVO®	Agrisure 3000GT	4
Seed Consultants	SCS 1125YHR™	112	Poncho® 1250/VOTiVO®	Optimum Intrasect	4

Table 1. List of Hybrids in the 2017 VA Tech Corn Silage Hybrid Test

Brand	Hybrid	DTM[1]	Insecticidal Seed Treatment	Genetic Trait Package	OBS[2]
Seed Consultants	SCS 1136YHR™	113	Poncho® 1250/VOTiVO®	Optimum Intrasect	4
Seed Consultants	SCS 1131YHR™	113	Poncho® 1250/VOTiVO®	Optimum Intrasect	4
Seed Consultants	SCS 1158YHR™	115	Poncho® 1250/VOTiVO®	Optimum Intrasect	4
Seed Consultants	SCS 11HR63™	116	Poncho® 1250/VOTiVO®	Herculex 1	4
Seed Consultants	SCS 1168YHR™	116	Poncho® 1250/VOTiVO®	Optimum Intrasect	4
Seed Consultants	SC 11AQ74™	117	Poncho® 1250/VOTiVO®	Agrisure 3000GT	4
T. A. Seeds	TA780-13VPRIB	116	Avicta® Complete 500	Genuity VT Triple PRO RIB Complete	1
T. A. Seeds	TA768-28RIB	117	Avicta® Complete 500	Genuity SmartStax RIB Complete	1

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

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

Shaded hybrids indicate hybrids entered in less than 3 locations. Hybrids are sorted by Brand then DTM.

The Handy Bt Trait Table

for U.S. Corn Production

Updated 15 March 2017

Posted at www.msuent.com
For questions, complaints, or corrections: Chris DiFonzo, Michigan State University, difonzo@msu.edu
Contributors: Pat Porter, Texas A&M University & Kelley Tilmon, The Ohio State University

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

Important clarifications or changes to the Trait Table for 2017

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

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

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

Abbreviations used in the Trait Table

Herbicide activity

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

Insect targets

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

Bt corn trait packages with their Bt proteins, spectrum of control, & % refuge

Updated 15 March 2017

TRAIT FAMILY Specific Product	Bt protein(s)	CONTROL SPECTRUM Marketed for control of: above-ground----------in soil	May be locally or regionally ineffective on:	Herbicide tolerance	Refuge %
AGRISURE					
Agrisure 3010, 3010A	Cry1Ab	ECB SCB SWCB ---		GT LL	20%
Agrisure 3000GT, 3011A	Cry1Ab mCry3A	ECB SCB SWCB RW	RW	GT LL	20%
Agrisure Viptera 3110	Cry1Ab Vip3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC ---		GT LL	20%
Agrisure Viptera 3111	Cry1Ab Vip3A mCry3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC RW	RW	GT LL	20%
Agrisure 3120 E-Z Refuge	Cry1Ab Cry1F	BCW ECB FAW SB SCB SWCB WBC ---	FAW, WBC	REFER TO BAG TAG for specific letter code: EZ0 hybrids = GT only EZ1 hybrids = GT LL	5% in bag
Agrisure 3122 E-Z Refuge	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC RW	FAW, WBC RW		5% in bag
Agrisure Viptera 3220 E-Z Refuge	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC ---			5% in bag
Agrisure Duracade 5122 E-Z Refuge	Cry1Ab Cry1F mCry3A eCry3.1Ab	BCW ECB FAW SB SWCB WBC RW	FAW, WBC RW		5% in bag
Agrisure Duracade 5222 E-Z Refuge	Cry1Ab Cry1F Vip3A mCry3A eCry3.1Ab	BCW CEW ECB FAW SB SCB SWCB TAW WBC RW	RW		5% in bag
HERCULEX					
Herculex 1 (HX1)	Cry1F	BCW ECB FAW SB SCB SWCB WBC ---	FAW, SWCB, WBC	LL	20%
Herculex RW (HXRW)	Cry34/35Ab1	--- RW	RW	RR2	20%
Herculex XTRA (HXX)	Cry1F Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC RW	FAW, SWCB, WBC RW	(most)	20%
OPTIMUM					
Intrasect (YHR)	Cry1Ab Cry1F	BCW ECB FAW SB SCB SWCB WBC ---	FAW, WBC	LL RR2	5%
AcreMax (AM)	Cry1Ab Cry1F	BCW ECB FAW SB SCB SWCB WBC ---	FAW, WBC	LL RR2	5% in bag
Leptra (VYHR)[a] AcreMax Leptra (AML)[b]	Cry1Ab Cry1F Vip3A	BCW CEW ECB FAW SB SCB SWCB TAW WBC ---		LL RR2	[a]5% ½ mile [b]5% in bag
AcreMax RW (AMRW)	Cry34/35Ab1	--- RW	RW	LL RR2	10% in bag
AcreMax1 (AM1)	Cry1F Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC RW	FAW, SWCB, WBC RW	LL RR2	10% in bag 20% ECB
TRIsect (CHR)	Cry1F mCry3A	BCW ECB FAW SB SCB SWCB WBC RW	FAW, SWCB, WBC RW	LL RR2	20%
Intrasect TRIsect (CYHR)[a] AcreMax TRIsect (AMT)[b]	Cry1Ab Cry1F mCry3A	BCW ECB FAW SB SCB SWCB WBC RW	FAW, WBC RW	LL RR2	[a]20% [b]10% in bag
Intrasect Xtra (YXR)[a] AcreMax Xtra (AMX)[b]	Cry1Ab Cry1F Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC RW	FAW, WBC RW	LL RR2	[a] 20% [b]10% in bag
Intrasect Xtreme (CYXR)[a] AcreMax XTreme (AMXT)[b]	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC RW	FAW, WBC RW	LL RR2	[a]5% [b]5% in bag
YIELDGARD or GENUITY					
YieldGard CB (YGCB)	Cry1Ab	ECB SCB SWCB ---	SCB	RR2	20%
YieldGard VT Rootworm	Cry3Bb1	--- RW	RW	RR2	20%
YieldGard VT Triple	Cry1Ab Cry3Bb1	ECB SCB SWCB RW	SCB RW	RR2	20%
Genuity VT Double PRO[a] or RIB complete[b]	Cry1A.105 Cry2Ab2	CEW ECB FAW SB SCB SWCB ---	CEW	RR2	[a]5% [b]5% in bag
Genuity VT Triple PRO[a] or RIB complete[b]	Cry1A.105 Cry2Ab2 Cry3Bb1	CEW ECB FAW SB SCB SWCB RW	CEW RW	RR2	[a]20% [b]10% in bag
Genuity SmartStax[a] or RIB Complete[b]	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW SB SCB SWCB WBC RW	CEW, WBC RW	LL RR2	[a]5% [b]5% in bag
OTHER					
Powercore[a] Powercore Refuge Adv.[b]	Cry1A.105 Cry2Ab2 Cry1F	BCW CEW ECB FAW SB SCB SWCB WBC ---	CEW, WBC	LL RR2	[a]5% [b]5% in bag
Smartstax[a] Smartstax Refuge Adv.[b]	Cry1A.105 Cry2Ab2 Cry1F Cry3Bb1 Cry34/35Ab1	BCW CEW ECB FAW SB SCB 8SWCB WBC RW	CEW, WBC RW	LL RR2	[a]5% [b]5% in bag
Qrome	Cry1Ab Cry1F mCry3A Cry34/35Ab1	BCW ECB FAW SB SCB SWCB WBC RW	FAW, WBC RW	LL RR2	5% in bag

Table 2. 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]
			2017	2016	2017	2016	2017	2016	2017	2016		
			Relative Ton per Acre[3]									
Seed Consultants	SCS 1131YHR™	113	171 *		102		96		113 *		121	4
Augusta	A1165	115	154 *		92		103 *		108 *		114	4
Pioneer	1555CHR	115	129				101		108 *		113	3
Mid-Atlantic	MA8164	115	144 *		95		104 *		105 *		112	4
Mid-Atlantic	MA8157	115	119		112 *		104 *		107 *		111	4
NK	N76A-3000GT	114	97		124 *		108 *				110	3
Seed Consultants	SC 11AQ17™	111	114	130 *	102	102	99	103 *	120 *	99 *	108	8
Augusta	A7668	118		106					110 *		108	2
Doebler's	RPM® 5818AM™	118	115		105 *		99		113 *		108	4
Doebler's	RPM® 5018AM™	110	129		96		105 *		98		107	4
Channel	218-44STXRIB	118	129	99	106 *	114 *	96	105 *	96	104 *	106	8
Mycogen	TMF17L86	117					97		114 *		106	2
Seed Consultants	SCS 1125YHR™	112	115	114 *	94	106	108 *	100	95	112 *	106	8
Seed Consultants	SCS 1168YHR™	116	121		95		99		107 *		105	4
Mid-Atlantic	MA8147	114	121		90		108 *		98		104	4
Mycogen	TMF12Q57	112					102		106 *		104	2
Seed Consultants	SCS 11HR63™	116	111	108	96	105	111 *	107 *	96	97	104	8
NK	N83D-3111	118	88		120 *		101				103	3
Mycogen	TMF17W91	117					103		103 *		103	2
Progeny Ag Products	PGY7215VT2P	115	105		103		97		105 *		103	4
Augusta	A7768	118	92	94					120 *	104 *	102	4
Augusta	A5065	115	83		126 *		105 *		94		102	4
Augusta	A8868	118	112	113 *	89	99		105 *		93	102	6
Progeny Ag Products	PGY6116VT2P	116	126		100		90		92		102	4
Doebler's	RPM® 5518AM™	115	92		106 *		95		113 *		102	4
Dyna-Gro	D55VC45	115	81						122 *		102	2
Dyna-Gro	D54DC94	114	119	94					103 *	89	101	4
Pioneer	0843AM	108		111 *	107 *	87	104 *	108 *	86	98	100	7
Doebler's	RPM® 5125AM™	111	108	93	95	90	102	101	102 *	107 *	100	8

