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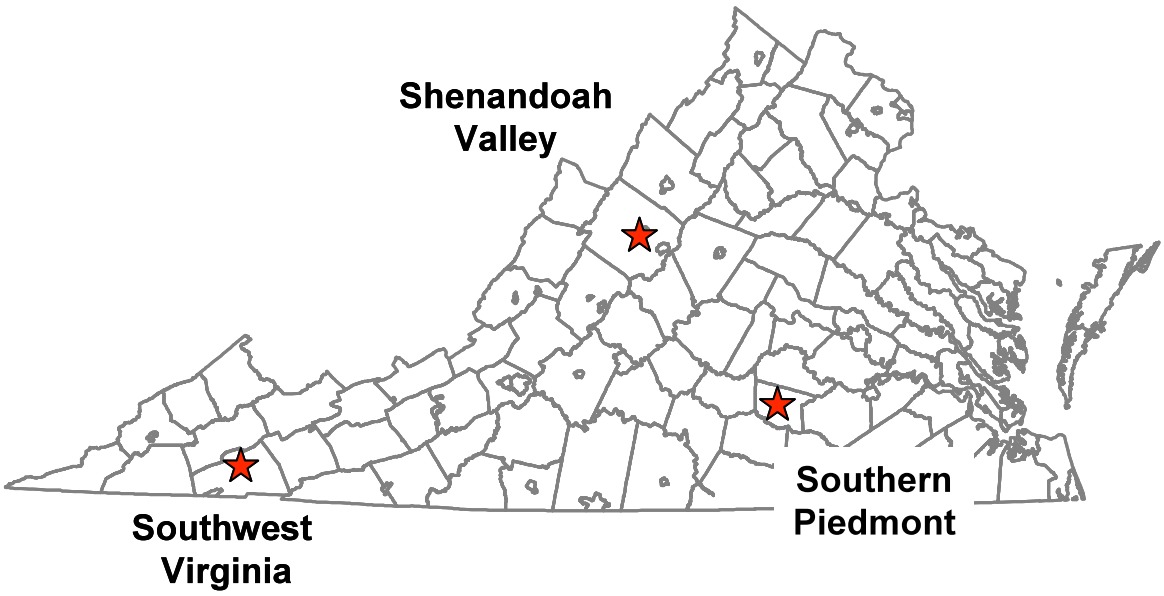
Virginia Tech Corn Silage Testing 2009



2009 Virginia Polytechnic Institute and State University 2912-1426

THE 2009 VIRGINIA CORN SILAGE HYBRID TRIALS

Table of Contents

THE 2009 VIRGINIA CORN SILAGE HYBRID TRIALS

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Alvin Hood; Chris Teutsch; Ned Jones; Phil Blevins.

COMPANIES PARTICIPATING IN THE 2009 CORN SILAGE TRIALS

Company	Brand	Address
Augusta Seed	Augusta Seed	473 Tisdale Farm Lane, Staunton, VA 24401
Croplan Genetics	Croplan Genetics	2827 8th Avenue South, Ft. Dodge, IA 50501
Doebler's PA Hybrids, Inc	Doebler's, RPM	202 Tiadaghton Ave Jersey Shore, PA 17740
Mid-Atlantic Seeds, Inc	Mid-Atlantic Seeds	204 St Charles Way #163 York, PA 17404
Monsanto	DEKALB	800 N Lindbergh Blvd St Louis, MO 63167
Dow AgroSciences	Mycogen Seeds	9330 Zionsville Rd, Indianapolis, IN 46268
Seed Consultants, Inc	Seed Consultants	PO Box 370 Washington Courthouse, OH 43160
Southern States Cooperative, Inc	Southern States	6606 West Broad St Richmond, VA 23230
T.A. Seeds LLC	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 three locations in Virginia in 2009 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 at that particular site-year combination called relative yield. 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. All hybrids entered in the Virginia trials were submitted for testing by commercial companies or by Virginia Tech. 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 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 differences due to uncontrollable variation has been computed for the data and 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 different 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 2009, some hybrids were planted at all three 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 (lbs 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. Values presented in previous years using Milk2000 have been recalculated using Milk2006 in this publication for the purpose of over-years comparisons.

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.

2009 VIRGINIA CORN SILAGE PLOT INFORMATION
(Rates are on a per acre basis.)

Blackstone Southern Piedmont Agricultural Research & Extension Center
Planted: April 25, 2009
Harvested: August 4-5, 2009
Pesticide: 4 lb Force 3G® at planting; 1.5 pt Dual II Magnum® + 7 oz Callisto® + 2 qt atrazine 4L April 28, 2009.
Fertilizer: 1000 lb 10-10-10 preplant incorporated April 17, 2009; 17 gal 20-10-0 + micronutrients at planting; 80 lb N topdressed using 34-0-0 May 28, 2009.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Durham Sandy Loam
Cooperator: Ned Jones

Shenandoah Valley (Waynesboro - Thanks to Kevin Phillips at North Point Farm)
Planted: May 13, 2009
Harvested: September 3, 2009
Pesticide: 1 qt Roundup® + 1.8 qt Lumax® + 1 qt Aatrex® + 1 qt Princep® preplant + 4 lb Force 3G® at planting.
Fertilizer: 6000 gal liquid dairy slurry preplant April 1, 2009 + 17 gal 20-10-0 + micronutrients at planting; 40 lb N broadcast with chemicals.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Coursey loam
Cooperators: Brian Jones and Kevin Phillips

Washington County (Thanks to Johnny Robinson)
Planted: May 14, 2009
Harvested: September 30, 2009
Pesticide: burndown of cover with Roundup® and 2,4-D; 2 qt Lumax®.
Fertilizer: 90 lb N + 205 lb K with NutriSphere preplant; 17 gal 20-10-0 with micronutrients at planting; 90 lb N with NutriSphere topdress.
Plot Size: 2 rows 35' x 30" 4 replications
Soil Type: Wyrick-Marbie
Cooperators: Phil Blevins and Johnny Robinson

Table 1. List of Hybrids in the 2009 VA Tech Corn Silage Hybrid Test

Brand	Hybrid	IST[1]	GT[2]	DTM[3]	OBS[4]
Augusta	A08-20LL	PL	GU	117	3
Augusta	A06-07CBLL	PL	CB/GU	107	3
Augusta	A06-10HX	PL	CB/GU	113	3
Augusta	A06-06CBLL	PH	CB/GU	111	3
Augusta	A008CBQ	PH	CB	117	3
Augusta	A08-13HX	PL	CB/GU	117	3
Augusta	A08-01GTCBLL	PL	CB/GU/GY	114	3
Augusta	A91-69VT3	PL	CB/GY/RW	119	3
Augusta	A54-59CBLL	PL	CB/GU	109	3
Augusta	A61-66CBLL	PL	CB/GU	115	3
Augusta	A62-65CBLL	PL	CB/GU	116	3
Augusta	A91-67VT3	PL	CB/GU	117	3
Croplan Genetics	CG 851 VT3	C	CB/GY/RW	118	2
Croplan Genetics	CG 8221 VT3	C	CB/GY/RW	118	2
Croplan Genetics	CG 7505 VT3	C	CB/GY/RW	115	2
DEKALB	DKC67-87(RR2/YGCB)	PL	CB/GY	117	3
DEKALB	DKC64-24(VT3)	PL	CB/GY/RW	114	3
DEKALB	DKC65-44(VT3)	PL	CB/GY/RW	115	3
DEKALB	DKC69-40(VT3)	PL	CB/GY/RW	119	3
DEKALB	DKC65-63(VT3)	PL	CB/GY/RW	115	3
Doebler's	771XRR	PH	GY	114	3
Mid-Atlantic	MA5158	PL		115	2
Mid-Atlantic	MA8138VT3	PL	CB/GY/RW	112	2
Mid-Atlantic	MA5128HXT	PL	CB/GU/GY/RW	111	2
Mid-Atlantic	MA8148VT3	PL	CB/GY/RW	112	2
Mid-Atlantic	MA8109RR	PL	GY	110	2
Mid-Atlantic	MA8153RR	PL	GY	115	2
Mid-Atlantic	MA8152VT3	PL	CB/GY/RW	115	2
Mid-Atlantic	MA8150VT3	PL	CB/GY/RW	115	2
Mid-Atlantic	MA5085	PL		106	3
Mid-Atlantic	MA8105VT3	PL	CB/GY/RW	105	3
Mid-Atlantic	MA5055GTCBLL	PL	CB/GU	103	3
Mid-Atlantic	MA9094	PL		108	3
Mid-Atlantic	MA8029VT3	PL	CB/GY/RW	102	3
Mid-Atlantic	MA8088VT3	PL	CB/GY/RW	108	3
Mycogen Seeds	TMF2L844	C	GY	119	1
Mycogen Seeds	F2F797	C		115	1
Mycogen Seeds	TMF2L831	C	CB/GY/RW	118	3
Mycogen Seeds	TMF2H918	C	CB/GU/GY	123	3
RPM	RPM 728HXR	PH	CB/GU/GY	115	3
Seed Consultants	SC 11VTT48	C	CB/GY/RW	113	3
Seed Consultants	SC 11VTT56	C	CB/GY/RW	114	3
Seed Consultants	SC 11VTT86	C	CB/GY/RW	118	3
Seed Consultants	SCS 11HQ38	C	CB/GU/GY/RW	112	3
Seed Consultants	SCS 11HQ39	C	CB/GU/GY/RW	113	3
Seed Consultants	SC 11VTT45	C	CB/GY/RW	114	3
Seed Consultants	SCS 11HR69	C	CB/GU/GY	116	3
Seed Consultants	SC 11VTT79	C	CB/GY/RW	117	3
Seed Consultants	SC 11VTT97	C	CB/GY/RW	119	3
Seed Consultants	SC 11VTT58	C	CB/GY/RW	114	3
Seed Consultants	SCS 11HQ80	C	CB/GU/GY	117	3

