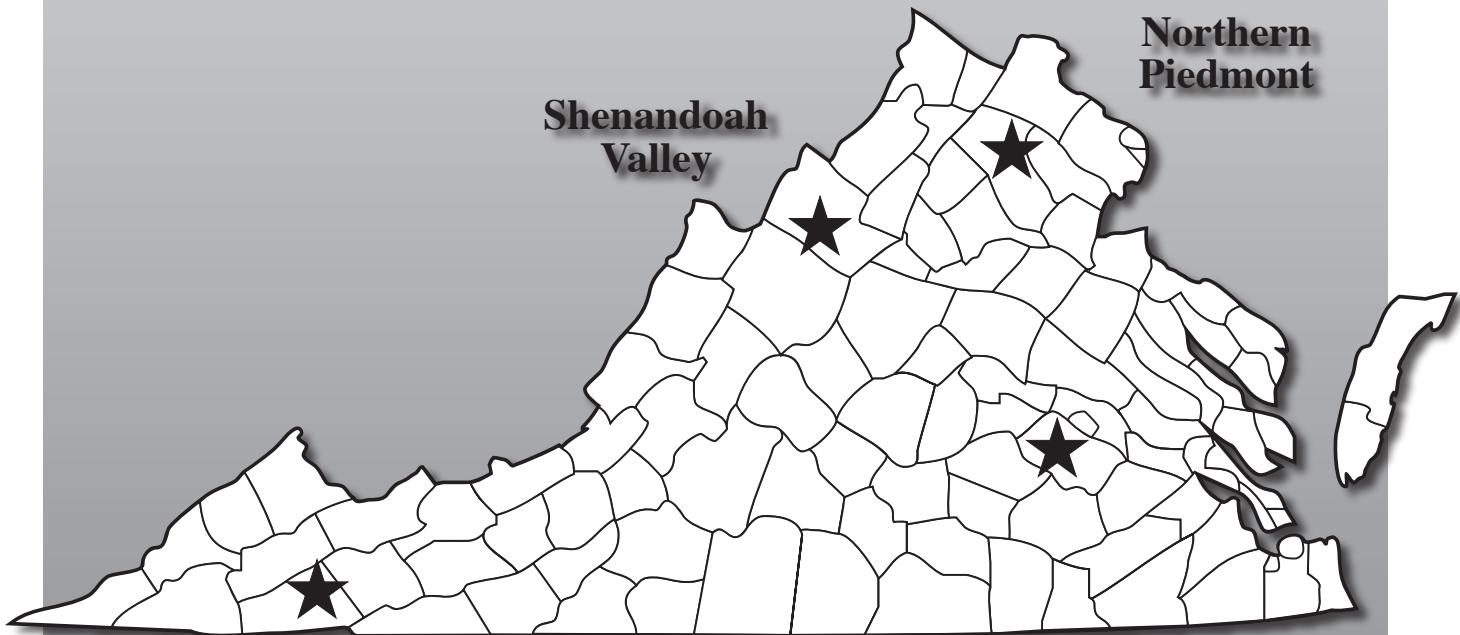


# Virginia Corn Silage Testing Program 2004



VIRGINIA POLYTECHNIC INSTITUTE  
AND STATE UNIVERSITY

2004

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VT/1204 qp/424037

# **THE 2004 VIRGINIA CORN SILAGE HYBRID TRIALS**

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## **THE 2004 VIRGINIA CORN SILAGE HYBRID TRIALS**

Coordinated by H. Behl, W. Thomason and E.G. Rucker

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Virginia Tech, Blacksburg, VA

Other contributors include: the Glenn Heatwole family; O.B. Messick & Sons, Inc.;

The David Johnson family; the staff at the Southern Piedmont AREC; T. Stanley; P. Blevins; K. Dickinson

### **COMPANIES PARTICIPATING IN THE 2004 CORN SILAGE TRIALS**

<b>Company</b>	<b>Brand</b>	<b>Address</b>
AUGUSTA SEED CORP.	AUGUSTA	106 FAIRBURN RD MT SOLON, VA 22843
BALDRIDGE HYBRIDS	BALDRIDGE HYBRIDS	PO BOX 99 CHERRY FORK, OH 45618
CHEMGRO SEEDS	CHEMGRO	PO BOX 218 EAST PETERSBURG, PA 17520
DOEBLERS INC.	DOEBLERS	202 TIADAGHTON AVE JERSEY SHORE, PA 17740
GARST SEED CO.	GARST	4850 W 350 N DANVILLE, IN 46122-8881
HUBNER SEED CO.	HUBNER	10280 W STATE RD 28 WEST LEBANON, IN 47991
HYTEST SEEDS	HYTEST	1404 COLORADO ST SUITE 124 BOULDER CITY, NV 89005
MID-ATLANTIC SEEDS	MID-ATLANTIC	204 ST CHARLES WAY YORK, PA 17403
MONSANTO	DEKALB & ASGROW	800 N LINDBERGH BLVD ST LOUIS, MO 63167
MYCOGEN SEEDS	MYCOGEN SEEDS	6429 OLD WILLIAM PENN HWY EXPORT, PA 15632
PIONEER, A DUPONT CO.	PIONEER	6767 OLD MADISON PIKE SUITE 110 HUNTSVILLE, AL 35806
ROYSTER-CLARK, INC	VIGORO SEEDS	717 ROBINSON ROAD SE WASHINGTON C.H., OH 43160
SEED CONSULTANTS, INC.	SEED CONSULTANTS	PO BOX 370 WASHINGTON COURTHOUSE, OH 43160
SOUTHERN STATES COOP., INC.	SOUTHERN STATES	6606 WEST BROAD ST RICHMOND, VA 23260
SYNGENTA SEEDS, INC.	NK BRAND	1993 WESLEY LANE GREENVILLE, NC 27858
T.A. SEEDS	T.A. SEEDS	PO BOX 300 AVIS, PA 17721

### **NARRATIVE**

This report contains the results for performance trials from commercial corn hybrids produced for silage at four locations in Virginia in 2004 as well as two 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 small-scale 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 which may have been 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 2004, 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.*

Milk2000 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.

Milk2000 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.

Milk2000 was designed solely as an index to be used when making quality comparisons between silage samples or hybrids. Milk2000's 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. For example, consider the results of VA Tech's annual test of corn hybrid tolerance to gray leaf spot disease.

## **2004 VIRGINIA CORN SILAGE PLOT INFORMATION** **(Rates are on a per acre basis.)**

### **Southern Piedmont at Southern Piedmont Agricultural Research & Extension Center at Blackstone**

**Planted:** April 22, 2004  
**Harvested:** September 17, 2004  
**Pesticide:** 4.5 lb Force 3G® at planting; 1.5 pt Dual II Magnum® April 23, 2004; 7 oz Callisto® April 26, 2004.  
**Fertilizer:** 100-100-100 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 80 lb N May 25, 2004.  
**Plot Size:** 2 rows 25' x 30" 4 replications  
**Soil Type:** Wedowee  
**Cooperators:** Ned Jones

### **Southwest/Mountain at Washington County (Thanks to David Johnson and Highland Dairy)**

**Planted:** May 7, 2004  
**Harvested:** September 4, 2004  
**Pesticide:** 3 pt Gramoxone® + 3 qt Lumax® + 1 qt atrazine April 26, 2004; 4.5 lb Force 3G® at planting.  
**Fertilizer:** 160-50-150 preplant; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 40 units N sidedressed.  
**Plot Size:** 2 rows 35' x 30" 4 replications  
**Soil Type:** Monongahela  
**Cooperators:** Phil Blevins and David Johnson

### **Shenandoah Valley at Rockingham County (Thanks to Glenn Heatwole & Family and Golden Valley Farm)**

**Planted:** April 29, 2004  
**Harvested:** August 16, 2004  
**Pesticide:** 5 pt Lumax® preplant incorporated + 4.5 lb Force 3G® at planting  
**Fertilizer:** 3 tons lime + 65-0-0-10 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 75 units N sidedressed.  
**Plot Size:** 2 rows 35' x 30" 4 replications  
**Soil Type:** Monongahela fine sandy loam  
**Cooperators:** Tom Stanley and Glenn Heatwole

### **Northern Piedmont at Fauquier County (Thanks to O. B. Messick and Sons, Inc.)**

**Planted:** April 29, 2004  
**Harvested:** October 5, 2004  
**Pesticide:** 5 pt Lumax® preplant incorporated + 4.5 lb Force 3G® at planting  
**Fertilizer:** 3 tons lime + 65-0-0-10 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 75 units N sidedressed.  
**Plot Size:** 2 rows 35' x 30" 4 replications  
**Soil Type:** Monongahela fine sandy loam  
**Cooperators:** Keith Dickinson and the Messick Family

Table 1. List of Hybrids in 2004 VA Tech Corn Silage Hybrid Test

Brand	Hybrid	DTM per Company	<sup>†</sup>	Obs	Tables in Document Relevant to Hybrid
ASGROW §	702YG	110		4	2,3,4,5,7,9,11
ASGROW	RX774	113		4	2,3,4
AUGUSTA	2056	116		2	2,3,4
AUGUSTA	2062	116		1	2,3,4
AUGUSTA	3556	117		1	2,3,4
AUGUSTA	3562	117		2	2,3,4,9,10
AUGUSTA	3762	120		1	2,3,4
AUGUSTA	4487	110		1	2,3,4
AUGUSTA	5635	118		1	2,3,4
AUGUSTA	9561	119		4	2,3,4,5,7,9,11
AUGUSTA	A311256	117		1	2,3,4,5
AUGUSTA	T-03-21CB	120		1	2,3,4
AUGUSTA	T-5965RR	118		1	2,3,4
BALDRIDGE	BH 710	125		2	2,3,4,5
BALDRIDGE	BH-567	115		1	2,3,4
BALDRIDGE	BH-611A	110		1	2,3,4
BALDRIDGE	BH-705	123		1	2,3,4
BIOGENE	1130	113		1	2,3,4
BIOGENE	1152	115		1	2,3,4
CHEMGRO	7227	112		1	2,3,4
CHEMGRO	7511Bt	115		1	2,3,4,5
CHEMGRO	7740Bt	117		2	2,3,4,5,6
DEKALB	DKC62-15	112		3	2,3,4
DEKALB	DKC63-80(RR2)	113		4	2,3,4,5,7,9,11
DEKALB	DKC63-81(RR2/YGCB)	113		4	2,3,4,5,7,9,11
DEKALB	DKC64-11(RR2/YGCB)	114		7	2,3,4,5,6,7,8,9,10,11
DEKALB	DKC66-50	116		3	2,3,4
DEKALB	DKC69-71(RR2/YGCB)	119		4	2,3,4,5,7,9,11
DOEBLERS	648RYG	111		2	2,3,4,5,7
DOEBLERS	649XY	111		2	2,3,4
DOEBLERS	760DT	115		7	2,3,4,5,6,7,8,9,10,11
DOEBLERS	877VRR	123		2	2,3,4,9,10,11
DOEBLERS	S707Q	115		7	2,3,4,5,6,7,8,9,10,11
GARST	7850	115		2	2,3,4
GARST	8288	118		2	2,3,4
GARST	8348	115		2	2,3,4
GARST	8200YG1	118		2	2,3,4,5,11
GARST	8292YG1	118		2	2,3,4,5,11
GARST	8376YG1	115		2	2,3,4,5,11
GARST	8450IT	111		2	2,3,4
HUBNER	H3692	115		4	2,3,4,5,7,9,11
HYTEST	HT7790Bt/RR	116		1	2,3,4,5
HYTEST	HT7799Bt	117		2	2,3,4,7
HYTEST	HT7887RR	118		1	2,3,4
HYTEST	HT7930Bt	119		1	2,3,4
HYTEST	TNT-119	119		1	2,3,4
MID-ATLANTIC	MA7130YG	113		7	2,3,4,5,6,7,8,9,10,11
MID-ATLANTIC	MA7150Bt/RR-MPA	115		4	2,3,4,5,7,9,11
MID-ATLANTIC	MA7150YG-MPA	115		4	2,3,4,5,7,9,11
MID-ATLANTIC	MA8200ARR	119		3	2,3,4
MID-ATLANTIC	MA9137CRW	113		3	2,3,4
MID-ATLANTIC	MA9140YG	114		7	2,3,4,5,6,7,8,9,10,11
MID-ATLANTIC	MA9185RR	118		7	2,3,4,5,6,7,8,9,10,11
MID-ATLANTIC	MA9189	118		4	2,3,4,5,7,9,11