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]
			2017	2016	2017	2016	2017	2016	2017	2016		
			Relative Ton per Acre[3]									
Progeny Ag Products	PGY7118VT2P	117	96		89		105 *		109 *		100	4
Augusta	A6867	117	102						98		100	2
Pioneer	2088AMX	120	113	89	97	95	102	91	110 *	100 *	100	8
Seed Consultants	SCS 1158YHR™	115	77		115 *		99		107 *		99	4
Mid-Atlantic	MA8144	114	100		113 *		98		85		99	4
Channel	220-98VT2PRIB	120	96		101		102		94		99	4
Mid-Atlantic	MA5166	115	102		100		95		97		98	4
Channel	215-98STXRIB	115	89		100		98		99		97	4
Seed Consultants	SC 11AQ74™	117	99		96		97		94		97	4
Seed Consultants	SCS 1136YHR™	113	109	104	90	95	104 *	98	75	96	96	8
Augusta	A5465	115		98					93		96	2
Mid-Atlantic	MA8159	115	72		102		104 *		104 *		96	4
Channel	216-36STXRIB	116	92	89	107 *	106	94	102 *	92	82	95	8
Masters Choice	MCT6733	117	67	90	91		102		99	121 *	95	6
Augusta	A1564	114	69						120 *		95	2
T. A. Seeds	TA780-13VPRIB	116	81	108							94	2
Mid-Atlantic	MA8127	112	84		107 *		96		88		94	4
Masters Choice	MCT6151	111	115		93		88		76		93	4
Masters Choice	MCT6653	116	74		91		96		109 *		93	4
Seed Consultants	SCS 1098YHR™	109	79		97		97		97		93	4
KingFisher	KF 63C10	113	91								91	1
Augusta	A1366	116							90		90	1
Dyna-Gro	D58QC72	118	92	76					85	106 *	90	4
T. A. Seeds	TA768-28RIB	117	90								90	1
Augusta	A5262	112	71	86					111 *		89	3
Augusta	A4363	113	64	112 *							88	2
Seed Consultants	SCS 1094YHR™	109			86		99		80		88	3
Masters Choice	MCT6363	113	35	91	84		92		84	97	81	6
KingFisher	KF 61C40	111	60								60	1

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]
			2017	2016	2017	2016	2017	2016	2017	2016		
			----------Relative Ton per Acre[3]----------									

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

[2] Hybrids that were 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.

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

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

Table 3. Multi-year, Multi-site Relative Milk per Ton (Quality)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2017	2016	2017	2016	2017	2016	2017	2016		
			Relative Milk per Ton[3]									
Dyna-Gro	D58QC72	118	102	147 *					103 *	112 *	116	4
Seed Consultants	SCS 1125YHR™	112	102	133 *	106 *	114 *	98	107 *	102 *	113 *	110	8
Masters Choice	MCT6363	113	109 *	109 *	105 *		97		105 *	117 *	107	6
Augusta	A5465	115		112 *					101 *		107	2
Seed Consultants	SCS 1136YHR™	113	107 *	117 *	104 *	111 *	104	102 *	106 *	104	107	8
Doebler's	RPM® 5125AM™	111	102	106	105 *	103	108 *	114 *	105 *	96	105	8
Channel	220-98VT2PRIB	120	101		101		112 *		102 *		104	4
Mycogen	TMF17L86	117					110 *		98		104	2
Channel	215-98STXRIB	115	105 *		101 *		104		102 *		103	4
Augusta	A5262	112	102	109 *					97		103	3
Seed Consultants	SCS 1094YHR™	109			103 *		100		105 *		103	3
Pioneer	0843AM	108		109 *	98	106	95	115 *	100	94	103	7
T. A. Seeds	TA780-13VPRIB	116	97	108 *							102	2
Augusta	A4363	113	102	102							102	2
Pioneer	1555CHR	115	102				101		101		101	3
Seed Consultants	SCS 1168YHR™	116	99		98		105		103 *		101	4
Augusta	A5065	115	101		105 *		96		103 *		101	4
Mycogen	TMF17W91	117					102		100		101	2
Doebler's	RPM® 5018AM™	110	99		103 *		100		102 *		101	4
Mid-Atlantic	MA8157	115	102		102 *		100		98		101	4
Augusta	A1165	115	104 *		100		97		103 *		101	4
Seed Consultants	SC 11AQ74™	117	100		102 *		101		100		101	4
Augusta	A8868	118	103	114 *	100	91		102 *		92	100	6
Seed Consultants	SCS 1131YHR™	113	101		101 *		102		98		100	4
Mid-Atlantic	MA8147	114	100		98		103		100		100	4
Doebler's	RPM® 5518AM™	115	100		99		101		102 *		100	4
Seed Consultants	SCS 1158YHR™	115	102		100		101		98		100	4
Seed Consultants	SCS 11HR63™	116	102	106	99	87	102	85	99	120 *	100	8
Doebler's	RPM® 5818AM™	118	98		99		100		103 *		100	4

Table 3. Multi-year, Multi-site Relative Milk per Ton (Quality)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2017	2016	2017	2016	2017	2016	2017	2016		
			Relative Milk per Ton[3]									
Channel	216-36STXRIB	116	96	110 *	93	96	102	102 *	97	103	100	8
NK	N83D-3111	118	99		103 *		97				100	3
Progeny Ag Products	PGY7215VT2P	115	101		99		98		101		100	4
Mid-Atlantic	MA8164	115	103		101		98		96		99	4
Masters Choice	MCT6151	111	103		101		94		100		99	4
T. A. Seeds	TA768-28RIB	117	99								99	1
Mid-Atlantic	MA8144	114	102		99		95		100		99	4
Progeny Ag Products	PGY7118VT2P	117	98		100		98		100		99	4
Mid-Atlantic	MA5166	115	98		94		103		101		99	4
Mycogen	TMF12Q57	112					98		100		99	2
Augusta	A1366	116							99		99	1
Augusta	A6867	117	99						98		98	2
Mid-Atlantic	MA8127	112	100		99		95		98		98	4
Seed Consultants	SC 11AQ17™	111	102	84	102 *	104	96	103 *	101 *	90	98	8
Dyna-Gro	D54DC94	114	97	105					97	92	98	4
Masters Choice	MCT6653	116	91		101		103		96		98	4
Mid-Atlantic	MA8159	115	100		96		96		97		97	4
Augusta	A7768	118	99	84					101	106	97	4
Progeny Ag Products	PGY6116VT2P	116	98		97		97		96		97	4
Seed Consultants	SCS 1098YHR™	109	94		100		95		100		97	4
Pioneer	2088AMX	120	103	87	101	92	106	107 *	101	81	97	8
Augusta	A1564	114	98						95		97	2
Dyna-Gro	D55VC45	115	98						95		96	2
Masters Choice	MCT6733	117	103	84	96		98		97	98	96	6
NK	N76A-3000GT	114	95		93		96				95	3
KingFisher	KF 63C10	113	93								93	1
Augusta	A7668	118		77					99		88	2
Channel	218-44STXRIB	118	98	39	97	92	98	77	96	100	87	8
KingFisher	KF 61C40	111	86								86	1

Table 3. Multi-year, Multi-site Relative Milk per Ton (Quality)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Northern Piedmont		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2017	2016	2017	2016	2017	2016	2017	2016		
			----------Relative Milk per Ton[3]----------									

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

[2] Hybrids that were 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.

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

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 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]
			2017	2016	2017	2016	2017	2016	2017	2016		
			Relative Milk per Acre[3]									
Seed Consultants	SCS 1131YHR™	113	172 *		105		98		110 *		121	4
Seed Consultants	SCS 1125YHR™	112	117	162 *	100	122 *	106 *	108 *	98	126 *	117	8
Augusta	A1165	115	160 *		91		99		110 *		115	4
Pioneer	1555CHR	115	132				102		109 *		114	3
Mid-Atlantic	MA8164	115	148 *		96		102		102 *		112	4
Mid-Atlantic	MA8157	115	122		114 *		105 *		105 *		112	4
Mycogen	TMF17L86	117					107 *		112 *		110	2
Doebler's	RPM® 5818AM™	118	113		104		99		117 *		108	4
Doebler's	RPM® 5018AM™	110	127		99		105 *		100		108	4
Seed Consultants	SC 11AQ17™	111	117	116 *	104	106 *	95	106	121 *	91	107	8
Seed Consultants	SCS 1168YHR™	116	120		93		104		110 *		107	4
Augusta	A5465	115		117 *					94		106	2
Seed Consultants	SCS 11HR63™	116	113	128 *	95	92	113 *	90	96	113 *	105	8
Mid-Atlantic	MA8147	114	120		89		111 *		99		105	4
T. A. Seeds	TA780-13VPRIB	116	78	131 *							104	2
NK	N76A-3000GT	114	92		116 *		104				104	3
Doebler's	RPM® 5125AM™	111	110	95	99	93	110 *	115 *	108 *	103 *	104	8
Pioneer	0843AM	108		123 *	105	95	99	125 *	87	92	104	7
Mycogen	TMF17W91	117					105 *		103 *		104	2
Augusta	A5065	115	85		132 *		101		96		104	4
Seed Consultants	SCS 1136YHR™	113	116	122 *	93	106 *	108 *	100	79	100	103	8
NK	N83D-3111	118	88		124 *		98				103	3
Mycogen	TMF12Q57	112					99		107 *		103	2
Dyna-Gro	D58QC72	118	94	111					87	119 *	103	4
Channel	220-98VT2PRIB	120	97		102		115 *		97		103	4
Progeny Ag Products	PGY7215VT2P	115	107		102		95		106 *		102	4
Doebler's	RPM® 5518AM™	115	91		104		96		115 *		101	4
Augusta	A8868	118	115	119 *	90	91		106		86	101	6
Channel	215-98STXRIB	115	93		102		103		101 *		100	4