Table 1. List of Hybrids in the 2009 VA Tech Corn Silage Hybrid Test

Brand	Hybrid	IST[1]	GT[2]	DTM[3]	OBS[4]
Seed Consultants	SCS 12HQ00	C	CB/GU/GY	119	3
Southern States	SS 731 CL	PH	IT	115	1
T.A. Seeds	TA780-13V	PL	CB/GY/RW	115	3
T.A. Seeds	TA700-15	PL	CB/GU/RW	112	3
T.A. Seeds	TA717-19	PL	CB/GU/GY/RW	114	3

[1] Insecticidal Seed Treatment (IST) PL = Poncho 250®, PH = Poncho 1250®, C = Cruiser®.

[2] Genetic Trait (GT), where CB = Bt corn borer, Herculex™ corn borer, or YieldGard® corn borer; RW = Bt root worm, Herculex™ root worm, Agrisure® root worm, or YieldGard® root worm; GY = glyphosate-tolerant and includes Roundup® Ready, Roundup® Ready Corn 2, Agrisure®; IT = imidazolinanon-tolerant and includes Clearfield®; GU = gluphosinate-ammonium-tolerant and includes Liberty Link®.

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

[4] 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.

Table 2. Multi-year, Multi-site Relative Ton per Acre (Yield)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2009	2008	2009	2008	2009	2008		
			Relative Ton per Acre[3]							
RPM	RPM 728HXR	115	135 *		105 *		112 *		117	3
Seed Consultants	SC 11VTT58	114	109		102		122 *		111	3
DEKALB	DKC67-87(RR2/YGCB)	117	107	117 *	115 *	107	119 *	100	111	6
Mid-Atlantic	MA8138VT3	112	106	113 *	109 *	104		119 *	110	5
Mycogen Seeds	TMF2L831	118	100		114 *		115 *		110	3
Seed Consultants	SCS 11HQ80	117	111		100		117 *		109	3
Croplan Genetics	CG 7505 VT3	115	98				121 *		109	2
Seed Consultants	SC 11VTT86	118	104	118 *	103	114	117 *	97	109	6
Seed Consultants	SCS 11HQ39	113	111		105 *		108 *		108	3
Croplan Genetics	CG 851 VT3	118	99				115 *		107	2
Mid-Atlantic	MA8148VT3	112	109		105 *				107	2
Seed Consultants	SCS 11HQ38	112	98		102		120 *		107	3
Augusta	A06-10HX	113	106	113 *	101	108	100 *	111 *	107	6
Seed Consultants	SCS 11HR69	116	112		105 *		103 *		107	3
Mid-Atlantic	MA8088VT3	108	114	108 *	99	94	116 *	107 *	106	6
Southern States	SS 731 CL	115	106						106	1
Seed Consultants	SC 11VTT79	117	97		103		118 *		106	3
Seed Consultants	SCS 12HQ00	119	100		112 *		104 *		105	3
DEKALB	DKC65-63(VT3)	115	124 *		96		95		105	3
Augusta	A08-13HX	117	112	117 *	100	102	90	108 *	105	6
Augusta	A008CBQ	117	99	117 *	100	92	98	121 *	105	6
Seed Consultants	SC 11VTT45	114	108		112 *		93		104	3
Mid-Atlantic	MA8109RR	110	106		101				104	2
Mid-Atlantic	MA5158	115	98	115 *	107 *	100		97	103	5
Mid-Atlantic	MA8150VT3	115	107	115 *	95	102		98	103	5
Augusta	A91-69VT3	119	101		90		118 *		103	3
Mid-Atlantic	MA8153RR	115	108		98				103	2
Seed Consultants	SC 11VTT56	114	96	114 *	111 *	100	99	96	103	6
Augusta	A91-67VT3	117	88		105 *		114 *		102	3
T.A. Seeds	TA780-13V	115	106	116	100	99	105 *	86	102	6
Croplan Genetics	CG 8221 VT3	118	88				114 *		101	2
Mycogen Seeds	TMF2H918	123	97		94		111 *		101	3
Doebler's	771XRR	114	72	114 *	99	112	111 *	90	100	6
Seed Consultants	SC 11VTT48	113	115 *	113 *	103	92	112 *	58	99	6
Seed Consultants	SC 11VTT97	119	84		98		114 *		99	3
Augusta	A61-66CBLL	115	97		96		102 *		98	3
T.A. Seeds	TA700-15	112	105		101		88		98	3
Augusta	A54-59CBLL	109	90		101		102 *		98	3
Augusta	A08-01GTCBLL	114	100		102		89		97	3
Mid-Atlantic	MA5128HXT	111	89		103				96	2
Mid-Atlantic	MA8152VT3	115	103		88				96	2
Mycogen Seeds	F2F797	115	95						95	1
DEKALB	DKC69-40(VT3)	119	103		85		98		95	3
Augusta	A06-07CBLL	107	96	107 *	109 *	89	82	87	95	6

Table 2. Multi-year, Multi-site Relative Ton per Acre (Yield)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2009	2008	2009	2008	2009	2008		
			Relative Ton per Acre[3]							
Augusta	A06-06CBLL	111	107		95		80		94	3
DEKALB	DKC64-24(VT3)	114	95	114	95	88	85	87	94	6
Mid-Atlantic	MA5085	106	108		93		78		93	3
Mid-Atlantic	MA8105VT3	105	68	105 *	97	85	86	117 *	93	6
Mycogen Seeds	TMF2L844	119	92						92	1
Augusta	A62-65CBLL	116	92		97		82		90	3
T.A. Seeds	TA717-19	114	99		94		77		90	3
Mid-Atlantic	MA5055GTCBLL	103	92		92		86		90	3
DEKALB	DKC65-44(VT3)	115	101		86		80		89	3
Augusta	A08-20LL	117	91		99		77		89	3
Mid-Atlantic	MA8029VT3	102	78		95		66		80	3
Mid-Atlantic	MA9094	108	74		85		47		69	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 not significantly different from the highest value in that column (i.e. within on LSD of the top performer).
Shading indicates hybrids within one LSD of the top performer for that site/year which appeared in at least three or more site/years.

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

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2009	2008	2009	2008	2009	2008		
			Relative Milk per Ton[3]							
Augusta	A06-07CBLL	107	103 *	125 *	101	99	101	101 *	105	6
Mid-Atlantic	MA8150VT3	115	104 *	114 *	104 *	101		102 *	105	5
Mid-Atlantic	MA9094	108	105 *		106 *		103 *		105	3
Seed Consultants	SC 11VTT45	114	104 *		100		109 *		104	3
Mid-Atlantic	MA8105VT3	105	97	124 *	95	101	104 *	102 *	104	6
Croplan Genetics	CG 8221 VT3	118	101 *				106 *		104	2
Mycogen Seeds	F2F797	115	103 *						103	1
Mid-Atlantic	MA5158	115	102 *	102 *	102	106 *		100 *	102	5
Seed Consultants	SC 11VTT79	117	100		100		107 *		102	3
Seed Consultants	SCS 11HQ39	113	102 *		102		101		102	3
Augusta	A62-65CBLL	116	101 *		102		102		102	3
Mid-Atlantic	MA8109RR	110	103 *		100				101	2
Seed Consultants	SCS 11HQ38	112	102 *		99		103 *		101	3
Croplan Genetics	CG 851 VT3	118	101 *				101		101	2
Mid-Atlantic	MA8088VT3	108	104	104 *	101	102	94	101 *	101	6
Seed Consultants	SC 11VTT97	119	97		103 *		104 *		101	3
DEKALB	DKC65-63(VT3)	115	103 *		98		102		101	3
Mid-Atlantic	MA8153RR	115	101 *		101				101	2
Seed Consultants	SCS 11HQ80	117	102 *		103 *		98		101	3
Augusta	A008CBQ	117	102	101 *	104 *	101	104 *	94	101	6
Augusta	A06-10HX	113	101 *	98 *	100	100	101	104 *	101	6
Southern States	SS 731 CL	115	101 *						101	1
Augusta	A91-67VT3	117	99 *		99		104 *		100	3
T.A. Seeds	TA700-15	112	99		102		100		100	3
Mid-Atlantic	MA8138VT3	112	101 *	106 *	101	98		96	100	5
DEKALB	DKC69-40(VT3)	119	101 *		103 *		97		100	3
Seed Consultants	SCS 12HQ00	119	99		103 *		99		100	3
Doebler's	771XRR	114	103 *	99 *	102	100	98	100 *	100	6
Augusta	A61-66CBLL	115	101 *		99		100		100	3
Mycogen Seeds	TMF2L831	118	98		99		103 *		100	3
Mid-Atlantic	MA5085	106	102 *		101		97		100	3
T.A. Seeds	TA717-19	114	102 *		99		98		100	3
DEKALB	DKC65-44(VT3)	115	103 *		101		96		100	3
DEKALB	DKC64-24(VT3)	114	104 *	88	97	103 *	101	104 *	100	6
Mid-Atlantic	MA5128HXT	111	100		99				99	2
Seed Consultants	SCS 11HR69	116	100		101		97		99	3
T.A. Seeds	TA780-13V	115	106 *	76	105 *	98	110 *	101 *	99	6
Seed Consultants	SC 11VTT86	118	96	102 *	99	100	99	99 *	99	6
Seed Consultants	SC 11VTT58	114	97		102		98		99	3
DEKALB	DKC67-87(RR2/YGCB)	117	99	104 *	96	98	99	96	99	6
Mid-Atlantic	MA8148VT3	112	97		100				99	2
Seed Consultants	SC 11VTT56	114	97	96 *	99	99	100	100 *	99	6
Augusta	A08-13HX	117	100 *	102 *	100	96	98	95	99	6
Augusta	A06-06CBLL	111	99 *		103 *		94		98	3