(continued on next page)

Table 1. List of Hybrids in 2004 VA Tech Corn Silage Hybrid Test

Brand	Hybrid	DTM per Company <sup>†</sup>	Obs	Tables in Document Relevant to Hybrid
MID-ATLANTIC	MA9200	120	7	2,3,4,5,6,7,8,9,10,11
MYCOGEN	7512	112	2	2,1,3,5,6
MYCOGEN	8681FQ	118	1	2,3,4
NK	N82-A7	110	4	2,3,4,5,6,7,8,9,11
NK	N82-J6	108	6	2,3,4,5,6,7,8,9,11
NK	N91-R9	116	6	2,3,4,5,6,7,8,9,11
PIONEER BRAND	31G66	114	7	2,3,4,5,6,7,8,9,10,11
PIONEER BRAND	31G98	119	7	2,3,4,5,6,7,8,9,10,11
PIONEER BRAND	31R88	117	7	2,3,4,5,6,7,8,9,10,11
PIONEER BRAND	33J57	116	7	2,3,4,5,6,7,8,9,10,11
PIONEER BRAND	33V15	115	7	2,3,4,5,6,7,8,9,10,11
PIONEER BRAND	34B24	111	3	2,3,4,5,7,11
SEED CONSULTANTS	SC1195	119	2	2,3,4,5,7
SEED CONSULTANTS	SC11B45	114	2	2,3,4,5,7
SEED CONSULTANTS	SC1224	122	2	2,3,4,5,7
SEED CONSULTANTS	X119B	119	2	2,3,4,5,7
SEED CONSULTANTS	X124B	124	3	2,3,4,5,7,9
SOUTHERN STATES	842RR	118	6	2,3,4,5,6,7,8,9,11
SOUTHERN STATES	900Bt	119	6	2,3,4,5,6,7,8,9,11
T.A. SEEDS	EX10110	117	2	2,3,4
T.A. SEEDS	TA 6880F	113	1	2,3,4,11
T.A. SEEDS	TA 7911	119	1	2,3,4,11
T.A. SEEDS	TA 8002	120	1	2,3,4,11
TRISLER BY AUGUSTA	T2057RR	118	1	2,3,4,5
TRISLER BY AUGUSTA	T312256Bt	118	4	2,3,4,5,7,9,11
TRISLER BY AUGUSTA	T3258CB	118	4	2,3,4,5,7,9,11
TRISLER BY AUGUSTA	T5337RRCB	115	4	2,3,4,5,7,9,11
TRISLER BY AUGUSTA	T5338CB	115	1	2,3,4,9
VATECH	BMR101	115	7	2,3,4,5,6,7,8,9,10,11
VIGORO	V5240	111	2	2,3,4,5,11
VIGORO	V54R66	114	1	2,3,4
VIGORO	V58Y41	117	6	2,3,4,5,6,7,8,9,10,11
VIGORO	V61R36	120	1	2,3,4
ZIMMERMAN	1822W	118	1	2,3,4
ZIMMERMAN	1851W	118	1	2,3,4
ZIMMERMAN	WX7663	118	1	2,3,4

†Days to Maturity (DTM) provided by company; differences in maturity rating methods may exist between companies.

§Shading indicates hybrids with entries in three or more site/years.

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

Brand	Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern Piedmont				Northern Piedmont <sup>‡</sup>				Southwest / Mountain				Shenandoah Valley				Multi-site Average		Number of Obs.	Relative Predictive Value <sup>§§</sup>	
				2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003			
Relative Ton per Acre																								
SOUTHERN STATES	900Bt			119	99	-	126 *	-	140 *	107 *	109 *	118 *	117	6										
PIONEER BRAND	31G98			119	108 *	112 *	89	-	129 *	109 *	107 *	108	109	7										
MID-ATLANTIC	MA8200ARR			119	-	106 *	-	-	-	113 *	-	107	109	3										
NK	N91-R9			116	119 *	-	98	-	120 *	99	105 *	102	107	6										
PIONEER BRAND	33J57			116	109 *	100 *	110	-	115	100	102	113	107	7										
DEKALB	DKC69-71(RR2/YGCB)			119	113 *	-	88	-	124 *	-	101	-	106	4										
PIONEER BRAND	31G66			114	101	102 *	94	-	112 *	112 *	111 *	110	106	7										
TRISLER BY AUGUSTA	T312256Bt			118	106	-	108	-	108	-	99	-	105	4										
MID-ATLANTIC	MA7150YG-MPA			115	118 *	-	111 *	-	86	-	103	-	105	4										
PIONEER BRAND	31R88			117	93	95	94	-	120 *	109 *	107 *	108	104	7										
MID-ATLANTIC	MA7150Bt/RR-MPA			115	119 *	-	108	-	81	-	103	-	103	4										
SOUTHERN STATES	842RR			118	90	-	98	-	116	109 *	101	102	103	6										
DEKALB	DKC62-15			112	-	96	-	-	-	106 *	-	105	102	3										
TRISLER BY AUGUSTA	T3258CB			118	92	-	108	-	108	-	100	-	102	4										
MID-ATLANTIC	T5337RRRCB			115	104	-	102	-	96	-	103	-	101	4										
MA7130YG	MA7130YG			113	112 *	108 *	102	-	62	106 *	102	116 *	101	7										
MA9189	MA9189			118	107	-	102	-	81	-	114 *	-	101	4										
MA9140YG	MA9140YG			114	92	112 *	102	-	85	88	105 *	123 *	101	7										
S707Q	S707Q			115	102	101 *	93	-	115	99	103	93	101	7										
34B24	34B24			111	-	-	93	-	111	-	98	-	101	3										
DKC63-80(RR2)	DKC63-80(RR2)			113	96	-	110	-	104	-	92	-	100	4										
MA9200	MA9200			120	96	101 *	96	-	115	108 *	86	96	100	7										
33V15	33V15			93	92	100 *	98	-	94	104 *	110 *	97	99	7										
DEKALB	DKC63-81(RR2/YGCB)			113	95	-	99	-	107	-	95	-	99	4										
MA9185RR	MA9185RR			118	103	96	93	-	90	105 *	99	103	98	4										
9561	9561			119	89	-	107	-	99	-	98	-	98	4										
X124B	X124B			124	95	-	-	-	92	-	107 *	-	98	3										
RX774	RX774			113	93	113	-	-	-	88	-	97	98	4										
DEKALB	DKC64-11(RR2/YGCB)			114	92	106 *	101	-	83	98	95	107	97	7										
H3692	H3692			115	89	-	89	-	114	-	96	-	97	4										
N82-A7	N82-A7			110	103	-	97	-	74	103 *	100	105	97	6										
DEKALB	DKC66-50			116	-	97 *	-	-	-	97	-	96	97	3										
MID-ATLANTIC	MA9137CRW			113	-	96	-	-	-	92	-	96	95	3										
V58Y41	V58Y41			117	96	103 *	100	-	60	-	103	103	94	6										
NK	N82-J6			108	93	-	96	-	56	106 *	97	115 *	94	6										
ASGROW	702YG			110	82	-	93	-	96	-	96	-	92	4										
DOEBLERS	760DT			115	90	89	80	-	80	90	91	105	89	7										
VATECH	BMR101			115	85	97 *	78	-	86	84	90	94	88	7										

(continued on next page)

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

Brand	Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern Piedmont				Northern Piedmont <sup>‡</sup>				Southwest / Mountain				Shenandoah Valley				Multi-site Average				Number of Obs.	Relative Predictive Value <sup>§§</sup>
				2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003		
SEED CONSULTANTS	SEED CONSULTANTS	SC1195	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118	2
BALDRIDGE	BALDRIDGE	BH 710	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	2
T.A. SEEDS	T.A. SEEDS	TA 8002	120	-	-	113 *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113	1
TRISLER BY AUGUSTA	SEED CONSULTANTS	T5338CB	115	112 *	-	-	-	-	-	-	122 *	-	-	-	-	-	-	-	-	-	-	-	-	112	1
AUGUSTA	AUGUSTA	X119B	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	2
TRISLER BY AUGUSTA	AUGUSTA	T-03-21CB	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	1
AUGUSTA	AUGUSTA	T2057RR	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	2
AUGUSTA	AUGUSTA	2056	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	2
AUGUSTA	AUGUSTA	3562	117	110 *	102 *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	2
T.A. SEEDS	T.A. SEEDS	EX10110	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	2
HYTEST	HYTEST	HT7930Bt	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105	1
AUGUSTA	AUGUSTA	5635	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103	1
GARST	GARST	8200YG1	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103	2
CHEMGRO	CHEMGRO	7740Bt	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	2
HYTEST	HYTEST	TNT-119	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	1
ZIMMERMAN	ZIMMERMAN	1822W	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	1
AUGUSTA	AUGUSTA	A311256	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	1
MYCOGEN	MYCOGEN	7512	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	2
GARST	GARST	8288	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	2
HYTEST	HYTEST	HT7790Bt/RR	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	1
DOEBLERS	DOEBLERS	877VRR	123	98	104 *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	1
CHEMGRO	CHEMGRO	7511Bt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101	2
BIOGENE	BIOGENE	1130	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	1
SEED CONSULTANTS	SEED CONSULTANTS	SC1224	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	1
VIGORO	VIGORO	V5240	111	-	-	-	-	-	-	-	96	-	-	-	-	-	-	-	-	-	-	-	-	98	2
DOEBLERS	DOEBLERS	648RYG	111	-	-	-	-	-	-	-	95	-	-	-	-	-	-	-	-	-	-	-	-	97	2
VIGORO	VIGORO	V61R36	120	97 *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	1
BALDRIDGE	BALDRIDGE	BH-567	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	1
HYTEST	HYTEST	HT7887RR	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	1
VIGORO	VIGORO	V54R66	114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	1
GARST	GARST	8348	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	2
DOEBLERS	DOEBLERS	649XY	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	2
AUGUSTA	AUGUSTA	T-5965RR	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95	1
CHEMGRO	CHEMGRO	7227	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95	1
GARST	GARST	8450iT	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94	2
HYTEST	HYTEST	HT7799Bt	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	2
AUGUSTA	AUGUSTA	2062	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92	1