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]
			2017	2016	2017	2016	2017	2016	2017	2016		
			Relative Milk per Acre[3]									
Progeny Ag Products	PGY7118VT2P	117	94		90		103		109 *		99	4
Progeny Ag Products	PGY6116VT2P	116	122		97		88		88		99	4
Seed Consultants	SCS 1158YHR™	115	77		115 *		99		104 *		99	4
Dyna-Gro	D54DC94	114	115	96					100	83	99	4
Augusta	A6867	117	101						96		98	2
Mid-Atlantic	MA8144	114	102		112 *		93		85		98	4
Augusta	A7768	118	90	72					121 *	108 *	98	4
Augusta	A7668	118		85					110 *		97	2
Mid-Atlantic	MA5166	115	100		94		98		98		97	4
Dyna-Gro	D55VC45	115	79						116 *		97	2
Seed Consultants	SC 11AQ74™	117	98		98		98		94		97	4
Pioneer	2088AMX	120	116	75	97	89	108 *	98	111 *	81	97	8
Channel	216-36STXRIB	116	88	103	99	103 *	96	104	89	84	96	8
Channel	218-44STXRIB	118	127	38	103	105 *	94	80	92	104 *	93	8
Masters Choice	MCT6151	111	119		94		83		76		93	4
Mid-Atlantic	MA8159	115	72		98		100		102 *		93	4
Masters Choice	MCT6733	117	69	80	87		100		97	119 *	92	6
Mid-Atlantic	MA8127	112	84		107		91		87		92	4
Augusta	A4363	113	65	119 *							92	2
Augusta	A5262	112	72	95					108 *		92	3
Augusta	A1564	114	69						114 *		91	2
Masters Choice	MCT6653	116	69		92		99		105 *		91	4
Seed Consultants	SCS 1094YHR™	109			88		99		84		90	3
Seed Consultants	SCS 1098YHR™	109	75		97		92		97		90	4
T. A. Seeds	TA768-28RIB	117	89								89	1
Augusta	A1366	116							88		88	1
Masters Choice	MCT6363	113	39	106	89		89		88	114 *	88	6
KingFisher	KF 63C10	113	84								84	1
KingFisher	KF 61C40	111	52								52	1

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]
			2017	2016	2017	2016	2017	2016	2017	2016		
			----------Relative Milk per Acre[3]----------									

[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 in a single site/year location.

[3] 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.

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.)

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

Table 5. 2017 Corn Silage Test Results at the Shenandoah Valley Site

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	
Seed Consultants	SCS 1131YHR™	113	35.58	*	24.29	*	8.50	*	8.74		26.23	*	44.97	*	60.39		0.65		66.47		2934		24897	*
Augusta	A1165	115	33.56		21.85	*	7.65	*	8.22		28.15	*	47.99	*	61.69		0.66	*	67.77		3028	*	23149	*
Mid-Atlantic	MA8164	115	32.50		20.37	*	7.13	*	8.47		27.86	*	47.36	*	60.95		0.66		67.41		3007		21490	*
Pioneer	1555CHR	115	33.01		18.27		6.40		8.65		28.49	*	49.48	*	64.35	*	0.65		67.55		2980		19142	
Doebler's	RPM® 5018AM™	110	32.59		18.21		6.38		8.31		29.79		51.85		63.91	*	0.64		66.46		2897		18448	
Channel	218-44STXRIB	118	35.99	*	18.31		6.41		8.41		27.45	*	48.65	*	63.80	*	0.64		66.14		2871		18425	
Progeny Ag Products	PGY6116VT2P	116	31.75		17.80		6.23		8.61		29.49		52.24		61.86		0.63		65.63		2855		17705	
Mid-Atlantic	MA8157	115	33.33		16.86		5.90		8.30		27.82	*	49.79		63.76	*	0.65		67.53		2986		17611	
Seed Consultants	SCS 1168YHR™	116	30.10		17.09		5.98		8.46		30.28		53.48		64.52	*	0.64		66.65		2904		17398	
Mid-Atlantic	MA8147	114	35.31	*	17.14		6.00		8.51		26.73	*	46.54	*	60.18		0.65		66.31		2925		17362	
Masters Choice	MCT6151	111	34.04	*	16.23		5.68		8.58		28.34	*	46.05	*	60.16		0.66	*	67.44		3018		17253	
Seed Consultants	SCS 1125YHR™	112	31.90		16.29		5.70		9.04	*	28.74	*	50.14		64.13	*	0.65		67.45		2972		16989	
Seed Consultants	SC 11AQ17™	111	32.76		16.12		5.64		8.10		28.69	*	50.44		63.17		0.65		67.39		2981		16905	
Pioneer	2088AMX	120	32.21		16.04		5.62		8.53		28.47	*	51.77		64.44	*	0.65		67.75		2995		16834	
Seed Consultants	SCS 1136YHR™	113	31.24		15.46		5.41		9.40	*	25.90	*	47.35	*	65.10	*	0.67	*	69.27	*	3112	*	16830	
Augusta	A8868	118	33.17		15.88		5.56		8.48		27.65	*	48.68	*	62.41		0.66		67.68		3013		16673	
Dyna-Gro	D54DC94	114	31.19		16.89		5.91		8.65		29.94		52.78		61.90		0.63		65.28		2826		16670	
Doebler's	RPM® 5818AM™	118	33.36		16.33		5.71		9.15	*	28.83	*	50.77		62.29		0.63		65.75		2861		16393	
Seed Consultants	SCS 11HR63™	116	30.31		15.73		5.50		8.89		28.40	*	51.24		63.92	*	0.65		67.37		2972		16359	
Doebler's	RPM® 5125AM™	111	32.82		15.35		5.37		8.33		28.55	*	50.13		63.04		0.65		67.23		2970		15879	
Progeny Ag Products	PGY7215VT2P	115	34.09	*	14.93		5.22		8.52		27.98	*	48.45	*	61.71		0.65		66.86		2952		15463	
Mid-Atlantic	MA8144	114	32.56		14.20		4.97		8.55		27.65	*	49.58	*	62.46		0.65		67.41		2990		14782	
Augusta	A6867	117	31.18		14.41		5.04		9.03	*	29.19		51.29		61.68		0.64		65.89		2879		14631	
Mid-Atlantic	MA5166	115	29.14		14.40		5.04		8.93	*	31.92		55.02		64.76	*	0.63		66.02		2851		14425	
Seed Consultants	SC 11AQ74™	117	31.35		14.00		4.90		8.92		28.31	*	50.67		63.30		0.64		66.65		2919		14191	
Channel	220-98VT2PRIB	120	31.20		13.59		4.76		8.59		28.30	*	51.13		63.22		0.65		67.08		2955		14106	
Dyna-Gro	D58QC72	118	28.49		13.08		4.58		8.94	*	28.99		50.51		63.40		0.65		67.26		2970		13681	
Progeny Ag Products	PGY7118VT2P	117	32.66		13.54		4.74		8.56		28.99		51.28		61.96		0.64		65.81		2870		13624	
Channel	215-98STXRIB	115	32.61		12.67		4.44		8.33		28.59	*	48.13	*	62.23		0.67	*	68.17	*	3056	*	13538	
NK	N76A-3000GT	114	32.44		13.75		4.81		8.13		31.29		54.48		62.28		0.62		64.66		2772		13398	
Doebler's	RPM® 5518AM™	115	32.28		13.09		4.58		8.79		29.64		52.28		64.10	*	0.64		66.60		2904		13197	
Augusta	A7768	118	28.42		13.00		4.55		8.65		30.84		54.59		65.03	*	0.64		66.45		2882		12980	
T. A. Seeds	TA768-28RIB	117	34.71	*	12.72		4.45		8.53		27.13	*	49.34	*	62.37		0.64		66.30		2902		12928	
Channel	216-36STXRIB	116	36.14	*	12.99		4.55		8.48		28.43	*	49.33	*	61.48		0.63		64.94		2802		12768	
NK	N83D-3111	118	28.55		12.51		4.38		8.79		30.40		53.89		65.44	*	0.64		66.74		2899		12680	
Augusta	A5065	115	31.39		11.81		4.13		9.02	*	29.30		51.99		64.18	*	0.65		67.02		2941		12310	
KingFisher	KF 63C10	113	31.42		12.87		4.51		8.46		35.31		60.41		65.77	*	0.61		64.51		2704		12228	
Mid-Atlantic	MA8127	112	29.40		11.90		4.16		8.63		30.92		53.35		63.75	*	0.64		66.89		2931		12105	
Dyna-Gro	D55VC45	115	33.81	*	11.48		4.02		8.73		28.71	*	51.02		63.90	*	0.63		66.02		2862		11458	
T. A. Seeds	TA780-13VPRIB	116	31.94		11.42		4.00		8.58		31.60		54.45		64.62	*	0.63		65.74		2827		11315	
Seed Consultants	SCS 1158YHR™	115	32.75		10.84		3.79		8.38		29.66		50.93		66.03	*	0.65		67.77		2976		11214	
Seed Consultants	SCS 1098YHR™	109	31.02		11.25		3.94		8.93	*	33.39		57.71		64.75	*	0.62		64.80		2748		10828	
Augusta	A5262	112	32.60		9.99		3.50		8.28		28.94		48.87	*	60.73		0.65		66.99		2974		10435	
Mid-Atlantic	MA8159	115	32.28		10.14		3.55		8.79		28.40	*	49.64		61.09		0.65		66.40		2925		10380	
Masters Choice	MCT6653	116	31.46		10.53		3.68		8.54		33.93		58.14		62.63		0.60		63.22		2652		10029	