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

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2009	2008	2009	2008	2009	2008		
			Relative Milk per Ton[3]							
RPM	RPM 728HXR	115	99		99		98		98	3
Croplan Genetics	CG 7505 VT3	115	101 *				95		98	2
Mycogen Seeds	TMF2H918	123	96		97		102		98	3
Augusta	A08-20LL	117	100		93		101		98	3
Mid-Atlantic	MA5055GTCBLL	103	99		97		98		98	3
Seed Consultants	SC 11VTT48	113	96	106 *	101	100	107 *	76	98	6
Mid-Atlantic	MA8152VT3	115	93		102				98	2
Augusta	A54-59CBLL	109	102		94		95		97	3
Mycogen Seeds	TMF2L844	119	96						96	1
Augusta	A08-01GTCBLL	114	93		98		95		95	3
Augusta	A91-69VT3	119	97		98		91		95	3
Mid-Atlantic	MA8029VT3	102	92		90		91		91	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 not significantly different from the highest value in that column (i.e. within on LSD of the top performer).
Shading indicates hybrids within one LSD of the top performer for that site/year which appeared in at least three or more site/years.

Table 4. Multi-year, Multi-site Relative Milk per Acre (Yield X Quality)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2009	2008	2009	2008	2009	2008		
			Relative Milk per Acre[3]							
RPM	RPM 728HXR	115	132 *		103		110 *		115	3
Seed Consultants	SCS 11HQ39	113	114 *		108 *		110 *		110	3
Seed Consultants	SCS 11HQ80	117	113 *		103		114 *		110	3
Mycogen Seeds	TMF2L831	118	98		113 *		118 *		110	3
Seed Consultants	SC 11VTT58	114	106		103		120 *		110	3
Seed Consultants	SC 11VTT79	117	97		103		126 *		109	3
Seed Consultants	SC 11VTT45	114	113 *		112 *		102		109	3
Croplan Genetics	CG 851 VT3	118	100				116 *		108	2
Mid-Atlantic	MA8138VT3	112	106	107 *	110 *	102		114 *	108	5
Seed Consultants	SCS 11HQ38	112	100		101		123 *		108	3
Southern States	SS 731 CL	115	107						107	1
Croplan Genetics	CG 7505 VT3	115	99				115 *		107	2
DEKALB	DKC65-63(VT3)	115	129 *		94		97		107	3
DEKALB	DKC67-87(RR2/YGCB)	117	106	100 *	111 *	106	118 *	96	106	6
Seed Consultants	SCS 11HR69	116	112 *		106 *		100		106	3
Seed Consultants	SCS 12HQ00	119	100		115 *		103		106	3
Augusta	A06-10HX	113	108	99 *	101	109	101	116 *	106	6
Mid-Atlantic	MA8148VT3	112	105		106 *				105	2
Mid-Atlantic	MA8088VT3	108	120	96 *	100	96	110 *	109	105	6
Mid-Atlantic	MA8150VT3	115	111 *	113 *	98	103		99	105	5
Mid-Atlantic	MA8109RR	110	108		101				105	2
Seed Consultants	SC 11VTT86	118	99	102 *	102	113	115 *	97	105	6
Croplan Genetics	CG 8221 VT3	118	89				121 *		105	2
Mid-Atlantic	MA5158	115	100	108 *	110 *	106		97	104	5
Mid-Atlantic	MA8153RR	115	109		99				104	2
Augusta	A91-67VT3	117	87		104		118 *		103	3
Augusta	A008CBQ	117	100	102 *	104	92	102	112 *	102	6
Augusta	A08-13HX	117	112	103 *	100	98	88	101	100	6
Seed Consultants	SC 11VTT48	113	110	108 *	104	92	119 *	68	100	6
Seed Consultants	SC 11VTT97	119	81		100		118 *		100	3
Mycogen Seeds	TMF2H918	123	93		91		113 *		99	3
T.A. Seeds	TA780-13V	115	113 *	78	105 *	97	115 *	87	99	6
T.A. Seeds	TA700-15	112	105		104		88		99	3
Seed Consultants	SC 11VTT56	114	93	93	110 *	99	100	96	99	6
Augusta	A61-66CBLL	115	97		95		102		98	3
Augusta	A06-07CBLL	107	98	121 *	110 *	89	83	87	98	6
Mycogen Seeds	F2F797	115	98						98	1
Augusta	A91-69VT3	119	98		88		108 *		98	3
Doebler's	771XRR	114	74	99 *	101	113	109 *	90	98	6
Mid-Atlantic	MA8105VT3	105	66	123 *	92	86	89	120 *	96	6
DEKALB	DKC69-40(VT3)	119	104		87		95		95	3
Mid-Atlantic	MA5128HXT	111	90		101				95	2
Augusta	A54-59CBLL	109	91		95		97		95	3
Mid-Atlantic	MA5085	106	110		94		76		93	3

Table 4. Multi-year, Multi-site Relative Milk per Acre (Yield X Quality)

Brand	Hybrid	DTM per Co.[1]	Shenandoah Valley		Southern Piedmont		Southwest / Mountain		Multi-Site Average	Number of Obs.[2]
			2009	2008	2009	2008	2009	2008		
			Relative Milk per Acre[3]							
Mid-Atlantic	MA8152VT3	115	96		90				93	2
Augusta	A06-06CBLL	111	106		98		75		93	3
Augusta	A08-01GTCBLL	114	94 *		99		85		93	3
Augusta	A62-65CBLL	116	93		99		85		92	3
DEKALB	DKC64-24(VT3)	114	99	90	92	91	85	90	91	6
T.A. Seeds	TA717-19	114	101		93		75		90	3
DEKALB	DKC65-44(VT3)	115	104		87		77		89	3
Mycogen Seeds	TMF2L844	119	88						88	1
Mid-Atlantic	MA5055GTCBLL	103	91		89		84		88	3
Augusta	A08-20LL	117	91		92		78		87	3
Mid-Atlantic	MA8029VT3	102	72		86		60		72	3
Mid-Atlantic	MA9094	108	77		90		49		72	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 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 not significantly different from the highest value in that column (i.e. within on LSD of the top performer).
Shading indicates hybrids within one LSD of the top performer for that site/year which appeared in at least three or more site/years.