Relative  
Predictive  
Value <sup>§§</sup>  
*(continued on next page)*

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

Brand	Hybrid	DTM per Co. <sup>†</sup>	Relative Ton per Acre						Number of Obs.	Relative Predictive Value <sup>§§</sup>
			2004	2003	2004	2003	2004	2003		
(continued on next page)										
AUGUSTA	4487	110	-	-	-	-	-	-	92	92
GARST	8292YG1	118	-	93	-	-	-	89	-	91
ZIMMERMAN	1851W	118	-	-	-	-	-	-	91	91
T.A. SEEDS	TA 6880F	113	-	90	-	-	-	-	90	1
MYCOGEN	8681FQ	118	-	-	-	-	-	-	90	1
AUGUSTA	3762	120	-	89	-	-	-	-	-	89
AUGUSTA	3556	117	-	-	-	-	88	-	-	88
T.A. SEEDS	TA 7911	119	-	87	-	-	-	-	-	87
GARST	7850	115	-	-	-	-	87	-	87	2
GARST	8378YG1	115	-	92	-	-	78	-	85	2
BIOGENE	1152	115	-	-	-	-	-	-	84	1
SEED CONSULTANTS	SC11B45	114	-	-	-	63	-	103	-	83
ZIMMERMAN	WX7663	118	-	-	-	-	-	-	81	1
BALDRIDGE	BH-705	123	-	-	-	-	-	-	74	1
BALDRIDGE	BH-611A	110	-	-	-	-	-	-	66	1

<sup>†</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.<sup>‡</sup> No hybrids were planted at Northern Piedmont in 2003 due to repeated wet weather delays.<sup>§</sup> Relative Ton per Acre (Yield) calculated by dividing Ton per Acre for each hybrid at each site/year by the average Ton per Acre for that site/year. Numbers over 100 indicate above-average yield, 100 indicates average yield, numbers under 100 indicate below-average yield.<sup>||</sup> Hybrids that were tested over more site/year combinations provide a better estimate of hybrid performance than those tested only in a single year/site location.<sup>\*</sup> Indicates hybrids that were not significantly different from the highest Ton per Acre (Yield) value at their particular site/year. Shading indicates hybrids within one LSD of the top performer for that site/year which appeared at three or more site/years.

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

Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern Piedmont			Northern Piedmont <sup>‡</sup>			Southwest / Mountain			Shenandoah Valley			Multi-site Average	Number of Obs.	Relative Predictive Value <sup>§§</sup>
			2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003			
Relative Milk per Ton																	
VATECH	BMR101	115	124 *	113 *	114 *	-	116 *	108 *	115 *	98	112	7					
VIGORO	V58Y41	117	100	103	107	-	108 *	-	106	105 *	106	6					
TRISLER BY AUGUSTA	T3288CB	118	107	-	105	-	105	-	103	-	105	4					
MID-ATLANTIC	MA7130YG	113	102	105 *	106	-	105	103 *	103	105 *	104	7					
MID-ATLANTIC	MA7150BU/RR-MPA	115	98	-	109 *	-	106	-	103	-	104	4					
MID-ATLANTIC	MA9137CRW	113	-	105 *	-	-	-	100 *	-	107 *	104	3					
DEKALB	DKC62-15	112	-	104	-	-	-	104 *	-	104 *	104	3					
MID-ATLANTIC	MA7150YG-MPA	115	104	-	103	-	103	-	105	-	104	4					
PIONEER BRAND	33J57	116	103	100	108	-	104	103 *	103	102	106 *	104	7				
TRISLER BY AUGUSTA	T5337RRCB	115	105	-	104	-	102	-	101	-	103	-	4				
PIONEER BRAND	34B24	111	-	103	-	103	-	104	-	104	-	103	3				
TRISLER BY AUGUSTA	T312256Bt	118	106	-	105	-	98	-	100	-	102	4					
NK	N82-J6	108	105	-	100	-	94	106 *	104	103 *	102	6					
DEKALB	DKC64-11(RR2/YGCB)	114	103	101	105	-	102	102 *	98	100	102	7					
MID-ATLANTIC	MA8200ARR	119	-	103	-	-	-	100 *	-	101	101	3					
DOEBLERS	760DT	115	105	99	98	-	103	95	103	105 *	101	7					
SEED CONSULTANTS	X124B	124	105	-	-	-	98	-	99	-	101	3					
ASGROW	RX774	113	-	98	-	-	-	99	-	105 *	101	3					
PIONEER BRAND	33V15	115	97	102	98	-	99	101 *	102	-	105 *	101	7				
AUGUSTA	9561	119	97	-	101	-	102	-	102	-	-	101	4				
DOEBLERS	877VRR	123	95	103	104	-	-	-	-	-	-	101	3				
DEKALB	DKC66-50	116	-	97	-	-	-	100 *	-	-	104 *	100	4				
MID-ATLANTIC	MA9189	118	100	-	101	-	101	-	99	-	-	100	4				
PIONEER BRAND	31R88	117	97	95	100	-	100	101 *	106	102 *	100	7					
PIONEER BRAND	31G66	114	104	102	90	-	100	102 *	101	102 *	100	7					
DEKALB	DKC63-8(1(RR2/YGCB))	113	101	-	97	-	100	-	100	-	-	100	4				
HUBNER	H3692	115	101	-	98	-	100	-	99	-	-	100	4				
SOUTHERN STATES	842RR	118	101	-	102	-	102	-	94	98	98	6					
MID-ATLANTIC	MA9200	120	97	99	100	-	99	106 *	97	96	99	7					
NK	N82-A7	110	90	-	95	-	105	104 *	98	99	99	6					
SOUTHERN STATES	900Bt	119	95	-	98	-	102	102 *	93	99	98	6					
ASGROW	702YG	110	99	-	96	-	98	-	99	-	-	98	4				
MID-ATLANTIC	MA9185RR	118	94	99	95	-	99	99	100	97	98	7					
DEKALB	DKC63-80(RR2)	113	104	-	95	-	95	-	94	-	-	97	4				
DOEBLERS	S707Q	115	92	93	-	94	102 *	96	100	96	96	7					
PIONEER BRAND	31G98	119	103	92	99	-	94	95	92	94	96	7					
MID-ATLANTIC	MA9140YG	114	89	95	98	-	99	90	92	102 *	95	7					
DEKALB	DKC69-7(1(RR2/YGCB))	119	94	-	97	-	95	-	93	-	-	95	4				
NK	N91-R9	116	99	-	90	-	97	80	94	82	90	6					

(continued on next page)

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

Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern Piedmont			Northern Piedmont <sup>‡</sup>			Southwest / Mountain			Shenandoah Valley			Number of Obs.	Relative Predictive Value <sup>§§</sup>
			2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003		
Relative Milk per Ton																
TRISLER BY AUGUSTA	T5338CB	115	106	-	-	-	-	-	-	-	-	-	-	-	-	106
BALDRIDGE	BH-567	115	-	-	-	-	-	-	-	-	-	-	-	-	-	105
CHEMGRO	7740Bt	117	-	-	-	-	-	-	-	-	-	-	-	-	-	105
GARST	8292YG1	118	-	103	-	-	-	-	-	-	-	-	-	-	-	104
SEED CONSULTANTS	SC11B45	114	-	-	-	-	-	104	-	-	-	-	-	-	-	104
BIOGENE	1152	115	-	-	-	-	-	-	-	-	-	-	-	-	-	104
CHEMGRO	7227	112	-	-	-	-	-	-	-	-	-	-	-	-	-	104
MYCOGEN	7512	112	-	-	-	-	-	-	-	-	-	-	-	-	-	104
GARST	8200YG1	118	-	-	-	-	-	-	-	-	-	-	-	-	-	104
T.A. SEEDS	EX10110	117	-	-	-	-	-	-	-	-	-	-	-	-	-	103
AUGUSTA	4487	110	-	-	-	-	-	-	-	-	-	-	-	-	-	103
DOEBLERS	649XY	111	-	-	-	-	-	-	-	-	-	-	-	-	-	103
HYTEST	HT7799Bt	117	-	-	-	-	-	-	-	-	-	-	-	-	-	103
AUGUSTA	2056	116	-	-	-	-	-	-	-	-	-	-	-	-	-	103
GARST	8288	118	-	-	-	-	-	-	-	-	-	-	-	-	-	102
AUGUSTA	2062	116	-	-	-	-	-	-	-	-	-	-	-	-	-	102
GARST	84501T	111	-	-	-	-	-	-	-	-	-	-	-	-	-	102
AUGUSTA	A311256	117	-	-	-	-	-	-	-	-	-	-	-	-	-	102
VIGORO	V54R66	114	-	-	-	-	-	-	-	-	-	-	-	-	-	102
T.A. SEEDS	TA 7911	119	-	-	-	-	-	-	-	-	-	-	-	-	-	101
GARST	8348	115	-	-	-	-	-	-	-	-	-	-	-	-	-	101
GARST	8376YG1	115	-	-	-	-	-	-	-	-	-	-	-	-	-	101
BIOGENE	1130	113	-	-	-	-	-	-	-	-	-	-	-	-	-	101
CHEMGRO	7511Bt	115	-	-	-	-	-	-	-	-	-	-	-	-	-	100
HYTEST	HT7790Bt/RR	116	-	-	-	-	-	-	-	-	-	-	-	-	-	100
HYTEST	HT7887RR	118	-	-	-	-	-	-	-	-	-	-	-	-	-	100
HYTEST	TNT-119	119	-	-	-	-	-	-	-	-	-	-	-	-	-	100
MYCOGEN	8681FQ	118	-	-	-	-	-	-	-	-	-	-	-	-	-	100
AUGUSTA	3562	117	101	-	-	-	-	-	-	-	-	-	-	-	-	100
GARST	7850	115	-	-	-	-	-	-	-	-	-	-	-	-	-	100
SEED CONSULTANTS	X119B	119	-	-	-	-	-	-	-	-	-	-	-	-	-	100
AUGUSTA	T-03-21C	120	-	-	-	-	-	-	-	-	-	-	-	-	-	99
BALDRIDGE	BH 710	125	-	-	-	-	-	-	-	-	-	-	-	-	-	99
SEED CONSULTANTS	SC1224	122	-	-	-	-	-	-	-	-	-	-	-	-	-	98
VIGORO	V5240	111	-	-	-	-	-	-	-	-	-	-	-	-	-	98
AUGUSTA	3762	120	-	-	-	-	-	-	-	-	-	-	-	-	-	98