Table 5. 2017 Corn Silage Test Results at the Shenandoah Valley Site

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
Masters Choice	MCT6733	117	30.90	9.54	3.34	8.87		28.36	*	50.88		63.76	*	0.65		67.64		2995		9964
Augusta	A1564	114	31.11	9.83	3.44	8.65		30.51		52.03		61.77		0.64		65.76		2868		9926
Augusta	A4363	113	30.79	9.13	3.20	8.95	*	28.86	*	50.53		61.73		0.65		67.00		2967		9448
KingFisher	KF 61C40	111	29.56	8.49	2.97	9.25	*	39.23		64.47		65.97	*	0.58		62.38		2523		7494
Masters Choice	MCT6363	113	31.19	5.00	1.75	8.78		27.10	*	45.57	*	63.25		0.69	*	70.05	*	3196	*	5584
	Site Average		32.08	14.15	4.95	8.65		29.35		51.23		63.11		0.64		66.59		2916		14470
	LSD (0.10)		2.41	4.95	1.73	0.47		3.00		4.64		2.33		0.03		2.25		174		5129
	C.V.		5.63	26.19	26.19	4.09		7.70		6.80		2.78		3.11		2.53		4		27

[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.

Hybrids are listed in descending order of lb milk/acre.

Table 6. Two-Year Corn Silage Test Results (2016 & 2017) at the Shenandoah Valley Site

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	
Seed Consultants	SCS 1125YHR™	112	39.85	*	26.29	*	9.20	*	8.62	*	27.93	*	48.47	*	63.03	*	0.60	*	62.42	*	2589	*	23325	*
Seed Consultants	SCS 11HR63™	116	36.08		26.46	*	9.26	*	8.46		28.29	*	50.46		60.01		0.56		56.77		2274		20373	*
Seed Consultants	SCS 1136YHR™	113	36.26		25.60	*	8.96	*	8.85	*	26.87	*	47.79	*	63.78	*	0.59	*	59.45	*	2440	*	20009	*
Augusta	A8868	118	36.88		25.89	*	9.06	*	8.10		27.79	*	49.46	*	61.91	*	0.59	*	59.56	*	2449	*	19229	*
Seed Consultants	SC 11AQ17™	111	37.30		26.94	*	9.43	*	7.83		28.67		50.52		62.31	*	0.57		57.36		2299		18782	*
T. A. Seeds	TA780-13VPRIB	116	37.17		22.98	*	8.04	*	8.42		28.99		50.68		62.66	*	0.56		57.94	*	2306		17633	
Dyna-Gro	D54DC94	114	37.55		23.46	*	8.21	*	8.39		29.00		51.32		60.60		0.56		57.38		2278		17109	
Dyna-Gro	D58QC72	118	32.90		18.68		6.54		8.45		28.88		50.76		62.10	*	0.62	*	63.73	*	2704	*	16978	
Doebler's	RPM® 5125AM™	111	37.29		22.42		7.85		8.34		27.80	*	50.11		62.03	*	0.57		58.71	*	2365	*	16676	
Augusta	A4363	113	37.63		24.30	*	8.51	*	8.79	*	27.61	*	50.05		58.78		0.56		56.58		2233		16477	
Channel	216-36STXRIB	116	38.99		20.68		7.24		8.16		28.21	*	49.02	*	60.64		0.57		57.65		2308		15813	
Pioneer	2088AMX	120	37.64		24.28	*	8.50	*	8.33		27.68	*	49.74		63.43	*	0.53		51.74		1956		14760	
Augusta	A5262	112	37.26		18.69		6.54		7.97		28.74		48.60	*	59.78		0.58	*	58.45	*	2386	*	13936	
Masters Choice	MCT6363	113	36.97		18.77		6.57		8.39		27.32	*	46.98	*	61.70		0.58	*	58.62	*	2399	*	13531	
Augusta	A7768	118	34.71		22.65		7.93		8.29		29.48		51.77		63.39	*	0.54		52.87		2027		13141	
Masters Choice	MCT6733	117	34.83		20.49		7.17		8.27		28.84		51.32		62.88	*	0.54		53.26		2077		12687	
Channel	218-44STXRIB	118	41.89	*	26.30	*	9.21	*	8.00		27.67	*	49.29	*	61.43		0.48		45.25		1534		11605	
	Site Average		37.13		23.23		8.13		8.33		28.22		49.78		61.79		0.56		56.93		2272		16592	
	LSD (0.10)		2.20		4.11		1.44		0.34		1.68		2.74		1.88		0.04		5.81		360		5248	
	C.V.		6.63		19.89		19.89		4.58		6.67		6.15		3.40		8.55		11.38		18		35	

[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.

Hybrids are listed in descending order of lb milk/acre.

Table 7. Three-Year Corn Silage Test Results (2015, 2016 & 2017) at the Shenandoah Valley Site

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	
Seed Consultants	SCS 11HR63™	116	38.63	*	26.32	*	9.21	*	8.21	*	27.95	*	49.11	*	60.60	*	0.58	*	59.18	*	2457	*	21824	*
Augusta	A8868	118	40.78	*	26.37	*	9.23	*	7.80		28.25	*	49.70	*	61.90	*	0.58	*	59.96	*	2441	*	20405	*
Augusta	A4363	113	38.93	*	25.72	*	9.00	*	8.29	*	27.49	*	48.17	*	58.99		0.56	*	57.20	*	2285	*	19271	*
T. A. Seeds	TA780-13VPRIB	116	37.19		23.18	*	8.11	*	8.35	*	28.74	*	50.03	*	61.92	*	0.58	*	59.53	*	2414	*	18894	*
Dyna-Gro	D54DC94	114	41.64	*	25.10	*	8.78	*	7.82		28.91	*	50.11	*	60.72	*	0.55	*	56.43	*	2220	*	18414	*
Dyna-Gro	D58QC72	118	39.10	*	22.01		7.70		7.81		28.93	*	49.19	*	61.21	*	0.58	*	60.04	*	2459	*	18358	*
Augusta	A5262	112	39.73	*	22.05		7.72		7.75		28.66	*	47.96	*	60.06		0.58	*	60.09	*	2464	*	18023	*
Pioneer	2088AMX	120	39.47	*	24.51	*	8.58	*	7.98		27.62	*	48.03	*	62.26	*	0.55	*	55.20	*	2159	*	17408	
Augusta	A7768	118	38.65	*	24.54	*	8.59	*	7.88		29.19		50.51	*	62.17	*	0.55	*	54.91		2147		16670	
	Site Average		39.35		24.42		8.55		7.99		28.42		49.20		61.09		0.57		58.06		2338		18807	
	LSD (0.10)		3.88		3.20		1.12		0.36		1.60		2.70		1.74		0.04		4.89		308		4118	
	C.V.		13.67		18.17		18.17		6.26		7.78		7.62		3.96		9.63		11.69		18		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.

Hybrids are listed in descending order of lb milk/acre.