Table 5. 2009 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	
RPM	RPM 728HXR	115	38.18	*	29.87	*	10.46	*	6.03	32.48	54.71	58.12		0.640	*	65.13		2799		29029	*
DEKALB	DKC65-63(VT3)	115	36.14		27.51	*	9.63	*	6.45	29.34	50.49	54.43		0.655	*	66.66	*	2924	*	28291	*
Mid-Atlantic	MA8150VT3	115	32.88		25.30		8.85		5.71	31.36	52.97	58.53		0.645	*	67.06	*	2956	*	26271	*
Seed Consultants	SCS 11HQ39	113	34.32		24.60		8.61		5.85	32.05	54.86	61.09		0.642	*	66.34	*	2897	*	24960	*
Seed Consultants	SCS 11HQ80	117	34.79		24.59		8.61		5.87	32.49	54.80	58.32		0.639	*	66.16	*	2883	*	24803	*
T.A. Seeds	TA780-13V	115	32.68		23.40		8.19		5.67	31.11	52.17	58.56		0.647	*	67.81	*	3017	*	24794	*
Seed Consultants	SC 11VTT45	114	34.52		23.92		8.37		5.89	31.85	52.79	57.27		0.643	*	67.05	*	2956	*	24729	*
Augusta	A08-01GTCBLL	114	34.35		24.76		8.67		6.19	32.91	56.15	55.68		0.637	*	65.71		2847		24700	*
Seed Consultants	SCS 11HR69	116	36.29		24.75		8.66		5.99	32.18	54.04	57.92		0.641	*	65.56		2835		24587	*
Augusta	A06-07CBLL	107	34.99		23.74		8.31		5.82	30.65	51.85	55.34		0.649	*	66.85	*	2939	*	24370	
Mid-Atlantic	MA5085	106	36.67	*	23.86		8.35		6.11	30.49	51.23	56.01		0.649	*	66.24	*	2890	*	24136	
Seed Consultants	SC 11VTT48	113	35.70		25.48	*	8.92	*	5.88	35.75	* 59.13	* 56.97		0.623		64.20		2724		24108	
Mid-Atlantic	MA8153RR	115	31.33		23.81		8.33		6.51	34.64	58.15	56.53		0.628		65.91	*	2863	*	23870	
Mid-Atlantic	MA8109RR	110	35.41		23.34		8.17		6.01	30.43	51.98	54.08		0.650	*	66.72	*	2928	*	23815	
Augusta	A06-06CBLL	111	34.34		23.39		8.19		5.59	32.84	55.31	56.04		0.638	*	66.10	*	2878	*	23693	
Southern States	SS 731 CL	115	29.93		23.46		8.21		5.60	35.81	* 58.73	* 54.51		0.622		65.77	*	2852	*	23560	
Mid-Atlantic	MA8138VT3	112	31.13		23.37		8.18		6.06	34.73	58.03	56.54		0.628		65.98	*	2869	*	23367	
Augusta	A008CBQ	117	34.48		23.70		8.30		5.29	34.62	57.59	57.49		0.629		65.08		2796		23354	
Seed Consultants	SC 11VTT58	114	32.27		24.12		8.44		6.10	36.92	* 61.41	* 58.32		0.617		64.55		2753		23273	
DEKALB	DKC67-87(RR2/YGCB)	117	34.71		23.62		8.27		6.11	34.58	56.74	52.99		0.629		65.26		2810		23230	
Mid-Atlantic	MA8148VT3	112	35.50		24.01		8.40		6.00	34.96	59.05	* 58.34		0.627		64.57		2754		23110	
T.A. Seeds	TA700-15	112	33.75		23.14		8.10		5.93	34.46	58.42	57.40		0.629		65.22		2807		22969	
DEKALB	DKC65-44(VT3)	115	33.73		22.42		7.85		6.47	31.63	54.63	59.18		0.644	*	66.54	*	2914	*	22850	
DEKALB	DKC69-40(VT3)	119	34.13		22.71		7.95		6.63	32.57	55.65	57.68		0.639	*	66.06	*	2875	*	22819	
T.A. Seeds	TA717-19	114	36.24		21.87		7.66		5.92	30.07	51.75	55.62		0.651	*	66.27	*	2892	*	22178	
Augusta	A08-13HX	117	33.93		21.82		7.64		5.67	32.42	55.86	57.35		0.640	*	66.13	*	2881	*	22030	
Croplan Genetics	CG 851 VT3	118	31.31		21.92		7.67		6.21	34.52	57.55	57.86		0.629		65.97	*	2868	*	21983	
Mid-Atlantic	MA5158	115	33.93		21.74		7.61		6.38	33.24	55.18	58.36		0.635		66.29	*	2894	*	21980	
Seed Consultants	SCS 11HQ38	112	32.98		21.66		7.58		6.41	33.64	56.56	59.07		0.633		66.30	*	2895	*	21951	
Seed Consultants	SCS 12HQ00	119	32.30		22.15		7.75		5.65	35.34	* 59.53	* 58.82		0.625		65.21		2806		21904	
Seed Consultants	SC 11VTT86	118	30.17		23.02		8.06		5.62	39.23	* 62.94	* 56.20		0.605		64.13		2719		21818	
Croplan Genetics	CG 7505 VT3	115	32.59		21.68		7.59		6.00	33.11	56.75	58.88		0.636		66.02	*	2872	*	21816	
DEKALB	DKC64-24(VT3)	114	29.88		20.98		7.34		6.28	31.06	52.70	56.63		0.647	*	66.96	*	2948	*	21668	
Augusta	A54-59CBLL	109	37.38	*	22.39		7.84		6.16	32.09	55.11	56.52		0.642	*	64.56		2753		21627	
Augusta	A06-10HX	113	34.68		21.22		7.43		6.67	30.11	53.10	60.08		0.652	*	66.53	*	2913	*	21596	
Mycogen Seeds	TMF2L831	118	35.39		22.05		7.72		6.30	34.23	57.95	58.22		0.631		65.01		2790		21588	
Mycogen Seeds	F2F797	115	30.89		21.05		7.37		6.07	32.00	56.51	69.74	*	0.642	*	66.62	*	2920	*	21530	
Seed Consultants	SC 11VTT79	117	31.06		21.42		7.50		6.52	34.98	58.06	57.05		0.627		65.74		2849		21385	
Augusta	A62-65CBLL	116	30.13		21.39		7.49		5.67	34.31	57.00	58.22		0.630		65.77	*	2852	*	21365	
Mid-Atlantic	MA8152VT3	115	38.33	*	22.82		7.99		5.25	34.73	57.53	56.11		0.628		63.25		2647		21154	
Augusta	A91-69VT3	119	33.54		22.21		7.77		5.96	37.82	* 64.00	* 55.74		0.612		63.28		2650		20644	
Seed Consultants	SC 11VTT56	114	35.58		21.24		7.43		5.80	34.96	57.97	55.66		0.627		64.44		2744		20529	
Mycogen Seeds	TMF2H918	123	27.86		21.47		7.51		6.06	37.61	* 62.82	* 60.80		0.613		64.16		2721		20521	
Augusta	A91-67VT3	117	33.20		20.26		7.09		6.39	33.11	56.86	58.78		0.636		65.95	*	2866	*	20409	
Mid-Atlantic	MA8088VT3	108	36.89	*	20.04		7.01		6.21	31.11	53.14	56.09		0.647	*	65.48		2828		20074	
Augusta	A61-66CBLL	115	32.28		19.86		6.95		6.44	33.12	56.04	56.18		0.636		66.38	*	2901	*	20059	
Mid-Atlantic	MA5055GTCBLL	103	38.90	*	20.38		7.13		5.58	28.99	49.28	58.05		0.657	*	65.08		2796		20006	
Mid-Atlantic	MA5128HXT	111	35.59		19.68		6.89		6.07	31.74	53.85	56.25		0.643	*	65.72		2847		19667	
Croplan Genetics	CG 8221 VT3	118	32.56		19.48		6.82		5.73	34.28	56.70	56.02		0.630		66.02	*	2872	*	19506	

Table 5. 2009 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
Mycogen Seeds	TMF2L844	119	29.56	20.44	7.16	5.59	38.60 *	63.04 *	57.03	0.608	64.09	2716	19356
Augusta	A08-20LL	117	35.81	19.36	6.78	6.02	32.32	55.35	57.58	0.640 *	65.38	2820	19177
Seed Consultants	SC 11VTT97	119	28.09	18.64	6.52	6.09	38.61 *	62.11 *	57.48	0.608	64.43	2743	17822
Mid-Atlantic	MA9094	108	32.47	16.39	5.74	6.54	31.63	54.14	59.17	0.644 *	67.34 *	2979 *	16856
Doebler's	771XRR	114	27.97	15.87	5.56	6.93 *	32.04	55.57	60.84	0.642 *	66.53 *	2913 *	16269
Mid-Atlantic	MA8029VT3	102	40.44 *	17.19	6.02	6.03	32.43	54.82	54.68	0.640 *	62.87	2616	15710
Mid-Atlantic	MA8105VT3	105	34.98	14.97	5.24	6.23	34.11	58.20	56.82	0.631	64.51	2750	14511
	Site Average		33.77	22.10	7.74	6.04	33.34	56.27	57.44	0.635	65.59	2837	21973
	LSD (0.10)		3.84	4.54	1.59	0.50	4.04	5.51	2.32	0.021	2.05	166	4601
	CV		9.13	16.50	16.50	6.65	9.71	7.86	3.24	2.607	2.51	5	17

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

* Indicates numbers not significantly different from the highest value in that column (i.e. within one LSD of the top performer).