(continued on next page)

Relative  
Predictive  
Value <sup>§§</sup>  
*on next page)*

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

Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern Piedmont			Northern Piedmont <sup>‡</sup>	Southwest / Mountain			Shenandoah Valley	Multi-site Average	Number of Obs.	Relative Predictive Value <sup>§§</sup>
			2004	2003	2004		2003	2004	2003				
AUGUSTA	5635	118	-	-	-	-	-	-	-	98	98	1	
VIGORO	V61R36	120	-	98	-	-	-	-	-	-	-	98	1
ZIMMERMAN	1822W	118	-	-	-	-	-	-	-	98	98	1	
ZIMMERMAN	WX7663	118	-	-	-	-	-	-	-	98	98	1	
DOEBLERS	648RYG	111	-	-	-	-	99	-	96	-	98	2	
SEED CONSULTANTS	SC1195	119	-	-	-	-	97	-	97	-	97	2	
AUGUSTA	T-5965RR	118	-	-	-	-	-	-	-	97	97	1	Lower predictive value ( <i>continued from last page</i> )
AUGUSTA	3556	117	-	-	-	-	-	96	-	-	96	1	
BALDRIDGE	BH-705	123	-	-	-	-	-	-	-	93	93	1	
TRISLER BY AUGUSTA	T205RR	118	-	-	-	-	-	-	93	-	93	1	
T.A. SEEDS	TA-8002	120	-	91	-	-	-	-	-	-	-	91	
HYTEST	HT7930Bt	119	-	-	-	-	-	-	-	-	90	90	1
ZIMMERMAN	1851W	118	-	-	-	-	-	-	-	-	89	89	1
T.A. SEEDS	TA-6880F	113	-	-	82	-	-	-	-	-	82	1	
BALDRIDGE	BH-611A	110	-	-	-	-	-	-	-	80	80	1	

<sup>†</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.<sup>‡</sup> No hybrids were planted at Northern Piedmont in 2003 due to repeated wet weather delays.<sup>§§</sup> Relative Milk per Ton (Quality) calculated by dividing Milk per Ton for each hybrid at each site/year by the average Milk per Ton for that site/year. Numbers over 100 indicate above-average yield, 100 indicates average yield, numbers under 100 indicate below-average yield.<sup>§§</sup> Hybrids that were tested over more site/year combinations provide a better estimate of hybrid performance than those tested only in a single year/site location.<sup>\*</sup> Indicates hybrids that were not significantly different from the highest Milk per Ton (Quality) value at their particular site/year. Shading indicates hybrids within one LSD of the top performer for that site/year which appeared at three or more site/years.

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

Brand	Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern Piedmont				Northern Piedmont <sup>‡</sup>				Southwest / Mountain				Shenandoah Valley				Multi-site Average		Number of Obs.	Relative Predictive Value <sup>§§</sup>	
				2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003			
Relative Milk per Acre																								
SOUTHERN STATES	900Bt		119	94	-	115 *	-	145 *	-	109 *	107 *	118 *	115	6										
MID-ATLANTIC	MA8200ARR		119	-	109 *	-	-	-	-	113 *	-	108	110	3										
PIONEER BRAND	33J57		116	112 *	99 *	111 *	-	-	121	103 *	104 *	120 *	110	7										
MID-ATLANTIC	MA7150YG-MPA		115	123 *	-	108 *	-	-	90	-	107 *	-	107	4										
DEKALB	DKC62-15		112	-	100 *	-	-	-	-	110 *	-	110	107	3										
TRISLER BY AUGUSTA	T312256Bt		118	112 *	-	106 *	-	-	107	-	98	-	106	4										
PIONEER BRAND	31G66		114	105	104 *	79	-	-	112	114 *	112 *	112	105	7										
TRISLER BY AUGUSTA	T3258CB		118	97	-	107 *	-	-	115	-	102 *	-	105	4										
MID-ATLANTIC	MA7150BU/RR-MPA		115	116 *	-	110 *	-	-	86	-	106 *	-	104	4										
TRISLER BY AUGUSTA	MA7130YG		113	113 *	112 *	101 *	-	-	64	109 *	106 *	121 *	104	7										
PIONEER BRAND	T5337RRRCB		115	110	-	99 *	-	-	99	-	106 *	-	103	4										
PIONEER BRAND	31G98		119	111 *	103 *	83	-	-	120	103 *	98	101	103	7										
PIONEER BRAND	31R88		117	89	88	-	-	-	119	111 *	113 *	110	103	7										
PIONEER BRAND	34B24		111	-	-	90	-	-	113	-	101 *	-	101	3										
SOUTHERN STATES	842RR		118	91	-	93	-	-	119	104 *	99	101	101	6										
MID-ATLANTIC	MA9189		118	107	-	96	-	-	83	-	113 *	-	100	4										
VIGORO	V58Y41		117	95	106 *	100 *	-	-	64	-	109 *	122 *	99	6										
PIONEER BRAND	33V15		115	90	102 *	90	-	-	94	105 *	113 *	102	99	7										
DEKALB	DKC69-71(RR2/YGCB)		119	105	-	78	-	-	119	-	94	-	99	4										
DOEBLERS	877YRR		123	92	107 *	96	-	-	-	-	-	-	99	3										
MID-ATLANTIC	MA9137CRW		113	-	100 *	-	-	-	-	92	-	-	102	98	3									
DEKALB	DKC64-11(RR2/YGCB)		114	95	107 *	99 *	-	-	84	100 *	93	107	98	7										
MID-ATLANTIC	MA9200		120	92	100 *	90	-	-	115	113 *	84	92	98	7										
DEKALB	DKC63-81(RR2/YGCB)		113	99	-	100 *	-	-	100	-	91	-	98	4										
AUGUSTA	9561		119	86	-	101 *	-	-	102	-	100	-	97	4										
NK	N91-R9		116	117 *	-	88	-	-	118	80	98	81	97	6										
DEKALB	DKC63-80(RR2)		113	96	-	90	-	-	108	-	92	-	96	4										
DEKALB	DKC66-50		116	-	93	-	-	-	-	97 *	-	-	99	3										
VATECH	BMR101		115	105	109 *	83	-	-	100	90	103 *	83	96	7										
DOEBLERS	S707Q		115	93	93	81	-	-	110	100 *	98	93	95	7										
MID-ATLANTIC	MA9185RR		118	95	96 *	83	-	-	90	105 *	98	99	95	7										
HUBNER	MA9140YG		114	81	107 *	94	-	-	84	78	97	125 *	95	7										
NK	H3692		115	89	-	81	-	-	115	-	95	-	95	4										
ASGROW	N82-A7		110	91	-	87	-	-	70	107 *	97	104	93	6										
ASGROW	RX774		113	-	91	-	-	-	87	-	102	-	93	3										
DOEBLERS	760DT		115	94	89	73	-	-	84	87	93	107	90	7										
ASGROW	702YG		110	80	-	84	-	-	97	-	95	-	89	4										
NK	N82-J6		108	96	-	89	-	-	60	-	101 *	-	87	4										

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

Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern Piedmont			Northern Piedmont <sup>‡</sup>			Southwest / Mountain			Shenandoah Valley			Multi-site Average	Number of Obs.	Relative Predictive Value <sup>§§</sup>
			2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003			
TRISLER BY AUGUSTA	T5338CB	115	119 *	-	-	-	-	-	122 *	-	-	-	-	-	119	1	
SEED CONSULTANTS	SC1195	119	-	-	-	-	-	-	-	108 *	-	-	-	-	115	2	
BALDRIDGE	BH 710	125	-	-	-	-	-	-	-	108 *	-	-	-	-	108	1	
AUGUSTA	2056	116	-	-	-	-	-	-	112 *	-	-	104	108	108	108	2	
T.A. SEEDS	EX10110	117	-	-	-	-	-	-	113 *	-	-	103	108	108	108	2	
SEED CONSULTANTS	X119B	119	-	-	-	-	-	-	-	-	-	-	-	-	108	2	
CHEMGRO	7740Bt	117	-	-	-	-	-	-	-	-	-	91	123 *	107	107	2	
AUGUSTA	T-03-21C B	120	-	-	-	-	-	-	-	-	-	106	106	106	106	1	
NK	NX8201	110	-	-	-	-	-	-	107 *	-	-	104	106	106	106	2	
MYCOGEN	7512	112	-	-	-	-	-	-	-	108 *	-	102	105	105	105	2	
AUGUSTA	3562	117	110	99 *	-	104 *	-	-	-	-	-	-	-	-	105	2	
T.A. SEEDS	TA 8002	120	-	-	-	-	-	-	110 *	-	-	-	-	-	104	1	
GARST	8288	118	-	-	-	-	-	-	-	-	-	-	-	-	104	1	
BALDRIDGE	BH-567	115	-	-	-	-	-	-	-	-	-	97	104	104	104	2	
AUGUSTA	A311256	117	-	-	-	-	-	-	-	-	-	103	-	-	103	1	
GARST	8200YG1	118	-	-	-	-	-	-	102 *	-	-	102	-	-	102	2	
HYTEST	HT7790Bt/RR	116	-	-	-	-	-	-	-	-	-	102	102	102	102	1	
HYTEST	TNT-119	119	-	-	-	-	-	-	-	-	-	102	102	102	102	1	
AUGUSTA	5635	118	-	-	-	-	-	-	-	-	-	101	101	101	101	1	
CHEMGRO	7511Bt	115	-	-	-	-	-	-	-	-	-	100	-	-	100	1	
BIOGENE	1130	113	-	-	-	-	-	-	-	-	-	100	100	100	100	1	
ZIMMERMAN	1822W	118	-	-	-	-	-	-	-	-	-	100	100	100	100	1	
TRISLER BY AUGUSTA	T2057RR	118	-	-	-	-	-	-	-	-	-	99	-	-	99	1	
CHEMGRO	7227	112	-	-	-	-	-	-	-	-	-	98	98	98	98	1	
VIGORO	V54R66	114	-	-	-	-	-	-	-	106 *	-	98	98	98	98	2	
SEED CONSULTANTS	X124B	124	-	-	-	-	-	-	-	-	-	95	-	-	97	2	
SEED CONSULTANTS	SC1224	122	-	-	-	-	-	-	91	-	87	-	107	97	97	2	
DOEBLERS	649XY	111	-	-	-	-	-	-	99	-	95	-	-	98	98	2	
HYTEST	HT7887/RR	118	-	-	-	-	-	-	-	-	-	95	-	-	97	1	
GARST	8348	115	-	-	-	-	-	-	-	-	-	97	-	-	97	2	
HYTEST	HT7799Bt	117	-	-	-	-	-	-	97	-	95	-	-	-	96	2	
VIGORO	V61R36	120	96 *	-	-	-	-	-	-	-	-	-	-	-	96	1	
GARST	8450IT	111	-	-	-	-	-	-	-	92	-	-	-	-	95	2	
AUGUSTA	4487	110	-	-	-	-	-	-	-	-	-	-	-	-	95	1	
DOEBLERS	648RYG	111	-	-	-	-	-	-	-	95	-	94	-	-	94	2	
HYTEST	HT7930Bt	119	-	-	-	-	-	-	87	-	-	99	-	-	94	1	
VIGORO	V5240	111	-	-	-	-	-	-	-	-	-	93	-	-	93	2	
AUGUSTA	2062	116	-	-	-	-	-	-	-	-	-	93	-	-	93	1	