Table 8. 2017 Corn Silage Test Results at the Northern Piedmont Site

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	A5065	115	32.88		22.39	*	7.84	*	7.25	*	30.12	*	52.11	*	64.74	*	0.65	*	67.40	*	2958	*	23198	*
NK	N83D-3111	118	34.11		21.37	*	7.48	*	6.33	*	31.65	*	53.59		64.01		0.64	*	66.58	*	2901	*	21770	*
NK	N76A-3000GT	114	36.40	*	22.05	*	7.72	*	5.73		33.55		55.80		60.71		0.60		62.71		2632		20350	*
Seed Consultants	SCS 1158YHR™	115	35.81	*	20.38	*	7.13	*	6.60	*	30.85	*	52.90	*	62.55		0.63		65.28		2815		20134	*
Mid-Atlantic	MA8157	115	33.12		19.80	*	6.93	*	6.46	*	31.66	*	54.58		63.24		0.64	*	66.40	*	2896	*	20074	*
Mid-Atlantic	MA8144	114	36.60	*	20.04	*	7.01	*	6.39	*	30.23	*	52.10	*	61.85		0.62		64.93		2794		19666	*
Mid-Atlantic	MA8127	112	34.60		19.06	*	6.67	*	7.02	*	29.72	*	52.77	*	60.24		0.63		64.87		2810		18776	
Pioneer	0843AM	108	36.94	*	18.99	*	6.65	*	6.61	*	30.33	*	51.25	*	62.67		0.62		64.70		2765		18388	
Seed Consultants	SCS 1131YHR™	113	34.70		18.16		6.36		6.68	*	31.77		53.08		62.69		0.64	*	65.95		2866	*	18364	
Doebler's	RPM® 5518AM™	115	35.78	*	18.71	*	6.55	*	6.11		32.40		54.28		62.84		0.62		64.99		2786		18316	
Doebler's	RPM® 5818AM™	118	35.55	*	18.62	*	6.52	*	6.34	*	32.30		53.94		63.53		0.62		65.16		2792		18246	
Seed Consultants	SC 11AQ17™	111	35.16		18.01		6.30		6.21		30.91	*	53.24		63.60		0.64	*	66.44	*	2895	*	18189	
Channel	218-44STXRIB	118	36.78	*	18.71	*	6.55	*	6.42	*	30.73	*	52.36	*	61.46		0.62		64.35		2753		18041	
Channel	220-98VT2PRIB	120	34.46		18.00		6.30		6.42	*	31.95		54.64		63.05		0.63		65.71		2843		17979	
Channel	215-98STXRIB	115	35.62	*	17.77		6.22		6.87	*	29.79	*	52.07	*	62.94		0.63	*	66.00		2868	*	17868	
Progeny Ag Products	PGY7215VT2P	115	35.96	*	18.25		6.39		7.10	*	28.87	*	51.14	*	60.40		0.63		64.77		2799		17826	
Seed Consultants	SCS 1125YHR™	112	33.32		16.71		5.85		6.71	*	30.49	*	52.57	*	64.95	*	0.65	*	67.93	*	2998	*	17590	
Channel	216-36STXRIB	116	37.06	*	18.92	*	6.62	*	5.79		33.18		56.08		63.44		0.60		63.13		2629		17447	
Doebler's	RPM® 5018AM™	110	34.16		17.09		5.98		6.77	*	30.50	*	51.88	*	63.47		0.64	*	66.68	*	2916	*	17440	
Doebler's	RPM® 5125AM™	111	31.75		16.77		5.87		7.18	*	30.90	*	54.90		66.05	*	0.65	*	67.63	*	2958	*	17349	
Mid-Atlantic	MA8159	115	36.15	*	18.13		6.34		6.38	*	31.35	*	54.05		61.27		0.61		63.86		2715		17255	
Seed Consultants	SC 11AQ74™	117	34.97		17.07		5.97		6.98	*	30.35	*	53.24		63.73		0.64	*	66.24	*	2877	*	17184	
Pioneer	2088AMX	120	33.65		17.15		6.00		6.30	*	33.10		55.38		64.50	*	0.63		65.94		2842		17100	
Progeny Ag Products	PGY6116VT2P	116	35.06		17.69		6.19		6.75	*	30.90	*	53.56		60.25		0.62		64.13		2750		17059	
Seed Consultants	SCS 1098YHR™	109	35.64	*	17.14		6.00		5.97		32.71		53.57		62.93		0.63		65.45		2823		16971	
Mid-Atlantic	MA8164	115	35.86	*	16.91		5.92		7.39	*	28.95	*	50.87	*	61.41		0.63	*	65.51		2846		16833	
Seed Consultants	SCS 11HR63™	116	35.45	*	17.11		5.99		6.18		32.66		55.02		62.54		0.62		64.95		2788		16719	
Mid-Atlantic	MA5166	115	35.18		17.74		6.21		5.56		34.12		56.92		60.60		0.60		63.01		2659		16508	
Masters Choice	MCT6151	111	34.47		16.47		5.76		6.66	*	31.49	*	53.29		61.77		0.63		65.51		2843		16435	
Seed Consultants	SCS 1136YHR™	113	32.79		15.97		5.59		6.77	*	31.92		54.23		65.29	*	0.64	*	67.23	*	2936	*	16302	
Seed Consultants	SCS 1168YHR™	116	33.61		16.80		5.88		5.78		34.34		57.08		63.43		0.62		64.98		2777		16257	
Masters Choice	MCT6653	116	34.41		16.19		5.67		6.56	*	31.63	*	53.89		63.03		0.63		65.72		2845		16102	
Augusta	A1165	115	35.21		16.25		5.69		6.65	*	30.86	*	52.35	*	61.22		0.63		65.25		2829		16038	
Augusta	A8868	118	33.65		15.87		5.56		6.43	*	33.11		55.76		63.20		0.63		65.64		2835		15767	
Progeny Ag Products	PGY7118VT2P	117	34.35		15.85		5.55		6.01		32.45		55.20		62.60		0.63		65.39		2822		15747	
Masters Choice	MCT6363	113	32.91		14.98		5.24		6.93	*	29.98	*	52.38	*	63.11		0.65	*	67.28	*	2970	*	15636	
Mid-Atlantic	MA8147	114	36.58	*	16.03		5.61		6.89	*	30.67	*	52.98	*	64.07		0.62		65.15		2782		15612	
Seed Consultants	SCS 1094YHR™	109	35.46	*	15.23		5.33		7.27	*	28.83	*	49.32	*	62.00		0.64	*	66.48	*	2916	*	15479	
Masters Choice	MCT6733	117	34.79		16.13		5.65		6.06		33.64		56.96		63.16		0.61		64.00		2702		15277	
	Site Average		34.90		17.81		6.23		6.53		31.41		53.62		62.78		0.63		65.47		2826		17623	
	LSD (0.10)		1.79		3.83		1.34		1.10		2.94		3.71		1.76		0.02		1.72		135		4054	
	C.V.		4.22		17.82		17.82		13.91		7.72		5.71		2.31		2.73		2.16		4		19	

[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.

Hybrids are listed in descending order of lb milk/acre.

Table 9. Two-Year Corn Silage Test Results (2016 & 2017) at the Northern Piedmont Site

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	
Seed Consultants	SCS 1136YHR™	113	32.29		16.54		5.79		7.45	*	29.23	*	49.90	*	63.78	*	0.59	*	57.88	*	2389	*	14943	*
Seed Consultants	SC 11AQ17™	111	34.55		18.94	*	6.63	*	6.67		29.63	*	51.09	*	62.02		0.57		55.34		2236		14467	*
Seed Consultants	SCS 1125YHR™	112	32.66		18.89	*	6.61	*	7.24	*	28.93	*	49.71	*	62.65	*	0.58	*	55.20		2240		14270	*
Channel	218-44STXRIB	118	36.38	*	20.65	*	7.23	*	7.01	*	29.22	*	50.40	*	60.06		0.54		51.43		1974		13730	*
Channel	216-36STXRIB	116	35.92	*	19.98	*	6.99	*	6.83		29.91	*	52.37		61.85		0.53		51.14		1941		13345	*
Pioneer	2088AMX	120	33.25		17.93		6.28		6.77		31.35		53.55		63.35	*	0.56		53.88		2138		13173	*
Pioneer	0843AM	108	34.74		17.99		6.30		7.41	*	28.93	*	49.09	*	61.27		0.54		51.20		1975		12756	*
Seed Consultants	SCS 11HR63™	116	34.78		18.99	*	6.65	*	6.54		31.21		53.15		61.84		0.53		50.96		1962		12497	
Doebler's	RPM® 5125AM™	111	32.62		17.44		6.10		7.53	*	29.20	*	50.74	*	63.86	*	0.55		52.11		2031		12194	
Augusta	A8868	118	32.57		17.80		6.23		6.92		31.10		53.62		62.38	*	0.54		51.56		2009		11965	
	Site Average		33.98		18.52		6.48		7.04		29.87		51.36		62.31		0.55		53.07		2089		13334	
	LSD (0.10)		1.06		2.34		0.82		0.60		1.77		2.50		1.49		0.02		2.03		128		2213	
	C.V.		3.60		14.20		14.20		9.78		6.84		5.62		2.76		4.08		4.41		7		19	

[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.
Hybrids are listed in descending order of lb milk/acre.

Table 10. Three-Year Corn Silage Test Results (2015, 2016 & 2017) at the Northern Piedmont Site

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	A8868	118	35.23		20.15	*	7.05	*	7.24	*	30.00	*	51.24	*	61.69	*	0.56	*	54.79	*	2215	*	15358	*
Pioneer	2088AMX	120	38.37	*	20.16	*	7.06	*	6.83		30.61	*	51.94	*	62.83	*	0.55	*	55.00	*	2170	*	15202	*
Seed Consultants	SCS 11HR63™	116	39.07	*	22.21	*	7.77	*	6.72		30.28	*	51.48	*	60.25		0.54		51.83		2002		15020	*
	Site Average		37.56		20.84		7.29		6.93		30.30		51.55		61.59		0.55		53.87		2129		15193	
	LSD (0.10)		2.63		2.40		0.84		0.37		0.95		2.02		2.23		0.01		1.85		100		1887	
	C.V.		9.35		15.36		15.36		7.16		4.18		5.22		4.84		2.49		4.47		6		16	

[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.
Hybrids are listed in descending order of lb milk/acre.