Table 6. Two-Year Average Corn Silage Test Results (2008 & 2009) 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	
Mid-Atlantic	MA8150VT3	115	42.19	*	22.26	*	7.79	*	6.18	31.14		53.50		58.84	*	0.614	*	64.76		2743	*	21677	*
Augusta	A06-07CBLL	107	45.25	*	22.41	*	7.84	*	6.09	29.67		52.11		56.24		0.611	*	64.12		2707		21318	*
Mid-Atlantic	MA8138VT3	112	36.97		20.66	*	7.23	*	6.44	32.27		55.25		56.79		0.610	*	64.50		2738	*	19788	*
Seed Consultants	SC 11VTT48	113	44.19	*	21.18	*	7.41	*	6.68	31.65		54.77		57.28		0.607		63.64		2666		19678	*
DEKALB	DKC67-87(RR2/YGCB)	117	42.78	*	20.64	*	7.23	*	6.36	32.90		55.53		54.19		0.598		62.90		2623		19184	*
Mid-Atlantic	MA5158	115	39.84		19.54	*	6.84	*	6.54	31.77		54.56		59.56	*	0.619	*	65.51	*	2793	*	19179	*
Augusta	A008CBQ	117	43.14	*	19.87	*	6.96	*	6.26	31.65		54.57		58.82	*	0.605		63.92		2670		18788	*
Augusta	A08-13HX	117	39.05		19.52	*	6.83	*	6.06	31.28		54.94		57.48		0.614	*	64.31		2721		18783	*
Seed Consultants	SC 11VTT86	118	35.95		20.17	*	7.06	*	6.18	37.04	*	61.35	*	57.65		0.594		63.45		2635		18602	*
Augusta	A06-10HX	113	41.38		18.88		6.61		6.87	* 29.96		53.72		60.20	*	0.621	*	64.93	*	2750	*	18289	
T.A. Seeds	TA780-13V	115	39.58		17.41		6.09		6.31	31.26		54.14		60.31	*	0.623	*	66.22	*	2836	*	17381	
Mid-Atlantic	MA8088VT3	108	45.88	*	18.79		6.58		6.43	32.30		55.93		56.48		0.602		62.83		2604		17332	
DEKALB	DKC64-24(VT3)	114	41.48		17.44		6.10		6.63	29.01		51.46		58.13		0.616	*	65.08	*	2767	*	17036	
Seed Consultants	SC 11VTT56	114	43.65	*	18.36		6.43		6.47	34.14		58.21	*	57.71		0.594		62.91		2589		16827	
Mid-Atlantic	MA8105VT3	105	40.91		18.45		6.46		6.30	33.44		58.31	*	58.05		0.599		63.17		2609		16821	
Doebler's	771XRR	114	38.27		16.31		5.71		7.09	* 31.77		56.11		60.26	*	0.612	*	64.64		2729		15600	
	Site Average		41.24		19.53		6.84		6.43	31.96		55.28		57.98		0.609		64.18		2699		18555	
	LSD (0.10)		4.21		3.36		1.18		0.37	2.76		4.07		1.84		0.015		1.44		106		3124	
	CV		11.97		20.15		20.15		6.76	10.11		8.62		3.72		2.947		2.62		5		20	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
* Indicates numbers not significantly different from the highest value in that column (i.e. within one LSD of the top performer).

Table 7. Three-Year Average Corn Silage Test Results (2007, 2008 & 2009) 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	
Mid-Atlantic	MA8088VT3	108	44.58	*	18.80	*	6.58	*	6.38	30.90	*	53.99	*	57.62		0.617		63.65		2670	*	17749	*
Augusta	A06-10HX	113	39.89		18.37	*	6.43	*	6.88	* 29.02		52.61	*	61.29	*	0.633	*	65.99		2670	*	17471	*
T.A. Seeds	TA780-13V	117	38.23		18.55	*	6.49	*	6.28	29.21		51.70	*	62.23	*	0.642	*	67.61	*	2634	*	17070	*
DEKALB	DKC67-87(RR2/YGCB)	107	40.79		18.30	*	6.41	*	6.19	31.66	*	54.31	*	57.65		0.618		64.61		2590	*	16941	*
	Site Average		40.79		18.49		6.47		6.43	30.22		53.16		59.70		0.627		65.49		2639		17289	
	LSD (0.10)		3.35		2.72		0.95		0.29	2.26		3.06		1.50		0.013		1.19		208		2882	
	CV		11.21		20.06		20.06		6.20	10.19		7.87		3.44		2.928		2.48		11		23	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
* Indicates numbers not significantly different from the highest value in that column (i.e. within one LSD of the top performer).

Table 8. 2009 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	
Seed Consultants	EX SCS 9120RR	119	33.38		23.57	*	8.25	*	6.33		30.48		52.32		52.98		0.650		67.64	*	3003	*	24778	*
Mycogen Seeds	TMF2L831	118	35.00		24.16	*	8.46	*	6.78		31.24		53.80		53.24		0.646		66.21		2887		24460	*
Seed Consultants	SC 11VTT45	114	34.88		23.58	*	8.25	*	6.73		29.32		51.63		54.23	*	0.656		66.78		2933		24170	*
DEKALB	DKC67-87(RR2/YG	117	38.74	*	24.30	*	8.51	*	6.39		29.02		49.76		51.67		0.657		65.28		2811		23891	*
Mid-Atlantic	MA8138VT3	112	32.35		22.94	*	8.03	*	6.74		31.05		54.57		53.95		0.647		67.07		2957		23758	*
Augusta	A06-07CBLL	107	36.09		22.96	*	8.04	*	6.58		27.99		48.80		51.45		0.662	*	67.12		2961		23742	*
Mid-Atlantic	MA5158	115	35.23		22.57	*	7.90	*	7.03		28.33		49.63		52.85		0.661	*	67.55		2995		23685	*
Seed Consultants	SC 11VTT56	114	36.45		23.36	*	8.18	*	6.41		29.35		50.76		52.86		0.656		66.38		2901		23679	*
Seed Consultants	SCS 11HQ39	113	34.36		22.24	*	7.78	*	6.66		29.40		51.46		54.19	*	0.655		67.46		2988		23255	*
Seed Consultants	SCS 11HR69	116	35.84		22.19	*	7.77	*	6.60		28.70		50.16		52.67		0.659		67.05		2955		22951	*
Mid-Atlantic	MA8148VT3	112	34.95		22.27	*	7.79	*	6.94		30.03		52.43		52.66		0.652		66.72		2928		22812	*
T.A. Seeds	TA780-13V	115	31.93		21.13		7.40		6.52		30.02		51.83		53.93		0.652		68.35	*	3060	*	22637	*
Augusta	A008CBQ	117	31.25		21.15		7.40		6.63		30.48		52.37		53.22		0.650		68.09	*	3039	*	22486	
Seed Consultants	SC 11VTT48	113	31.51		21.70		7.60		7.05		30.57		53.81		52.65		0.649		67.13		2962		22484	
T.A. Seeds	TA700-15	112	34.16		21.40		7.49		6.71		28.96		51.06		53.28		0.657		67.54		2995		22467	
Augusta	A91-67VT3	117	37.00		22.23	*	7.78	*	7.05		28.24		50.37		53.56		0.661	*	66.13		2881		22436	
Seed Consultants	SC 11VTT58	114	33.31		21.47		7.52		6.79		30.66		53.12		53.22		0.649		67.36		2980		22345	
RPM	RPM 728HXR	115	35.52		22.15	*	7.75	*	6.42		30.65		53.54		55.57	*	0.649		66.17		2884		22344	
Seed Consultants	SC 11VTT79	117	34.63		21.77		7.62		6.68		29.52		52.81		54.66	*	0.655		66.76		2932		22307	
Seed Consultants	EX SCS 9118HR	117	32.89		21.15		7.40		6.63		30.33		52.65		54.05		0.651		67.79	*	3015	*	22298	
Seed Consultants	SC 11VTT86	118	31.61		21.70		7.60		6.30		32.70		55.05		56.00	*	0.639		66.42		2905		22020	
Augusta	A06-10HX	113	34.57		21.41		7.50		7.15	*	29.44		52.25		53.41		0.655		66.69		2926		21913	
Mid-Atlantic	MA5128HXT	111	37.00		21.69		7.59		6.46		28.24		49.84		54.44	*	0.661	*	66.13		2880		21859	
Mid-Atlantic	MA8109RR	110	36.11		21.42		7.50		6.55		28.78		50.72		50.95		0.658		66.57		2917		21854	
Doebler's	771XRR	114	32.86		20.94		7.33		6.98		30.90		53.39		53.47		0.648		67.24		2970		21746	
Seed Consultants	SCS 11HQ38	112	32.84		21.46		7.51		7.09		31.94		55.58		54.25	*	0.642		66.28		2893		21713	
Seed Consultants	SC 11VTT97	119	31.33		20.61		7.21		6.46		31.43		53.66		53.89		0.645		67.69	*	3007	*	21691	
Mid-Atlantic	MA8088VT3	108	35.33		20.98		7.34		6.85		29.16		51.02		52.16		0.657		66.93		2945		21630	
Augusta	A08-13HX	117	32.72		21.10		7.39		5.70		31.73		54.76		53.41		0.643		66.77		2932		21630	
Augusta	A08-01GTCBLL	114	36.79		21.50		7.52		6.91		29.00		51.63		53.03		0.657		65.81		2855		21471	
Augusta	A62-65CBLL	116	33.93		20.47		7.17		6.00		29.41		51.67		55.75	*	0.655		67.52		2994		21407	
Mid-Atlantic	MA8153RR	115	34.58		20.62		7.22		6.30		30.39		52.38		51.79		0.650		67.03		2954		21282	
Mid-Atlantic	MA8150VT3	115	32.69		19.99		7.00		6.40		29.64		51.72		55.07	*	0.654		67.94	*	3028	*	21191	
Augusta	A06-06CBLL	111	34.64		20.14		7.05		6.52		29.16		50.11		51.31		0.657		67.69	*	3007	*	21155	
Augusta	A54-59CBLL	109	40.12	*	21.36		7.48		6.90		27.18		48.86		53.81		0.667	*	64.47		2747		20499	
Augusta	A61-66CBLL	115	36.07		20.19		7.07		6.53		29.07		51.10		53.41		0.657		66.46		2908		20486	
DEKALB	DKC65-63(VT3)	115	37.06		20.28		7.10		6.73		29.33		51.08		51.07		0.656		65.80		2854		20313	
Mid-Atlantic	MA5085	106	36.37		19.68		6.89		6.98		27.89		49.49		53.93		0.663	*	66.97		2949		20285	
T.A. Seeds	TA717-19	114	36.64		19.87		6.96		6.99		27.68		50.09		53.85		0.664	*	66.37		2900		20159	
DEKALB	DKC64-24(VT3)	114	38.02		20.09		7.03		6.58		28.69		50.14		52.65		0.659		65.59		2837		19944	
Augusta	A08-20LL	117	39.87	*	20.91		7.32		6.81		28.81		50.30		52.50		0.658		64.16		2721		19871	
Mid-Atlantic	MA8105VT3	105	36.58		20.39		7.14		6.54		31.08		55.50		53.62		0.647		64.84		2776		19797	
Mycogen Seeds	TMF2H918	123	29.38		19.88		6.96		6.28		34.80	*	59.16	*	54.06		0.628		65.57		2835		19738	
Mid-Atlantic	MA9094	108	32.72		17.94		6.28		7.14	*	27.72		48.76		52.75		0.664	*	68.85	*	3101	*	19440	
Mid-Atlantic	MA8152VT3	115	34.22		18.67		6.54		6.85		30.56		51.98		51.92		0.649		67.27		2973		19417	
Mid-Atlantic	MA5055GTCBLL	103	39.05	*	19.33		6.77		6.69		26.59		47.69		52.10		0.670	*	65.74		2849		19258	
Augusta	A91-69VT3	119	32.71		18.96		6.64		6.66		31.32		56.49	*	55.66	*	0.645		65.85		2858		18911	
DEKALB	DKC69-40(VT3)	119	33.74		17.92		6.27		7.56	*	28.90		51.23		53.93		0.658		67.65	*	3004	*	18822	
DEKALB	DKC65-44(VT3)	115	34.39		18.25		6.39		7.50	*	29.18		52.90		53.19		0.656		66.84		2939		18748	
Mid-Atlantic	MA8029VT3	102	40.97	*	20.08		7.03		6.43		29.48		51.95		52.53		0.655		63.07		2633		18486	
	Site Average		34.89		21.12		7.39		6.69		29.69		51.95		53.34		0.654		66.66		2923		21594	
	LSD (.10)		2.47		2.26		0.79		0.44		1.70		2.72		1.93		0.009		1.29		104		2223	
	CV		6.05		9.13		9.13		5.57		4.88		4.48		3.09		1.138		1.65		3		9	