Lower predictive value

(continued on next page)

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

Brand	Hybrid	DTM per Co. <sup>†</sup>	Southern	Northern	Southwest / Mountain	Shenandoah Valley	Multistate Average	Number of Obs.	Relative Predictive Value <sup>§§</sup>
			Piedmont	Piedmont <sup>‡</sup>	2003	2004	2003	2004	2003
Relative Milk per Acre									
AUGUSTA	T-5965RR	118	-	-	-	-	-	92	92
GARST	8292YG1	118	-	90	-	-	93	-	92
MYCOGEN	8681FQ	118	-	-	-	-	-	89	89
T.A. SEEDS	TA 7911	119	-	88	-	-	-	88	1
BIOGENE	1152	115	-	-	-	-	88	88	1
AUGUSTA	3762	120	87	-	-	-	-	87	1
SEED CONSULTANTS	SC11B45	114	-	-	66	-	106 *	-	86
GARST	7850	115	-	-	-	87	-	84	2
AUGUSTA	3556	117	-	-	-	84	-	84	2
GARST	8378YG1	115	-	86	-	-	78	-	86
ZIMMERMAN	1851W	118	-	-	-	-	-	80	80
ZIMMERMAN	WX7663	118	-	-	-	-	-	79	79
T.A. SEEDS	TA 6880F	113	-	75	-	-	-	75	1
BALDRIDGE	BH-705	123	-	-	-	-	-	69	69
BALDRIDGE	BH-611A	110	-	-	-	-	-	53	53

<sup>†</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.<sup>‡</sup> No hybrids were planted at Northern Piedmont in 2003 due to repeated wet weather delays.<sup>§</sup> Relative Milk per Acre (Yield x Quality) calculated by dividing Milk per Acre for each hybrid at each site/year by the average Milk per Acre for that site/year. Numbers over 100 indicate above-average yield, 100 indicates average yield, numbers under 100 indicate below-average yield.<sup>§§</sup> Hybrids that were tested over more site/year combinations provide a better estimate of hybrid performance than those tested only in a single year/site location.<sup>\*</sup> Indicates hybrids that were not significantly different from the highest Milk per Acre (Yield x Quality) value at their particular site/year. Shading indicates hybrids within one LSD of the top performer for that site/year which appeared at three or more site/years.

LSD of the top performer for that site/year which appeared at three or more site/years.

Table 5. 2004 Corn Silage Test Results at the Shenandoah Valley Site

Brand	Brand	Hybrid	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NE <sub>L</sub>	TDN	Milk2000	Milk2000
DM per Co. †	%	ton/acre	ton/acre	%	ton/acre	%	ton/acre	%	ton/ton	slage	lb/milk/acre	
MYCOGEN	7512		112	31.7	34.8*	12.2	9.3	25	41	60	0.68	68
MID-ATLANTIC	MA7130YG		113	32.3	34.3	12.0	8.4	26	43	57	0.68	68
GARST	8376YG1		115	33.1	26.2	9.2	8.2	27	44	56	0.67	67
WA TECH	BMR101		115	33.3	30.3	10.6	8.7	28	46	72	0.67	67
DEKALB	DKC64-11(RR2/YGCB)		114	33.3	31.9	11.2	8.7	27	44	55	0.67	67
SEED CONSULTANTS	SC11B45		114	33.6	34.5	12.1	8.0	25	42	58	0.68	68
MID-ATLANTIC	MA7150BVR-MPA		115	33.7	34.6	12.1	8.3	26	43	57	0.67	68
MID-ATLANTIC	MA7150YG-MPA		115	34.2	34.4	12.1	8.1	25	41	59	0.68	68
NK	N82-J6		108	34.4	32.5	11.4	8.7	24	41	57	0.68	69
HUBNER	H3692		115	34.4	32.2	11.3	8.8	28	45	57	0.66	67
TRISLER BY AUGUSTA	T5337RRCB		115	34.7	34.5	12.1	7.8	26	42	58	0.67	68
DEKALB	DKC63-80(RR2)		113	34.8	31.8	11.1	8.8	25	42	53	0.68	68
DEKALB	DKC63-81(RR2/YGCB)		113	35.0	30.9	10.8	8.8	24	40	55	0.68	69
PIONEER BRAND	31G66		114	35.0	37.2*	13.0	8.2	26	43	58	0.68	68
NK	N82-A7		110	35.1	33.5	11.7	7.8	26	42	55	0.67	68
CHEM-GRO	7511Bt		115	35.3	33.7	11.8	9.1	26	42	56	0.68	68
DOEBELERS	760DT		115	36.1	30.4	10.6	9.2	24	41	58	0.68	69
PIONEER BRAND	34B24		111	36.4	32.8	11.5	8.3	24	40	60	0.69	69
MID-ATLANTIC	MA9140YG		114	36.8	35.4*	12.4	8.6	28	45	53	0.66	67
DOEBELERS	S707Q		115	36.8	34.5	12.1	8.7	26	44	55	0.67	68
PIONEER BRAND	33V15		115	37.2	37.1*	13.0	8.1	25	41	59	0.68	68
VIGORO	V5240		111	37.4	33.6	11.8	7.9	26	43	57	0.67	68
ASGROW	702YG		110	37.5	32.3	11.3	8.3	25	42	57	0.68	68
DOEBELERS	648RYG		111	37.8	33.3	11.7	8.2	26	43	55	0.67	68
NK	N91-R9		116	31.2	35.1*	12.3	8.0	31	48	56	0.65	66
PIONEER BRAND	31G98		119	31.6	35.9*	12.6	8.3	28	45	51	0.66	67
MID-ATLANTIC	MA9200		120	31.6	29.0	10.1	9.0	28	47	56	0.66	67
TRISLER BY AUGUSTA	T2057RR		118	32.0	35.8*	12.5	8.3	30	48	54	0.65	66
SOUTHERN STATES	842RR		118	32.7	33.8	11.8	8.7	28	45	56	0.66	67
TRISLER BY AUGUSTA	T312256Bt		118	32.8	33.1	11.6	8.7	27	44	56	0.67	67
AUGUSTA	T3228PCB		118	33.0	33.5	11.7	8.7	26	42	57	0.68	68
SEED CONSULTANTS	9561		119	33.2	32.8	11.5	7.7	26	42	57	0.68	68
X119B	119		119	33.4	31.1	10.9	8.4	27	44	57	0.67	67
PIONEER BRAND	31R88		117	33.8	35.9*	12.6	8.0	24	40	59	0.68	69
BALDRIDGE	BH710		125	33.8	37.9*	13.3	9.4	28	46	56	0.67	67
MID-ATLANTIC	MA9185RR		118	33.9	33.2	11.6	8.4	27	44	56	0.67	67
SOUTHERN STATES	900Bt		119	34.0	36.6*	12.8	8.1	27	45	55	0.67	67

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Table 5. 2004 Corn Silage Test Results at the Shenandoah Valley Site

Brand	Hybrid	DM per Co. <sup>†</sup>	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	Digest.	NE <sub>L</sub>	TDN	Milk2000 lb/milkton stage	Milk2000 Milk/acre
GARST	8200YG1	118	34.0	33.5	11.7	8.3	26	42	59	0.68	68	3454	40492*
VIGORO	V58741	117	34.1	34.5	12.1	7.9	24	40	58	0.68	69	3583	43248*
SEED CONSULTANTS	SC1224	122	34.3	32.1	11.2	8.4	27	44	56	0.67	68	3355	37700
MID-ATLANTIC	MA9189	118	34.9	38.2*	13.4	8.3	27	43	56	0.67	68	3344	44744*
CHEMGRO	7740Bt	117	35.0	29.5	10.3	8.1	25	41	59	0.68	68	3520	36337
AUGUSTA	A311256	117	35.5	34.2	12.0	8.0	26	43	58	0.67	68	3409	40831*
PIONEER BRAND	33357	116	35.5	34.3	12.0	8.3	25	42	57	0.68	68	3441	41352*
SEED CONSULTANTS	SC11195	119	35.8	37.6*	13.2	7.8	28	45	56	0.66	67	3266	43028*
DEKALB	DKC69-7-1(RR2/YGCB)	119	35.9	33.9	11.9	8.5	29	48	54	0.66	66	3136	37185
SEED CONSULTANTS	X124B	124	36.7	36.1*	12.6	8.1	27	45	58	0.67	67	3334	42076*
GARST	8202YG1	118	37.0	30.0	10.5	8.6	24	39	61	0.69	69	3541	37154
HYTEST	HT7799Bt	117	37.0	30.8	10.8	8.1	24	39	59	0.69	69	3518	37943
<b>Site Average:</b>		34.5	33.6	11.8	8.4	26	43	57	0.67	68	3375	37739	
<b>CV:</b>			8.9	8.9	3.9	9	7	3	1.74	2	4	10	
<b>LSD (0.10):</b>			3.5	1.2	0.4	3	3	2	0.01	1	157	4824	

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

\*An asterisk indicates number's not statistically different from the highest value in that column (i.e. within one LSD of the top performer). Shading indicates hybrids with milk per acre values not significantly different from the highest value in that column.