Table 11. 2017 Corn Silage Test Results at the Southern Piedmont Site

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	
Channel	220-98VT2PRIB	120	38.10		18.33		6.42		7.85	*	32.08	*	54.83	*	61.54		0.57	*	60.35	*	2439	*	15643	*
Seed Consultants	SCS 11HR63™	116	45.50		19.92	*	6.97	*	7.44		33.60		57.23		66.37	*	0.53		58.42		2216		15464	*
Mid-Atlantic	MA8147	114	43.02		19.36	*	6.78	*	7.58	*	31.71	*	55.44	*	63.81		0.54		58.25		2241		15185	*
Doebler's	RPM® 5125AM™	111	42.37		18.31		6.41		7.51		31.02	*	53.21	*	63.38		0.56	*	59.56	*	2351	*	15055	*
Seed Consultants	SCS 1136YHR™	113	42.11		18.60	*	6.51	*	8.10	*	31.61	*	55.01	*	64.29		0.54		58.63		2262		14714	*
Pioneer	2088AMX	120	40.90		18.23		6.38		7.07		33.63		56.80		63.93		0.55		59.01		2299		14672	*
Mycogen	TMF17L86	117	35.71		17.38		6.08		6.96		35.16		59.59		65.35	*	0.56	*	60.51	*	2399	*	14601	*
Seed Consultants	SCS 1125YHR™	112	43.41		19.37	*	6.78	*	7.55		34.64		58.37		63.13		0.52		56.81		2131		14412	*
Mid-Atlantic	MA8157	115	41.82		18.68	*	6.54	*	6.66		35.14		59.67		64.75	*	0.53		57.75		2185		14322	*
Mycogen	TMF17W91	117	38.66		18.35		6.42		6.57		36.01		59.80		61.91		0.54		57.79		2230		14314	*
Doebler's	RPM® 5018AM™	110	43.48		18.84	*	6.59	*	7.75	*	33.60		56.75		64.87	*	0.53		57.58		2170		14305	*
NK	N76A-3000GT	114	45.36		19.40	*	6.79	*	6.95		35.04		59.23		64.05		0.51		56.49		2093		14226	
Seed Consultants	SCS 1168YHR™	116	41.09		17.72		6.20		7.44		33.06	*	56.94		64.82	*	0.54		59.01		2286		14198	
Progeny Ag Products	PGY7118VT2P	117	42.78		18.81	*	6.58	*	6.54		37.18		60.76		63.05		0.52		56.89		2139		14069	
Channel	215-98STXRIB	115	42.15		17.58		6.15		7.35		32.84	*	55.48	*	62.45		0.54		58.42		2271		14003	
Pioneer	1555CHR	115	43.75		18.03		6.31		6.97		32.81	*	56.90		64.85	*	0.53		58.06		2210		13942	
Mid-Atlantic	MA8164	115	42.40		18.63	*	6.52	*	6.97		34.74		59.31		62.22		0.52		56.65		2134		13918	
Augusta	A5065	115	46.56	*	18.82	*	6.59	*	8.01	*	32.98	*	57.59		65.20	*	0.51		56.70		2093		13780	
Masters Choice	MCT6733	117	45.24		18.32		6.41		7.28		34.05		58.34		63.93		0.52		56.92		2130		13655	
Mid-Atlantic	MA8159	115	47.84	*	18.66	*	6.53	*	7.13		34.51		58.81		64.21		0.51		56.42		2085		13587	
Mycogen	TMF12Q57	112	43.90		18.22		6.38		7.09		34.33		57.67		64.14		0.52		56.91		2126		13574	
Pioneer	0843AM	108	48.25	*	18.65	*	6.53	*	7.54		31.94	*	55.17	*	62.10		0.51		55.95		2077		13544	
Augusta	A1165	115	44.47		18.42	*	6.45	*	6.72		33.95		58.04		62.11		0.52		56.28		2104		13534	
Seed Consultants	SCS 1158YHR™	115	44.65		17.63		6.17		7.08		33.10	*	56.74		64.03		0.53		57.67		2189		13506	
Masters Choice	MCT6653	116	42.45		17.18		6.01		7.10		33.51		57.98		64.39	*	0.54		58.36		2239		13472	
Seed Consultants	SCS 1094YHR™	109	44.97		17.69		6.19		7.55		31.03	*	53.36	*	61.83		0.53		57.12		2173		13463	
Doebler's	RPM® 5818AM™	118	44.88		17.74		6.21		7.90	*	31.16	*	54.56	*	62.85		0.53		57.21		2168		13463	
Mid-Atlantic	MA5166	115	42.38		17.04		5.96		7.29		34.05		57.51		63.40		0.54		58.26		2244		13431	
NK	N83D-3111	118	43.74		18.05		6.32		7.30		34.30		58.98		64.09		0.52		56.80		2118		13351	
Seed Consultants	SCS 1131YHR™	113	41.63		17.18		6.01		7.64	*	32.77	*	55.61	*	63.03		0.54		57.87		2219		13328	
Seed Consultants	SC 11AQ74™	117	43.15		17.35		6.07		7.47		33.25	*	57.45		64.52	*	0.53		57.78		2190		13304	
Doebler's	RPM® 5518AM™	115	44.87		17.05		5.97		7.02		33.12	*	56.71		64.49	*	0.53		57.78		2192		13061	
Channel	216-36STXRIB	116	42.35		16.82		5.89		7.54		33.16	*	56.82		63.98		0.53		58.05		2219		13055	
Progeny Ag Products	PGY7215VT2P	115	44.19		17.33		6.07		6.94		34.70		59.29		65.84	*	0.52		57.31		2132		12953	
Seed Consultants	SC 11AQ17™	111	44.75		17.68		6.19		7.13		33.85		57.23		62.33		0.52		56.16		2090		12921	
Channel	218-44STXRIB	118	45.64	*	17.19		6.02		7.53		33.10	*	57.82		64.79	*	0.52		57.09		2132		12828	
Mid-Atlantic	MA8144	114	47.93	*	17.50		6.12		7.04		32.30	*	56.76		60.73		0.52		55.72		2078		12729	
Seed Consultants	SCS 1098YHR™	109	48.25	*	17.39		6.09		6.65		34.54		59.12		65.25	*	0.51		56.37		2065		12557	
Mid-Atlantic	MA8127	112	46.40	*	17.17		6.01		7.24		34.64		59.10		62.19		0.51		55.73		2059		12368	

Table 11. 2017 Corn Silage Test Results at the Southern Piedmont Site

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
Masters Choice	MCT6363	113	43.07		16.39	5.73	6.71	35.16	58.99	62.68	0.52	56.52	2115	12116
Progeny Ag Products	PGY6116VT2P	116	45.15		16.14	5.65	7.23	34.22	58.15	63.37	0.52	56.70	2120	11985
Masters Choice	MCT6151	111	45.93	*	15.77	5.52	6.83	34.13	58.04	62.43	0.51	55.73	2054	11344
	Site Average		43.70		17.93	6.27	7.24	33.61	57.41	63.63	0.53	57.47	2178	13665
	LSD (0.10)		2.74		1.53	0.53	0.54	2.29	2.85	2.05	0.02	1.48	113	1339
	C.V.		5.25		7.14	7.14	6.27	5.70	4.15	2.69	2.77	2.15	4	8

[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.

Hybrids are listed in descending order of lb milk/acre.

Table 12. Two-Year Corn Silage Test Results (2016 & 2017) at the Southern Piedmont Site

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	
Pioneer	2088AMX	120	34.05		16.88		5.91		6.93		33.18		55.96		65.39	*	0.49	*	48.26	*	1730	*	10591	*
Pioneer	0843AM	108	39.42	*	18.33	*	6.42	*	7.47	*	31.93	*	54.40	*	64.36		0.48	*	47.10	*	1636	*	10564	*
Doebler's	RPM® 5125AM™	111	34.58		17.49		6.12		7.36	*	31.53	*	53.70	*	64.99	*	0.49	*	47.22	*	1692	*	10559	*
Seed Consultants	SCS 11HR63™	116	36.28		18.79	*	6.58	*	7.18		34.25		57.35		66.28	*	0.46		44.56		1493		10098	*
Seed Consultants	SCS 1136YHR™	113	33.87		17.45		6.11		7.70	*	31.96	*	54.81	*	65.74	*	0.48		46.06		1596		10005	*
Seed Consultants	SCS 1125YHR™	112	32.84		17.78	*	6.22	*	7.47	*	33.49		56.03		65.56	*	0.47		43.87		1472		9415	
Channel	216-36STXRIB	116	35.20		16.82		5.89		7.40	*	33.30		56.01		64.55		0.47		45.70		1576		9280	
Seed Consultants	SC 11AQ17™	111	35.45		17.35		6.07		6.86		33.43		56.22		64.68	*	0.47		44.78		1513		9250	
Channel	218-44STXRIB	118	36.96		17.29		6.05		7.12		34.18		57.96		65.60	*	0.45		43.39		1416		8519	
	Site Average		35.41		17.58		6.15		7.28		33.03		55.82		65.24		0.47		45.66		1569		9809	
	LSD (0.10)		1.36		1.05		0.37		0.41		1.37		1.87		1.61		0.02		1.38		98		834	
	C.V.		4.38		6.84		6.84		6.49		4.74		3.84		2.82		3.67		3.46		7		10	

[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.

Hybrids are listed in descending order of lb milk/acre.

Table 13. Three-Year Corn Silage Test Results (2015, 2016 & 2017) at the Southern Piedmont Site

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	
Seed Consultants	SCS 11HR63™	116	41.83	*	24.14	*	8.45	*	7.21	*	32.29	*	54.44	*	63.99	*	0.49		49.44		1767		15887	*
Pioneer	2088AMX	120	37.65	*	20.54		7.19		7.02	*	32.29	*	54.87	*	63.56	*	0.52	*	52.04	*	1951	*	15004	*
	Site Average		39.74		22.34		7.82		7.11		32.29		54.66		63.78		0.50		50.74		1859		15446	
	LSD (0.10)		5.61		1.73		0.61		0.47		0.97		1.63		1.66		0.02		2.33		156		1957	
	C.V.		16.25		8.92		8.92		7.62		3.46		3.44		3.00		5.49		5.28		10		15	

[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.
Hybrids are listed in descending order of lb milk/acre.