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

* Indicates numbers not significantly different from the highest value in that column (i.e. within one LSD of the top performer).

Table 9. Two-Year Average Corn Silage Test Results (2008 & 2009) 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	
DEKALB	DKC67-87(RR2/YGCB)	117	46.76	*	20.58	*	7.21	*	6.38		30.22		52.28		52.90		0.607		62.28		2583		18919	*
Mid-Atlantic	MA5158	115	46.75	*	19.19	*	6.72	*	6.92	*	28.07		49.51		55.38	*	0.619	*	64.82	*	2763	*	18849	*
Mid-Atlantic	MA8138VT3	112	42.44		19.66	*	6.88	*	6.69		29.69		52.31		53.03		0.603		63.03		2655		18625	*
Seed Consultants	SC 11VTT86	118	40.52		19.87	*	6.95	*	6.47		32.34	*	54.90	*	55.28	*	0.601		63.12		2647		18487	*
Seed Consultants	SC 11VTT56	114	45.03		19.59	*	6.86	*	6.63		30.03		51.54		53.12		0.609		62.91		2637		18408	*
Doebler's	771XRR	114	43.29		19.35	*	6.77	*	6.86		30.11		52.61		53.98	*	0.608		63.61		2687		18331	*
Augusta	A06-10HX	113	43.45		19.26	*	6.74	*	7.02	*	29.42		52.22		53.79	*	0.609		63.26		2660		18126	*
Augusta	A06-07CBLL	107	47.53	*	18.51		6.48		6.58		27.47		48.46		52.30		0.612	*	63.33		2670		17716	*
T.A. Seeds	TA780-13V	115	44.36		18.34		6.42		6.48		29.65		51.06		53.43		0.605		63.70		2704	*	17704	*
Mid-Atlantic	MA8150VT3	115	43.18		18.04		6.32		6.57		29.10		50.65		54.78	*	0.610		64.08	*	2723	*	17379	
Augusta	A008CBQ	117	42.91		17.80		6.23		6.56		30.07		51.92		54.36	*	0.609		64.22	*	2728	*	17325	
Augusta	A08-13HX	117	44.63		18.57		6.50		5.98		30.58		53.67	*	53.24		0.597		62.65		2619		17275	
Seed Consultants	SC 11VTT48	113	46.11		18.10		6.34		7.17	*	29.71		52.03		52.64		0.605		63.24		2668		17270	
Mid-Atlantic	MA8088VT3	108	48.60	*	17.88		6.26		6.87	*	28.16		50.15		53.31		0.613	*	63.69		2692	*	17125	
DEKALB	DKC64-24(VT3)	114	48.53	*	17.01		5.95		6.80		27.43		48.55		53.38		0.617	*	63.19		2654		15986	
Mid-Atlantic	MA8105VT3	105	44.14		16.94		5.93		6.84		29.90		52.99	*	53.75	*	0.606		62.38		2590		15548	
	Site Average		44.89		18.67		6.53		6.67		29.50		51.55		53.67		0.608		63.34		2667		17692	
	LSD (.10)		2.40		1.67		0.59		0.32		1.25		2.10		1.65		0.008		1.07		73		1493	
	CV		6.44		10.79		10.80		5.68		5.08		4.89		3.71		1.681		2.03		3		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 value in that column (i.e. within one LSD of the top performer).

Table 10. Three-Year Average Corn Silage Test Results (2007, 2008 & 2009) 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	
DEKALB	DKC67-87(RR2/YGCB)	107	44.39	*	18.13	*	6.35	*	6.75		30.60	*	53.89	*	54.26	*	0.620		62.02	*	2578	*	16563	*
Augusta	A06-07CBLL	108	44.17	*	19.63	*	6.87	*	6.51		28.42		50.20		55.77	*	0.632	*	63.39	*	2383	*	16342	*
Augusta	A06-10HX	113	41.16		16.97		5.94		7.59	*	29.71	*	53.75	*	55.25	*	0.623	*	63.21	*	2667	*	15943	*
Mid-Atlantic	MA8088VT3	108	46.19	*	15.74		5.51		7.09		28.98	*	52.31	*	53.51		0.622		62.10	*	2589	*	15216	*
	Site Average		44.02		18.10		6.33		6.87		29.19		51.98		54.98		0.626		62.86		2512		16108	
	LSD (0.10)		2.56		2.36		0.83		0.45		1.76		2.67		2.24		0.009		1.52		295		2451	
	CV		9.14		20.45		20.45		9.68		9.63		7.95		6.31		2.271		3.73		18		24	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
* Indicates numbers not significantly different from the highest value in that column (i.e. within one LSD of the top performer).