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Table 6. Two-year Average Corn Silage Test Results (2003 &amp; 2004) at the Shenandoah Valley site

Brand	Hybrid	DTM per Co. <sup>a</sup>	DM at Harvest	Yield at 35% DM	DM Yield ton/acre	Crude Protein %	ADF %	NDF %	NDF Digest.	NE <sub>L</sub>	TDN	Milk/ton	Milk/2000
NK	N91-R9	116	29.30	28.41	9.94	7.65	31.61 *	50.16 *	54.49	0.64	65.20	299	30245
MID-ATLANTIC	MA9200	120	29.45	24.74	8.66	8.62 *	27.31	57.10	67.27	0.67	67.27	3336	28835
PIONEER BRAND	31G58	119	29.98	29.43 *	10.30 *	7.70	27.26	44.15	52.30	0.67	67.29	3207	32782
VATECH	BMR101	115	30.19	25.02	8.76	8.56 *	26.47	44.57	70.77 *	0.69 *	69.80 *	3679 *	31456
MYCOGEN	7512	112	30.45	28.05	9.82	8.89 *	24.28	41.41	59.83	0.68	68.72	3566 *	34917
SOUTHERN STATES	842RR	119	30.53	27.95	9.78	8.18	27.63	45.23	56.79	0.66	67.11	3397	33143
SOUTHERN STATES	900Bt	120	31.60	30.90 *	10.82 *	7.37	26.66	44.15	56.21	0.67	67.58	3405	36852 *
MID-ATLANTIC	MA9185RR	118	31.85	27.51	9.63	7.80	27.24	44.90	56.61	0.67	67.30	3394	32632
MID-ATLANTIC	MA7130YG	113	32.33	29.48 *	10.32 *	7.97	24.50	40.84	57.80	0.68	68.62	3605 *	37001 *
PIONEER BRAND	31R88	117	32.82	29.45 *	10.31 *	7.79	24.58	40.85	58.56	0.68	68.58	3593 *	37031 *
DEKALB	DKC64-11(RP2NY/GCB)	114	32.91	27.33	9.56	7.98	26.63	43.68	55.81	0.67	67.59	3435	32667
VIGORO	V58Y41	118	33.34	29.63 *	10.37 *	7.61	23.62	39.45	58.75	0.69 *	69.04	3663 *	37788 *
NK	N82-A7	110	33.52	27.95	9.78	7.60	26.13	43.34	55.67	0.67	67.83	3399	33055
PIONEER BRAND	31G66	114	33.63	30.29 *	10.60 *	7.93	25.74	43.15	58.48	0.67	68.02	3514 *	37026 *
NK	N82-J6	108	33.67	29.06 *	10.17 *	8.31	24.13	41.19	57.84	0.71 *	70.79 *	3591 *	35687 *
CHEM GRO	7740Bt	117	34.00	27.21	9.53	7.62	24.36	40.47	58.78	0.68	68.68	3623 *	34462
DOEBLERS	S707Q	115	34.21	27.18	9.51	8.27	25.84	43.25	55.82	0.67	67.97	3360	31823
PIONEER BRAND	33157	116	34.38	29.15 *	10.20 *	8.01	23.67	39.80	57.63	0.69 *	69.01	3601 *	36482 *
DOEBLERS	760DT	115	34.69	25.95	9.08	8.59 *	23.52	40.27	58.39	0.69 *	69.09	3600 *	32530
PIONEER BRAND	33V15	115	34.98	28.78	10.07	7.86	24.25	41.02	59.73	0.68	68.73	3591 *	35821 *
MID-ATLANTIC	MA9140YG	114	36.08	30.81 *	10.78 *	7.96	26.35	43.74	54.85	0.67	67.73	3357	35842 *
<b>Site Average:</b>			32.57	28.31	9.91	8.01	25.81	42.93	57.64	0.68	68.19	3473	34194
<b>LSD(.010)</b>			1.85	0.65	0.33	1.55	2.07	1.43	0.02	1.65	1.23	2709	

\* An asterisk indicates numbers not statistically different from the highest value in that column (i.e. within one LSD of the top performer).

Table 7. 2004 Corn Silage Test Results at the Southwest/Mountain Site

Brand	Hybrid	D TM per Co. <sup>t</sup>	DM at Harvest	Yield at 35%	DM Yield	Crude Protein	ADF	NDF	NE <sub>i</sub>	TDN	Milk/2000	Milk/ton silage	lb milk/ton	
MID-ATLANTIC	MA7130YG	113	39.7	13.3	4.7	7.5	23	41	61	0.69	69	3398	15616	
NK	N82-16	108	40.0	12.1	4.3	7.5	23	41	61	0.69	69	3411	14539	
VATECH	BMR 101	115	41.9	18.6	6.5	7.0	22	41	74	0.69	70	3747*	24373	
DEKALB	DKC 64-11(RR2YGCB)	114	42.0	17.8	6.2	8.4	23	40	61	0.69	69	3295	20447	
MID-ATLANTIC	MA7150B(RR-MPA	115	42.2	17.4	6.1	6.9	22	38	63	0.70	70	3444	20862	
SEED CONSULTANTS	MA7150YG-MPA	115	42.4	18.5	6.5	6.0	25	42	63	0.68	69	3351	21823	
NK	SC11B45	114	42.9	13.7	4.8	7.0	22	42	63	0.69	70	3370	16105	
N82-A7	110	43.2	15.9	5.6	7.1	25	43	57	68	68	3060	16859		
TRISLER BY AUGUSTA	T5337RRRCB	115	43.5	20.7	7.3	6.6	23	39	61	0.69	69	3301	23925	
PIONEER BRAND	34B24	111	43.9	23.9	8.4	6.7	24	41	61	0.68	69	3294	27456	
DEKALB	DKC 63-81(RR2YGCB)	113	44.3	23.1	8.1	7.5	21	37	58	0.70	71	3242	26247	
ASGROW	702YG	110	44.4	20.7	7.2	6.5	21	37	60	0.70	70	3247	23508	
DEKALB	DKC 63-80(RR2)	113	44.4	22.3	7.8	6.7	23	41	57	0.69	69	3092	24168	
MID-ATLANTIC	MA9140YG	114	44.5	18.2	6.4	6.9	24	42	59	0.68	69	3205	20431	
DOEBLERS	760DT	115	45.1	17.3	6.1	7.0	22	39	61	0.70	70	3339	20326	
PIONEER BRAND	33V15	115	45.5	20.3	7.1	6.2	23	42	60	0.69	69	3202	22726	
HUBNER	H3692	115	46.6	24.5	8.6	7.0	23	40	61	0.69	69	3248	27909	
DOEBLERS	648RYG	111	46.6	20.4	7.2	6.9	22	39	60	0.69	70	3218	23005	
PIONEER BRAND	31G66	114	46.6	24.1	8.4	7.1	22	39	62	0.69	70	3235	27230	
DOEBLERS	S707Q	115	47.2	24.8	8.7	7.2	26	44	56	0.68	68	3050	26668	
TRISLER BY AUGUSTA	T3258CB	118	38.3	23.2	8.1	7.2	25	42	60	0.68	68	3414	27776	
MID-ATLANTIC	MA9185RR	118	39.0	19.5	6.8	6.3	27	45	57	0.67	67	3206	21873	
NK	N91-R9	116	41.1	25.9*	9.1	6.5	26	44	56	0.68	68	3160	28710	
VIGORO	V58Y41	117	41.9	12.8	4.5	7.2	21	37	64	0.70	70	3512*	15638	
MID-ATLANTIC	MA9200	120	42.0	24.8	8.7	7.2	25	43	59	0.68	69	3227	27918	
SEED CONSULTANTS	SC1224	122	42.2	21.8	7.6	6.8	27	44	59	0.67	68	3155	24078	
MID-ATLANTIC	MA9189	118	42.5	17.6	6.1	6.7	24	42	61	0.68	69	3284	20171	
PIONEER BRAND	33J57	116	42.9	24.8	8.7	7.4	22	38	61	0.70	70	3369	29234	
SOUTHERN STATES	842RR	118	43.7	24.9	8.7	6.5	25	43	62	0.68	68	3312	28787	
SEED CONSULTANTS	X119B	119	43.9	26.3*	9.2	6.8	25	42	56	0.68	68	3054	29739*	
PIONEER BRAND	9561	119	43.9	27.8*	9.7	6.7	24	41	58	0.68	69	3166	29226	
AUGUSTA	T312256Bt	118	44.3	23.4	7.5	6.1	23	40	62	0.69	69	3303	24782	
TRISLER BY AUGUSTA	31R88	117	44.4	25.9*	9.1	6.7	23	41	60	0.69	69	3172	25882	
PIONEER BRAND	X124B	124	44.7	19.7	6.9	6.2	27	46	61	0.67	67	3177	22012	
SEED CONSULTANTS	HT7799Bt	117	45.0	20.5	7.2	6.7	19	34	61	0.71	71	3285	23545	
HYTEST	SEED CONSULTANTS	SC1195	119	46.1	26.8*	9.4	5.8	25	42	60	0.68	68	3156	28606*
DEKALB	DKC 69-71(RR2YGCB)	119	48.2	26.7*	9.4	7.3	26	45	59	0.67	68	3095	28980	
SOUTHERN STATES	900Bt	119	49.3	302*	10.6	5.9	21	41	64	0.70	70	3316	35102*	
<b>Site Average:</b>		43.7	21.6	7.5	6.8	24	41	60	0.69	69	3244	23655		
<b>CV:</b>		14.6	14.6	10.7	13	10	5	2.31	2	5	5	16		
<b>LSD (0.10):</b>		4.7	1.6	1.1	5	6	5	0.02	2	2.59	5707			

<sup>t</sup>Days to maturity provided by company; differences in maturity rating methods may exist between companies.<sup>\*</sup>An asterisk indicates a number of statistical difference from the highest value in that column (i.e. within one LSD of the top performer). Shading indicates hybrids with milk per acre values not significantly different from the highest value in that column.