Table 14. 2017 Corn Silage Test Results at the Southwest Virginia Site

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	
Seed Consultants	SC 11AQ17™	111	34.53		35.03	*	12.26	*	8.00		26.53		47.92		63.73	*	0.66	*	68.62	*	3065	*	37348	*
Augusta	A7768	118	32.93		34.78	*	12.17	*	9.12	*	26.09	*	48.64		63.71	*	0.66		68.51	*	3059		37329	*
Doebler's	RPM® 5818AM™	118	34.23		32.83	*	11.49	*	8.33		26.08	*	46.57	*	62.42		0.68	*	69.20	*	3128	*	36038	*
Dyna-Gro	D55VC45	115	37.55	*	35.46	*	12.41	*	8.96	*	26.10	*	48.76		63.99	*	0.63		66.20		2870		35587	*
Doebler's	RPM® 5518AM™	115	33.76		32.86	*	11.50	*	8.17		26.77		47.84		62.64		0.67	*	68.52	*	3075	*	35320	*
Augusta	A1564	114	36.51	*	35.01	*	12.25	*	7.96		27.26		48.23		61.33		0.64		65.89		2875		35136	*
Mycogen	TMF17L86	117	31.68		33.28	*	11.65	*	7.81		28.60		51.86		62.79		0.65		67.21		2963		34479	*
Pioneer	2088AMX	120	34.76		32.05	*	11.22	*	8.62	*	26.09	*	47.97		63.04	*	0.66	*	68.41		3058		34185	*
Seed Consultants	SCS 1131YHR™	113	36.63	*	32.91	*	11.52	*	8.93	*	25.97	*	47.24	*	64.00	*	0.65		67.37		2964		33988	*
Augusta	A1165	115	35.15		31.29	*	10.95	*	9.12	*	24.96	*	44.78	*	61.54		0.67	*	68.84	*	3108	*	33978	*
Seed Consultants	SCS 1168YHR™	116	33.49		31.17	*	10.91	*	8.59	*	26.48		49.19		65.25	*	0.67	*	69.40	*	3114	*	33956	*
Augusta	A7668	118	34.51		32.11	*	11.24	*	8.43	*	26.17		48.75		62.01		0.66		67.60		3005		33827	*
Progeny Ag Products	PGY7118VT2P	117	32.90		31.67	*	11.09	*	8.16		27.21		50.64		62.99	*	0.66		67.97		3024		33536	*
Pioneer	1555CHR	115	35.21		31.47	*	11.01	*	8.85	*	25.84	*	46.66	*	62.32		0.66		68.15		3047		33510	*
Doebler's	RPM® 5125AM™	111	32.94		29.73	*	10.41	*	8.79	*	26.18		46.96	*	64.64	*	0.68	*	70.13	*	3182	*	33183	*
Augusta	A5262	112	35.89	*	32.15	*	11.25	*	8.81	*	25.85	*	47.10	*	61.37		0.65		66.84		2951		33170	*
Mycogen	TMF12Q57	112	34.61		30.88	*	10.81	*	7.99		27.03		47.64	*	62.81	*	0.66		68.02		3030		32821	*
Progeny Ag Products	PGY7215VT2P	115	34.56		30.60	*	10.71	*	9.03	*	25.39	*	46.66	*	60.28		0.67	*	67.94		3048		32595	*
Masters Choice	MCT6653	116	35.02		31.75	*	11.11	*	8.41		26.61		49.58		62.28		0.64		66.55		2917		32426	*
Mid-Atlantic	MA8157	115	34.92		31.11	*	10.89	*	7.71		26.87		49.50		62.82	*	0.65		67.34		2975		32347	*
Seed Consultants	SCS 1158YHR™	115	35.82	*	31.02	*	10.86	*	8.27		25.88	*	47.06	*	61.29		0.65		66.90		2956		32058	*
Mycogen	TMF17W91	117	33.50		29.95	*	10.48	*	7.77		27.69		49.57		61.86		0.66		67.73		3017		31567	*
Mid-Atlantic	MA8159	115	35.10		30.33	*	10.62	*	8.27		26.87		49.24		62.93	*	0.65		67.02		2947		31250	*
Mid-Atlantic	MA8164	115	35.99	*	30.65	*	10.73	*	8.41		25.75	*	48.38		61.23		0.64		66.37		2915		31227	*
Channel	215-98STXRIB	115	33.35		28.91		10.12		8.54	*	26.15		47.84		62.07		0.67	*	68.63	*	3087	*	31204	*
Doebler's	RPM® 5018AM™	110	35.58	*	28.59		10.01		8.42		25.85	*	45.50	*	63.67	*	0.67	*	68.72	*	3079	*	30829	
Dyna-Gro	D54DC94	114	35.26		29.91	*	10.47	*	8.12		26.26		48.63		60.61		0.65		66.74		2951		30808	
Mid-Atlantic	MA8147	114	32.88		28.60		10.01		8.72	*	27.09		49.46		63.88	*	0.66		68.19		3032		30336	
Seed Consultants	SCS 1125YHR™	112	34.39		27.76		9.72		8.98	*	25.28	*	45.56	*	62.11		0.67	*	68.84	*	3102	*	30185	
Mid-Atlantic	MA5166	115	36.25	*	28.15		9.85		8.83	*	25.75	*	46.73	*	64.33	*	0.66		68.38		3044		30014	
Seed Consultants	SCS 1098YHR™	109	35.13		28.16		9.86		8.78	*	26.10	*	47.20	*	63.04	*	0.66		67.98		3022		29827	
Masters Choice	MCT6733	117	35.57	*	28.79		10.08		8.42		26.95		49.47		63.70	*	0.65		67.14		2949		29800	
Channel	220-98VT2PRIB	120	33.18		27.45		9.61		8.12		26.61		48.63		62.61		0.67	*	68.88	*	3103	*	29768	
Augusta	A5065	115	33.27		27.23		9.53		8.33		26.24		48.69		65.08	*	0.67	*	69.39	*	3115	*	29651	
Seed Consultants	SCS 11HR63™	116	34.27		28.02		9.81		8.79	*	26.53		49.13		62.57		0.66		67.66		3004		29467	
Augusta	A6867	117	34.59		28.38		9.93		8.77	*	26.45		47.96		61.30		0.65		67.18		2978		29464	
Seed Consultants	SC 11AQ74™	117	35.65	*	27.35		9.57		8.41		26.20		47.78		63.79	*	0.66		68.18		3032		28981	
Augusta	A5465	115	34.75		27.05		9.47		7.78		27.36		48.18		63.85	*	0.67	*	68.70	*	3072	*	28919	
Channel	218-44STXRIB	118	36.39	*	27.96		9.79		8.52	*	26.15		48.32		61.27		0.64		66.11		2892		28226	
Channel	216-36STXRIB	116	35.75	*	26.84		9.39		8.92	*	26.01	*	48.64		61.99		0.65		66.65		2929		27517	
Masters Choice	MCT6363	113	33.65		24.42		8.55		8.26		25.53	*	47.28	*	63.84	*	0.68	*	69.97	*	3178	*	27198	
Progeny Ag Products	PGY6116VT2P	116	35.39	*	26.66		9.33		8.31		25.82	*	47.00	*	57.86		0.65		65.96		2916		27175	
Augusta	A1366	116	35.23		26.17		9.16		8.76	*	26.23		47.39	*	62.45		0.65		67.48		2991		27150	
Dyna-Gro	D58QC72	118	33.42		24.74		8.66		8.53	*	26.04	*	47.82		63.40	*	0.67	*	69.02	*	3105	*	26840	
Pioneer	0843AM	108	35.15		25.13		8.80		8.88	*	25.45	*	45.27	*	61.49		0.66		67.92		3035		26702	

Table 14. 2017 Corn Silage Test Results at the Southwest Virginia Site

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	MA8127	112	35.52	*	25.68	8.99	8.55	*	25.57	*	46.21	*	58.34		0.65		66.55		2958		26616
Mid-Atlantic	MA8144	114	35.94	*	24.65	8.63	8.23		25.64	*	45.23	*	59.66		0.66		67.44		3016		26082
Seed Consultants	SCS 1094YHR™	109	34.06		23.19	8.12	8.93	*	25.51	*	45.59	*	63.05	*	0.68	*	69.85	*	3178	*	25813
Seed Consultants	SCS 1136YHR™	113	32.68		21.86	7.65	8.44	*	26.17		47.47	*	63.92	*	0.68	*	70.23	*	3197	*	24450
Masters Choice	MCT6151	111	33.32		22.04	7.72	8.25		27.69		48.53		60.92		0.66		67.56		3015		23279
	Site Average		34.66		29.27	10.25	8.48		26.30		47.84		62.48		0.66		67.92		3025		30943
	LSD (0.10)		2.17		6.10	2.14	0.69		1.15		2.93		2.44		0.02		1.77		136		6165
	C.V.		4.85		16.25	16.25	6.32		3.39		4.74		3.03		2.44		2.02		3		16

[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.

Hybrids are listed in descending order of lb milk/acre.