Table 11. 2009 Corn Silage Test Results at the Southwestern 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 11VTT79	117	39.63	26.60 *	9.31 *	5.86 *	28.07	47.68	49.40	0.662 *	64.96 *	2786 *	25978 *
Seed Consultants	SCS 11HQ38	112	39.06	27.02 *	9.46 *	5.43 *	31.99	54.05	49.33	0.642 *	63.65 *	2680 *	25195 *
Croplan Genetics	CG 8221 VT3	118	37.59	25.61 *	8.96 *	4.56	32.56	53.87	49.49	0.639 *	64.76 *	2770 *	24805 *
Seed Consultants	SC 11VTT58	114	39.94	27.53 *	9.64 *	5.63 *	34.73 *	58.10 *	48.17	0.628 *	62.29	2570	24669 *
Seed Consultants	SC 11VTT48	113	38.44	25.14 *	8.80 *	5.56 *	30.15	51.16	51.29 *	0.651 *	64.93 *	2783 *	24483 *
DEKALB	DKC67-87(RR2/YGCB)	117	41.25	26.85 *	9.40 *	5.36 *	32.52	54.31	46.59	0.639 *	62.55	2590	24294 *
Augusta	A91-67VT3	117	38.86	25.72 *	9.00 *	5.15	31.44	54.61	51.56 *	0.645 *	63.92 *	2702 *	24250 *
Mycogen Seeds	TMF2L831	118	35.93	25.86 *	9.05 *	5.80 *	36.61 *	60.35 *	47.20	0.619 *	63.65 *	2680 *	24245 *
Seed Consultants	SC 11VTT97	119	36.92	25.59 *	8.96 *	5.01	34.23 *	57.08 *	50.26	0.630 *	63.91 *	2701 *	24200 *
Croplan Genetics	CG 851 VT3	118	40.85	25.96 *	9.09 *	4.43	31.38	52.11	50.89 *	0.645 *	63.13	2638	23848 *
Seed Consultants	SC 11VTT86	118	40.63	26.29 *	9.20 *	4.60	33.15	55.27	49.89	0.636 *	62.39	2577	23726 *
T.A. Seeds	TA780-13V	115	35.94	23.66 *	8.28 *	4.33	32.40	53.73	51.70 *	0.640 *	65.85 *	2858 *	23678 *
Croplan Genetics	CG 7505 VT3	115	43.29	27.12 *	9.49 *	4.94	33.24	55.83	48.26	0.636 *	61.30	2489	23667 *
Seed Consultants	EX SCS 9118HR	117	41.16	26.27 *	9.20 *	4.49	34.26 *	56.67 *	46.81	0.630 *	62.09	2553	23525 *
Mycogen Seeds	TMF2H918	123	34.25	25.02 *	8.76 *	5.98 *	37.94 *	62.57 *	47.90	0.612 *	63.31	2652	23213 *
Seed Consultants	SCS 11HQ39	113	38.63	24.37 *	8.53 *	5.88 *	33.42	56.71 *	49.59	0.635 *	63.21	2644	22629 *
Mid-Atlantic	MA8088VT3	108	44.62	26.12 *	9.14 *	4.78	32.64	55.60	50.76	0.639 *	60.94	2460	22568 *
RPM	RPM 728HXR	115	43.27	25.22 *	8.83 *	4.65	31.03	52.34	47.92	0.647 *	62.08	2553	22559 *
Doebler's	771XRR	114	40.33	25.05 *	8.77 *	5.50 *	34.60 *	59.12 *	49.29	0.628 *	62.04	2549	22330 *
Augusta	A91-69VT3	119	44.27	26.47 *	9.26 *	4.89	34.50 *	59.27 *	49.37	0.629 *	60.03	2386	22117 *
Seed Consultants	EX SCS 9120RR	119	42.43	23.40 *	8.19 *	4.68	31.17	53.78	49.40	0.646 *	62.58	2593	21134
Seed Consultants	SC 11VTT45	114	38.22	21.01	7.35	5.54 *	29.36	48.92	49.78	0.656 *	65.56 *	2834 *	21062
Augusta	A61-66CBLL	115	40.72	23.01 *	8.05 *	4.61	31.30	52.87	49.55	0.645 *	62.78	2609	21006
Augusta	A008CBQ	117	38.51	22.09	7.73	5.49 *	32.90	54.94	52.53 *	0.637 *	63.97 *	2706 *	20925
Augusta	A06-10HX	113	40.61	22.49 *	7.87 *	5.84 *	30.17	51.53	49.43	0.651 *	63.21	2644	20716
Seed Consultants	SC 11VTT56	114	42.10	22.23	7.78	5.09	30.91	51.36	48.67	0.647 *	62.90	2619	20576
Seed Consultants	SCS 11HR69	116	43.05	23.06 *	8.07 *	4.74	31.26	53.29	50.07	0.646 *	61.90	2538	20574
Augusta	A54-59CBLL	109	44.68	23.04 *	8.06 *	5.29	30.94	53.83	52.57 *	0.648 *	61.28	2487	20035
DEKALB	DKC65-63(VT3)	115	41.51	21.35	7.47	5.76 *	29.32	50.48	47.53	0.656 *	63.55	2671	19889
DEKALB	DKC69-40(VT3)	119	41.10	22.07	7.72	5.41 *	34.49 *	57.61 *	49.59	0.629 *	61.85	2534	19581
Mid-Atlantic	MA8105VT3	105	40.75	19.31	6.76	5.95 *	28.74	49.19	50.02	0.659 *	63.96 *	2705 *	18331
Augusta	A08-13HX	117	39.18	20.23	7.08	4.78	35.16 *	59.29 *	46.65	0.626 *	62.03	2549	18088
T.A. Seeds	TA700-15	112	38.23	19.89	6.96	5.49 *	34.97 *	59.38 *	49.50	0.627 *	62.81	2611	18085
DEKALB	DKC64-24(VT3)	114	40.52	19.18	6.71	5.69 *	32.32	53.62	49.78	0.640 *	63.14	2639	17577
Augusta	A08-01GTCBLL	114	43.44	20.12	7.04	5.20	30.90	53.51	51.31 *	0.647 *	61.28	2488	17418
Augusta	A62-65CBLL	116	39.30	18.51	6.48	5.20	32.37	54.48	51.29 *	0.640 *	63.28	2650	17388
Mid-Atlantic	MA5055GTCBLL	103	41.36	19.28	6.75	6.13 *	34.98 *	56.88 *	49.20	0.627 *	62.14	2557	17259
Augusta	A06-07CBLL	107	38.07	18.55	6.49	5.65 *	35.07 *	58.26 *	49.15	0.626 *	63.09	2634	17085
Augusta	A08-20LL	117	38.99	17.29	6.05	5.94 *	33.82 *	57.36 *	53.33 *	0.632 *	63.20	2643	15991
DEKALB	DKC65-44(VT3)	115	42.08	17.94	6.28	5.96 *	33.50 *	55.78	50.35	0.634 *	61.53	2508	15727
Mid-Atlantic	MA5085	106	40.80	17.58	6.15	6.07 *	33.70 *	58.33 *	52.77 *	0.633 *	61.80	2529	15549
T.A. Seeds	TA717-19	114	41.54	17.41	6.10	5.60 *	32.46	56.25 *	50.74	0.639 *	62.25	2566	15418
Augusta	A06-06CBLL	111	44.04	17.95	6.28	5.10	32.24	54.72	50.65	0.641 *	60.88	2455	15381
Mid-Atlantic	MA8029VT3	102	50.24 *	14.95	5.23	4.84	34.38 *	57.28 *	47.58	0.629 *	59.92	2377	12413
Mid-Atlantic	MA9094	108	37.69	10.66	3.73	6.21 *	33.80 *	57.70 *	51.16 *	0.633 *	63.86 *	2696 *	10038
	Site Average		40.50	22.50	7.87	5.30	32.70	55.17	49.71	0.638	62.78	2610	20560
	LSD (0.10)		4.01	5.17	1.81	0.89	4.46	6.33	2.45	0.123	2.20	179	4673
	CV		7.38	17.13	17.13	12.48	10.17	8.56	3.67	2.658	2.62	5	17

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
* Indicates numbers not significantly different from the highest value in that column (i.e. within one LSD of the top performer).

Table 12. Two-Year Average Corn Silage Test Results (2008 & 2009) 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	A06-10HX	113	35.22		24.69	*	8.64	*	7.00	*	27.88		48.97		53.07	*	0.669	*	66.85	*	2941	*	25598	*
Augusta	A008CBQ	117	34.42		25.82	*	9.04	*	6.26		32.41	*	54.27	*	53.91	*	0.635		64.81		2784		25100	*
Mid-Atlantic	MA8088VT3	108	38.51	*	25.76	*	9.01	*	6.12		29.54		50.93		51.73		0.654	*	64.47		2765		24957	*
Mid-Atlantic	MA8105VT3	105	36.71	*	23.55	*	8.24	*	6.43		28.06		48.79		52.64	*	0.664	*	66.31	*	2900	*	24223	*
DEKALB	DKC67-87(RR2/YGCB)	117	36.54	*	25.28	*	8.85	*	6.33		32.32	*	54.55	*	50.73		0.641		64.33		2743		24206	*
Seed Consultants	SC 11VTT86	118	34.66		24.69	*	8.64	*	5.69		32.69	*	55.04	*	53.49	*	0.644		65.12		2791		23981	*
Seed Consultants	SC 11VTT48	113	34.43		23.48	*	8.22	*	6.34		29.52		50.49		52.83	*	0.658	*	66.32	*	2902	*	23727	*
Seed Consultants	SC 11VTT56	114	34.78		22.50	*	7.87	*	6.48		30.60	*	51.74		53.09	*	0.657	*	66.18	*	2891	*	22876	*
T.A. Seeds	TA780-13V	115	31.89		21.80		7.63		6.11		30.92	*	51.89		53.03	*	0.654	*	67.03	*	2967	*	22587	*
Doebler's	771XRR	114	34.82		22.93	*	8.03	*	6.53	*	32.24	*	55.57	*	53.07	*	0.645		65.26		2812		22424	*
Augusta	A08-13HX	117	33.99		22.85	*	8.00	*	5.89		33.22	*	56.31	*	48.80		0.634		63.53		2707		21787	
DEKALB	DKC64-24(VT3)	114	34.39		19.96		6.99		6.72	*	29.70		50.06		52.18		0.663	*	66.59	*	2931	*	20524	
Augusta	A06-07CBLL	107	35.27		19.54		6.84		6.39		31.44	*	53.64	*	52.18		0.646		65.59	*	2842		19476	
	Site Average		35.11		23.32		8.16		6.32		30.84		52.53		52.31		0.651		65.52		2840		23188	
	LSD (.10)		2.91		3.73		1.31		0.47		2.90		4.11		1.35		0.018		1.51		117		3724	
	CV		9.51		18.36		18.36		8.51		10.79		8.96		2.97		3.162		2.65		5		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 value in that column (i.e. within one LSD of the top performer).