Table 8. Two-year Average Corn Silage Test Results (2003 &amp; 2004) at Southwest/Mountain site

Brand	Hybrid	DM per Co. <sup>†</sup>	DM at Harvest	Yield <sup>a</sup> 35%	DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest.	NE <sub>L</sub>	TIN	Milk2000	Milk2000
NK	N91-R9	116	3526	26.17	9.16	6.27	29.89 *	48.63 *	51.32	0.66	66.02	3000	27506	
VATECH	BMR101	115	3742	20.45	7.16	7.39 *	24.12	42.57	69.18 *	0.71 *	71.07 *	3789	*	
MID-ATLANTIC	MA9200	120	3863	27.03 *	9.35 *	7.38 *	23.55	41.04	57.84	0.69 *	69.08 *	3514	33385 *	
PIONEER BRAND	31G98	119	38.71	28.58 *	10.00 *	6.79	25.99	43.07	53.19	0.67	67.90	3221	32231 *	
NK	N82-J6	108	38.77	21.31	7.46	7.40 *	22.78	39.34	58.34	0.69 *	69.44 *	3592	*	
MID-ATLANTIC	MA7130YG	113	38.84	21.95	7.68	7.00	24.01	40.42	57.97	0.68	68.85	3529	27281	
DEKALB	DKC64-1(RR2/YGB)	114	39.09	23.43	8.20	7.57 *	24.22	40.70	57.30	0.68	68.75	3493	28619	
MID-ATLANTIC	MA9185RR	118	39.18	25.17	8.81	6.20	26.12	42.73	54.52	0.67	67.84	3407	30567	
DO EBLERS	760DT	115	40.27	21.75	7.61	7.10 *	24.56	41.73	55.06	0.68	68.59	3380	25944	
PIONEER BRAND	31R88	117	40.29	27.78 *	9.72 *	6.68	22.96	38.53	56.59	0.69 *	69.36 *	3439	33585 *	
SOUTHERN STATES	842RR	119	40.32	27.26 *	9.54 *	6.47	25.96	43.41	55.97	0.67	67.91	3324	31986 *	
SOUTHERN STATES	900BT	120	41.37	29.13 *	10.20 *	6.51	23.03	40.32	57.15	0.69 *	68.32 *	3507	35772 *	
PIONEER BRAND	31G66	114	41.73	27.43 *	9.60 *	7.04	23.28	39.81	57.46	0.69 *	69.20 *	3442	33247 *	
MID-ATLANTIC	MA9140YG	114	41.81	21.18	7.41	6.78	26.67	44.83	53.84	0.67	67.57	3189	23615	
NK	N82-A7	110	41.95	23.63	8.27	6.81	23.52	39.57	54.61	0.69 *	69.09 *	3461	29231	
PIONEER BRAND	33V15	115	42.60	25.30	8.86	6.49	24.91	42.45	56.88	0.68	68.42	3451	30820	
PIONEER BRAND	33J57	116	42.86	25.74	9.01	7.39 *	22.63	39.00	57.80	0.69 *	69.52 *	3488	31612 *	
DO EBLERS	S707Q	115	44.77	25.69	8.99	7.34 *	24.41	41.47	54.85	0.68	68.66	3361	30389	
<b>Site Average:</b>		40.23	25.00	8.74	6.93	24.59	41.64	56.60	68.71	0.68	68.71	3417	30051	
<b>L.S.D.(0.10)</b>			2.81	0.99	0.49	2.85	3.79	2.51	0.02	2.00	2.03	4365		

\* An asterisk indicates numbers not statistically different from the highest value in that column (i.e. within one LSD of the top performer).

Table 9. 2004 Corn Silage Test Results at the Southern Piedmont Site

Brand	Hybrid	DTM per Co. <sup>†</sup>	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NE <sub>L</sub>	TDN	Milk2000	Milk2000
VA-TECH	BMR101	115	41.6	24.1	8.4	7.7	25	43	73	0.68	68	3824*
NK	N82-J6	108	42.4	26.3	9.2	8.1	25	44	59	0.68	68	3228
MID-ATLANTIC	MA7130YG	113	45.8	31.7*	11.1	7.3	25	41	58	0.68	69	3146
TRISLER BY AUGUSTA	T5337RRCB	115	47.1	29.5	10.3	7.4	22	38	60	0.69	70	3247
MID-ATLANTIC	MA7150GYMPA	115	47.2	33.5*	11.7	7.1	24	39	60	0.69	69	3211
TRISLER BY AUGUSTA	T5338CB	115	47.6	31.8*	11.1	7.1	22	38	61	0.69	70	3291
MID-ATLANTIC	MA7150BT/RR-MPA	115	47.7	33.6*	11.8	7.0	27	44	57	0.67	67	3039
HUBNER	H3692	115	48.0	25.1	8.8	7.9	24	40	58	0.69	69	3125
DEKALB	DKC64-11(RR2/YGCB)	114	48.6	26.0	9.1	8.0	24	41	59	0.68	69	3193
PIONEER BRAND	31G66	114	48.6	28.6	10.0	7.5	24	42	60	0.68	69	3217
DEKALB	DKC63-81(RR2/YGCB)	113	49.2	26.9	9.4	7.4	23	40	57	0.69	69	3124
DOEBLERS	760DT	115	49.4	25.5	8.9	8.3	22	39	60	0.69	70	3238
DEKALB	DKC63-80(RR2)	113	49.5	27.2	9.5	7.5	21	37	58	0.70	70	30521
PIONEER BRAND	33Y15	115	50.2	26.0	9.1	7.2	26	45	57	0.67	68	3000
DOEBLERS	S707Q	115	50.7	28.9	10.1	7.0	29	48	54	0.66	66	2833
MID-ATLANTIC	MA9140YG	114	52.4	26.0	9.1	7.5	29	47	52	0.66	66	2734
ASGROW	702YG	110	52.6	23.0	8.1	7.4	24	41	56	0.69	69	3051
NK	N82-A7	110	52.9	29.2	10.2	6.4	30	48	55	0.65	66	2784
NK	N91-R9	116	41.4	33.6*	11.8	7.7	28	47	55	0.66	67	3052
PIONEER BRAND	33S57	116	44.4	30.8*	10.8	8.1	24	42	57	0.68	69	3181
SOUTHERN STATES	842RR	118	45.4	25.6	9.0	8.1	26	44	58	0.68	68	3110
MID-ATLANTIC	MA9189	118	45.4	30.3	10.6	7.5	26	44	57	0.68	68	3093
PIONEER BRAND	31G68	119	45.6	30.7*	10.7	7.7	23	40	57	0.69	69	3183
TRISLER BY AUGUSTA	T312256B1	118	46.5	30.1	10.5	8.0	23	40	60	0.69	69	3267
VIGORO	V58Y41	117	46.6	27.0	9.5	7.0	27	44	58	0.67	67	3088
PIONEER BRAND	31R88	117	47.4	26.2	9.2	7.2	25	40	54	0.68	69	2996
TRISLER BY AUGUSTA	T3258CB	118	48.3	25.9	9.1	7.7	23	39	62	0.69	70	3291
DOEBLERS	877VRR	123	48.5	27.7	9.7	7.9	28	46	56	0.66	67	2936
SEED CONSULTANTS	X124B	124	49.3	26.7	9.4	7.2	26	43	61	0.68	68	3235
MID-ATLANTIC	MA9200	120	49.4	27.0	9.5	8.4	25	43	55	0.68	68	3003
AUGUSTA	3562	117	49.6	31.1*	10.9	7.5	24	42	58	0.68	69	3120
DEKALB	DKC69-71(RR2/YGCB)	119	50.1	31.9*	11.2	7.1	28	47	55	0.66	67	2897
AUGUSTA	9561	119	50.6	25.2	8.8	7.4	26	43	56	0.67	68	2998
SOUTHERN STATES	900Bt	119	54.1	28.1	9.8	7.6	24	42	54	0.68	69	28976
MID-ATLANTIC	MA9185RR	118	55.6	29.0	10.2	7.6	25	41	54	0.68	68	29299
<b>Site Average:</b>		48.3	28.3	9.9	7.5	25	42	58	0.68	68	3088	29285
<b>CV:</b>			9.4	9.4	6.9	15	11	7	2.90	3	8	11
<b>LSD (0.10):</b>			3.1	1.1	0.6	4	6	5	0.02	2	301	3832

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

†An asterisk indicates numbers not statistically different from the highest value in that column (i.e. within one LSD of the top performer). Shading indicates hybrids with milk per acre values not significantly different from the highest value in that column.

Table 10. Two-year Average Corn Silage Test Results (2003 &amp; 2004) at Southern Piedmont site

Brand	Hybrid	DM per Co. <sup>†</sup>	DM at Harvest	Yield ± 3%	DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest.	NE <sub>L</sub>	TIN	Milk2000	Milk2000
VATECH	BMR101	115	38.06	22.67	7.93	7.07	25.46	45.06	72.25	*	68.15	*	3876	*
PIONEER BRAND	31G98	119	39.79	27.55	*	9.64	*	7.14	26.18	43.48	55.78	0.67	*	30687 *
PIONEER BRAND	33J57	116	40.42	26.32	*	9.08	*	7.69	25.73	43.72	57.32	0.67	*	30794 *
PIONEER BRAND	31F88	117	41.39	23.42	*	7.92	6.51	26.87	43.68	55.43	67.48	*	30443 *	
DOEBLERS	877VRR	120	41.55	25.19	*	8.82	*	7.56	26.98	45.37	57.77	0.67	*	25630
MID-ATLANTIC	MA7130YG	113	41.88	27.58	*	9.66	*	7.20	24.89	41.71	58.95	0.68	*	28465
MID-ATLANTIC	MA9200	120	41.95	24.51	*	8.58	7.95	*	25.49	44.01	56.08	0.68	*	3396
VIGORO	V58Y41	118	42.88	24.80	*	8.68	6.96	26.39	43.38	58.70	67.81	*	3186	
DEKALB	DK064-11(RR2/YGCB)	114	42.92	24.61	*	8.62	7.71	*	25.76	43.54	59.17	0.68	*	3331
DOEBLERS	760DT	115	43.11	22.49	*	7.55	7.62	*	24.37	41.89	58.22	0.68	*	25630
AUGUSTA	3562	118	43.70	26.66	*	9.35	*	7.11	26.34	44.52	57.71	0.67	*	32423 *
PIONEER BRAND	31G66	114	43.85	25.40	*	8.88	*	6.92	26.27	44.82	60.54	0.67	*	3231
PIONEER BRAND	33V15	115	44.22	23.96	*	8.39	7.15	26.26	43.62	58.34	67.71	*	28825	
DOEBLERS	S707Q	115	44.27	25.42	*	8.90	*	7.02	30.07	*	49.29	*	3354	
MID-ATLANTIC	MA9140YG	114	45.22	25.21	*	8.63	7.14	28.97	*	48.08	*	65.93	3019	
MID-ATLANTIC	MA9156RR	118	46.16	25.06	8.77	7.20	27.10	44.35	56.50	67.36	*	3013		
<b>Site Average:</b>		42.58	25.05	8.73	7.25	26.45	44.41	58.24	67.68	67.68	3288	28650		
<b>L.S.D. (0.10)</b>		2.38	0.83	0.50	0.50	2.77	3.62	3.17	0.01	1.33	2.14	3.368		

\* An asterisk indicates numbers not statistically different from the highest value in that column (i.e. within one LSD of the top performer).