Table 15. Two-Year Corn Silage Test Results (2016 & 2017) at the Southwest Virginia Site

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	
Doebler's	RPM® 5125AM™	111	39.74		31.33	*	10.96	*	8.48	*	26.28	*	45.89	*	62.42	*	0.57	*	55.64	*	2217	*	23644	*
Seed Consultants	SC 11AQ17™	111	40.14		32.99	*	11.55	*	7.68		27.58		47.48		62.03	*	0.54		51.80		1972		23514	*
Pioneer	2088AMX	120	39.56		31.63	*	11.07	*	8.33		26.71		48.05		61.61	*	0.55		53.47		2085		23243	*
Augusta	A7768	118	39.46		33.38	*	11.68	*	8.80	*	25.84	*	46.14	*	61.50	*	0.53		50.84		1898		22596	*
Seed Consultants	SCS 1125YHR™	112	39.63		31.37	*	10.98	*	8.67	*	25.49	*	44.58	*	60.90	*	0.56		53.77		2102		21804	*
Seed Consultants	SCS 11HR63™	116	39.07		29.12		10.19		8.37		26.55		46.57		60.72	*	0.55		53.51		2085		20749	*
Masters Choice	MCT6363	113	37.49		26.97		9.44		7.95		26.10	*	46.10	*	62.06	*	0.58	*	56.63	*	2301	*	20741	*
Masters Choice	MCT6733	117	41.94		33.90	*	11.86	*	8.48	*	26.07	*	46.71		61.62	*	0.52		49.67		1809		20003	
Dyna-Gro	D58QC72	118	38.11		28.91		10.12		8.40		26.32	*	46.23	*	62.45	*	0.56		53.65		2098		19773	
Channel	216-36STXRIB	116	42.55	*	26.33		9.22		8.34		25.98	*	46.51		59.26		0.55		54.12		2102		19569	
Channel	218-44STXRIB	118	44.69	*	30.59	*	10.71	*	7.98		26.16	*	45.93	*	58.05		0.52		49.47		1797		18452	
Pioneer	0843AM	108	42.88	*	27.90		9.77		8.45	*	25.74	*	44.92	*	58.96		0.54		52.03		1976		18266	
Dyna-Gro	D54DC94	114	41.64		28.65		10.03		7.89		27.37		47.90		58.62		0.51		48.65		1776		18262	
Seed Consultants	SCS 1136YHR™	113	38.76		25.93		9.08		8.52	*	25.84	*	45.88	*	62.44	*	0.56		53.78		2102		17550	
	Site Average		40.40		29.93		10.47		8.31		26.29		46.35		60.90		0.54		52.65		2023		20583	
	LSD (0.10)		2.34		4.73		1.65		0.40		1.04		1.85		1.85		0.02		1.47		101		3182	
	C.V.		6.53		17.89		17.89		5.45		4.47		4.50		3.42		3.27		3.16		6		18	

[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.
Hybrids are listed in descending order of lb milk/acre.

Table 16. Three-Year Corn Silage Test Results (2015, 2016 & 2017) at the Southwest Virginia Site

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	A7768	118	42.64	*	32.60	*	11.41	*	8.24	*	26.57	45.99	61.13	*	0.54		52.66	*	2007	*	23396	*
Pioneer	2088AMX	120	39.92		29.60	*	10.36	*	8.07	*	27.22	48.02	60.82	*	0.56	*	55.15	*	2196	*	22834	*
Dyna-Gro	D58QC72	118	37.68		28.39		9.94		8.25	*	26.83	46.76	61.64	*	0.57	*	55.92	*	2244	*	21252	*
Seed Consultants	SCS 11HR63™	116	40.85	*	28.00		9.80		7.85	*	27.23	47.25	61.10	*	0.53		51.74		2064	*	20451	*
Dyna-Gro	D54DC94	114	44.41	*	27.26		9.54		7.80	*	27.46	48.08	58.44		0.54		53.60	*	2054	*	19696	*
	Site Average		41.10		29.17		10.21		8.04		27.06	47.22	60.62		0.55		53.81		2113		21526	
	LSD (0.10)		3.92		3.16		1.11		0.46		1.45	2.45	1.90		0.03		3.60		275		4037	
	C.V.		13.18		14.99		14.99		7.98		7.41	7.17	4.33		8.00		9.25		18		26	

[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.

Hybrids are listed in descending order of lb milk/acre.

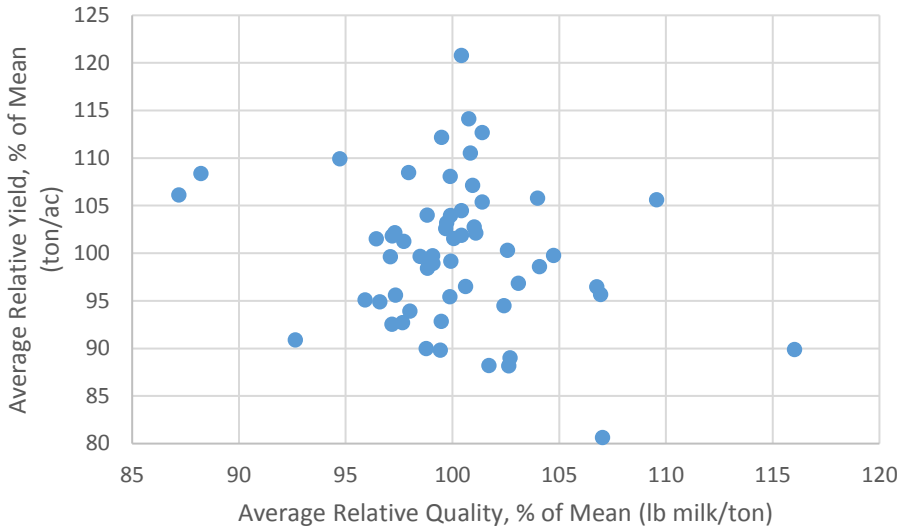
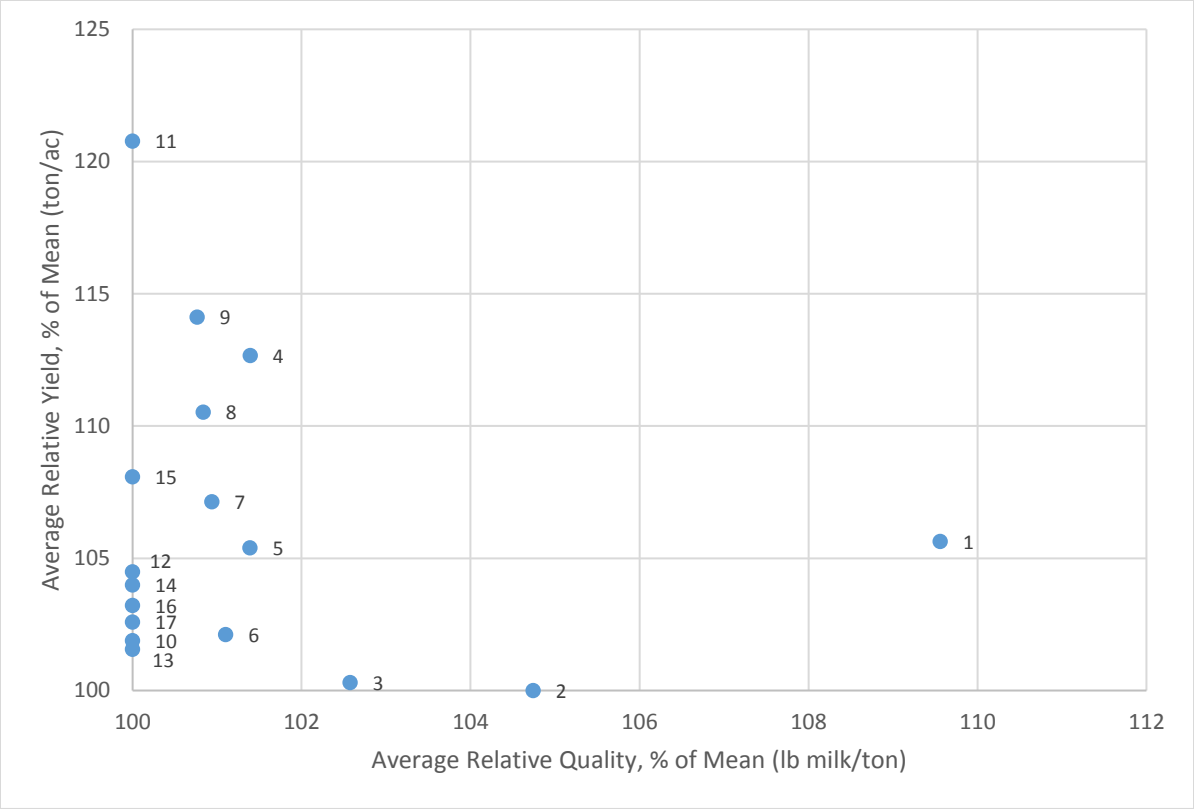


Figure 1. Average relative yield versus quality across sites, 2017



Point	Brand	Hybrid
1	Seed Consultants	SCS 1125YHR™
2	Doebler's	RPM® 5125AM™
3	Pioneer	0843AM
4	Pioneer	1555CHR
5	Seed Consultants	SCS 1168YHR™
6	Augusta	A5065
7	Doebler's	RPM® 5018AM™
8	Mid-Atlantic	MA8157
9	Augusta	A1165
10	Augusta	A8868
11	Seed Consultants	SCS 1131YHR™
12	Mid-Atlantic	MA8147
13	Doebler's	RPM® 5518AM™
14	Seed Consultants	SCS 11HR63™
15	Doebler's	RPM® 5818AM™
16	NK	N83D-3111
17	Progeny Ag Products	PGY7215VT2P

Figure 2. High yielding and high quality hybrids in at least 3 site/year combinations in 2017.