Table 13. Three-Year Average Corn Silage Test Results (2007, 2008 & 2009) 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	MA8088VT3	108	40.35	*	25.76	*	9.02	*	6.29		28.77		50.21		53.17		0.658	*	63.21		2239		21690	*
Augusta	A06-10HX	113	39.31	*	24.48	*	8.57	*	6.89	*	26.50		47.17		54.81	*	0.674	*	65.46	*	2382		20726	*
DEKALB	DKC67-87(RR2/YGCB)	107	37.86	*	24.61	*	8.61	*	6.24		33.04	*	55.48	*	51.78		0.638		62.99		2295		20152	*
Augusta	A06-07CBLL	107	35.27		19.54		6.84		6.39		31.44	*	53.64	*	52.18		0.646		65.59	*	2842	*	19476	*
	Site Average		38.45		23.86		8.35		6.45		29.83		51.48		53.03		0.654		64.22		2414		20565	
	LSD (0.10)		4.39		3.56		1.25		0.39		3.27		4.64		1.31		0.018		1.17		102		3286	
	CV		14.65		18.95		18.96		7.61		13.89		11.42		3.13		3.417		2.30		5		20	

[1]Days to maturity provided by company; differences in maturity rating methods may exist between companies.
* Indicates numbers not significantly different from the highest value in that column (i.e. within one LSD of the top performer).

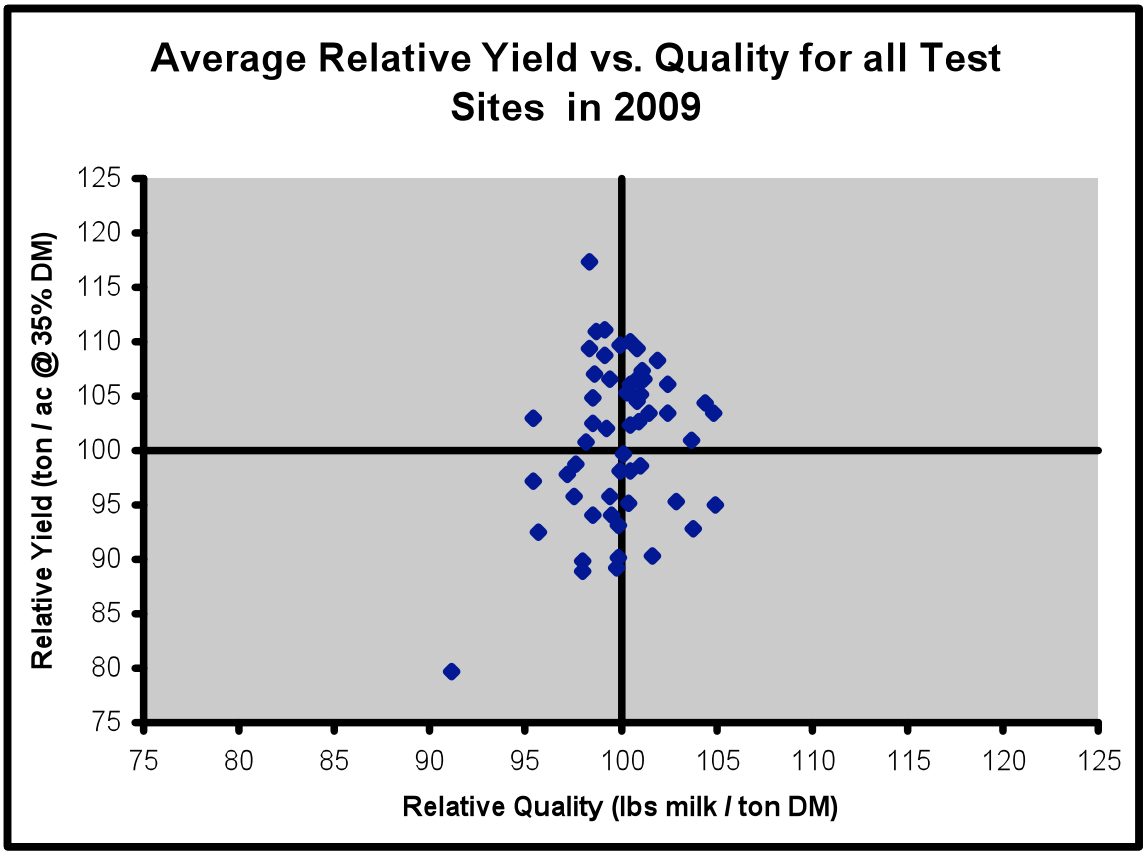
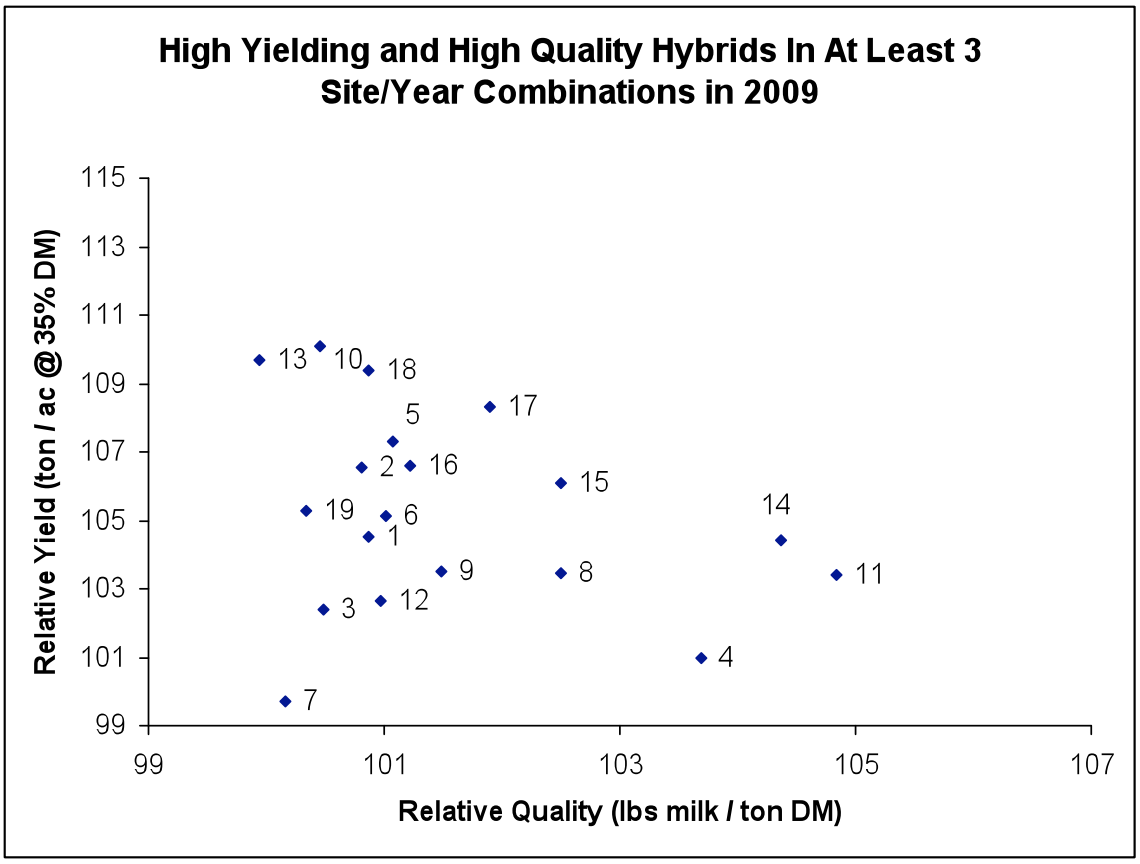


Figure 1. Average relative yield versus quality across all test sites in 2009



Point ID	Brand	Hybrid
1	Augusta	A008CBQ
2	Augusta	A06-10HX
3	Augusta	A91-67VT3
4	Croplan Genetics	CG 8221 VT3
5	Croplan Genetics	CG 851 VT3
6	DEKALB	DKC65-63(VT3)
7	Doebler's	771XRR
8	Mid-Atlantic	MA5158
9	Mid-Atlantic	MA8109RR
10	Mid-Atlantic	MA8138VT3
11	Mid-Atlantic	MA8150VT3
12	Mid-Atlantic	MA8153RR
13	Mycogen Seeds	TMF2L831
14	Seed Consultants	SC 11VTT45
15	Seed Consultants	SC 11VTT79
16	Seed Consultants	SCS 11HQ38
17	Seed Consultants	SCS 11HQ39
18	Seed Consultants	SCS 11HQ80
19	Seed Consultants	SCS 12HQ00

Figure 2. High yielding and high quality hybrids that appeared in at least 3 site/year combinations in 2009