Table 11. 2004 Corn Silage Test Results at the Northern Piedmont Site

Brand	Hybrid	DTM per Co. <sup>t</sup>	DM at Harvest	Yield at 35% DM	DM Yield	Crude Protein	ADF	NDF	NDF Digest	NE	TDN	Milk/2000 ton silage	lb milk/ton silage	Milk/2000
NK	N 82-36	108	37.5	31.3	110	8.3	26	42	50	0.67	68	3070	33732	
MID-ATLANTIC	MAT150E(R R-MPA	115	38.8	35.2	12.3	7.4	23	37	57	0.69	70	3361*	41465*	
MID-ATLANTIC	MAT130YG	113	39.2	33.2	11.6	7.6	23	38	56	0.69	69	3270	38295*	
MID-ATLANTIC	MAT150YG-MPA	115	39.9	36.4*	12.7	7.2	22	38	54	0.69	70	3190	40749*	
TRISLER	T5337RRCB	115	40.1	33.3	11.6	7.3	24	39	55	0.69	69	3200	37278*	
VATECH	BMR 101	115	40.1	25.5	8.9	8.7	25	42	67	0.68	68	3519*	31414	
DEKALB	DKC 64-11(R R2YGCB)	114	40.3	32.9	11.5	8.2	23	39	56	0.69	69	3248	37496*	
DEKALB	DKC 63-81(R R2YGCB)	113	40.5	32.1	11.3	7.9	25	41	51	0.68	68	3020	33935	
NK	N 82-A7	110	40.8	31.7	11.1	7.8	25	41	50	0.68	68	2938	32716	
DEKALB	DKC 63-80(R R2)	113	42.7	28.8	10.1	7.9	24	39	50	0.69	69	2914	29504	
PIONEER BRAND	31G66	114	42.8	30.8	10.8	7.2	28	45	50	0.66	67	2782	29994	
PIONEER BRAND	34B24	111	43.0	30.5	10.7	7.7	25	40	58	0.68	69	3164	33803	
GARST	8376YG1	115	43.5	30.0	10.5	7.7	25	41	57	0.68	68	3093	32543	
HUBNER	H 3692	115	43.7	28.9	10.1	7.6	25	40	55	0.68	68	3025	30755	
TA SEEDS	TA 6880F	113	44.6	29.5	10.3	8.0	27	46	51	0.67	68	2716	28256	
ASGROW	702YG	110	44.7	30.4	10.6	7.3	25	41	54	0.68	68	2968	31892	
DOEBLERS	S707Q	115	44.9	30.4	10.6	8.0	24	40	51	0.68	69	2877	30673	
MID-ATLANTIC	MA9140YG	114	45.2	33.4	11.7	8.3	23	40	55	0.69	69	3032	35539	
PIONEER BRAND	33V15	115	45.2	32.1	11.2	7.6	24	40	55	0.68	69	3032	33968	
DOEBLERS	780DT	115	46.0	26.2	9.2	8.6	23	39	55	0.69	69	3015	27577	
VIGORO	V5240	111	47.2	31.2	10.9	7.1	25	40	55	0.68	68	3006	32855	
PIONEER BRAND	31G98	119	36.1	29.1	10.2	7.6	27	43	50	0.67	67	3066	31231	
NK	N 91-R9	116	36.8	31.9	11.2	8.5	31	49	52	0.65	66	2949	33078	
MID-ATLANTIC	MA9185PR	118	37.4	30.2	10.6	7.2	28	45	49	0.66	67	2943	31143	
MID-ATLANTIC	MA9189	118	38.5	33.4	11.7	7.7	27	43	53	0.67	68	3103	36349	
TRISLER	T3122568t	118	38.7	35.2	12.3	7.9	25	41	55	0.68	68	3241	38993*	
VIGORO	V58Y41	117	39.7	32.6	11.4	7.0	22	37	55	0.69	70	3299	37749*	
MID-ATLANTIC	MA9200	120	40.4	31.2	10.9	8.1	25	41	54	0.68	69	3092	33907	
TRISLER	T3258CB	118	40.4	35.2	12.3	7.6	22	37	56	0.70	70	3296	40576*	
TA SEEDS	TA 8002	120	40.7	36.9*	12.9	7.6	27	42	52	0.67	68	3009	39130*	
TA SEEDS	TA 7911	119	40.9	28.5	10.0	8.8	22	37	57	0.70	70	3332	33232	
PIONEER BRAND	31R 88	117	42.1	30.7	10.7	7.3	23	39	54	0.69	69	3085	33059	
GARST	8200YG1	118	42.3	34.4	12.0	7.8	21	36	56	0.70	70	3209	38673	
SOUTHERN STATES	900BT	119	42.5	41.2*	14.4	7.3	27	43	52	0.67	68	3035	43403*	
PIONEER BRAND	33J57	116	42.6	35.8	12.5	8.1	20	34	57	0.71	71	3326	41723*	
DEKALB	DKC 69-71(R R2YGCB)	119	42.6	35.8	12.5	7.8	23	40	52	0.69	69	3001	37631*	
AUGUSTA	9661	119	42.7	34.8	12.2	7.5	23	38	55	0.69	69	3128	38006*	
GARST	8292YG1	118	42.9	30.4	10.6	7.7	23	38	57	0.69	70	3181	33857	
DOEBLERS	877VRR	123	43.4	32.3	11.3	8.2	21	36	57	0.70	70	3201	36329	
SOUTHERN STATES	842RR	118	43.6	32.0	11.2	8.0	24	39	57	0.69	69	3137	35059	
<b>Site Average:</b>		41.6	32.1	11.3	7.8	24	40	54	0.68	69	3084	32558		
<b>CV:</b>		14.1	14.1	5.1	14	11	5	261	2	5	5	16		
<b>LSD (0.10):</b>		5.3	1.9	0.5	2	5	3	0.02	2	172	6594			

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

\*An asterisk indicates number is not statistically different from the highest value in that column (i.e. within one LSD of the top performer). Shading indicates hybrids with milk per acre values not significantly different from the highest value in that column.

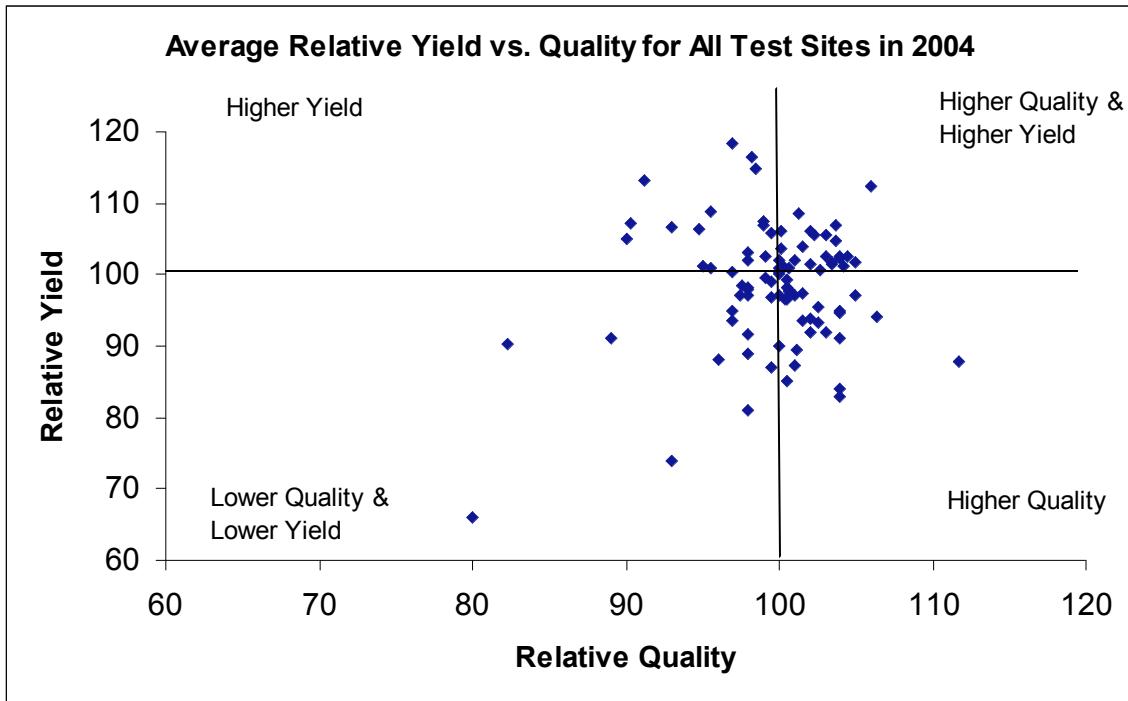
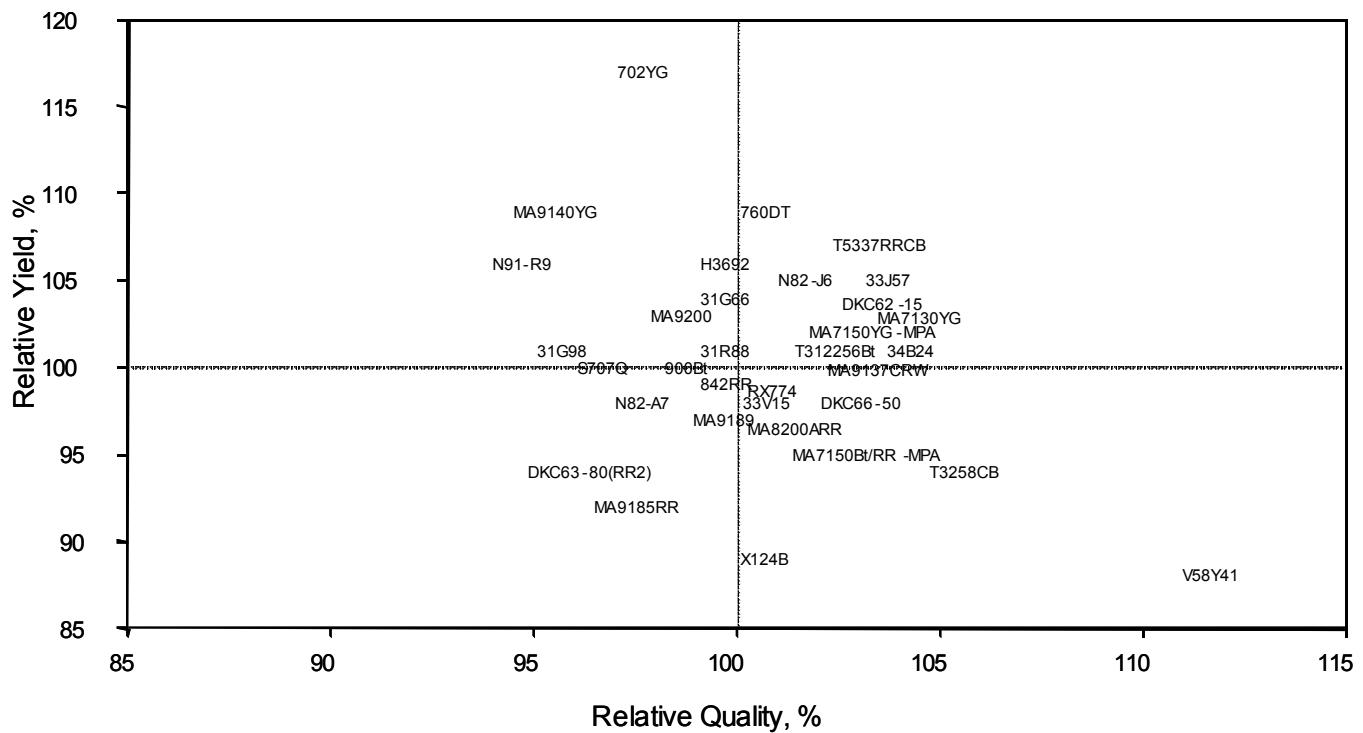
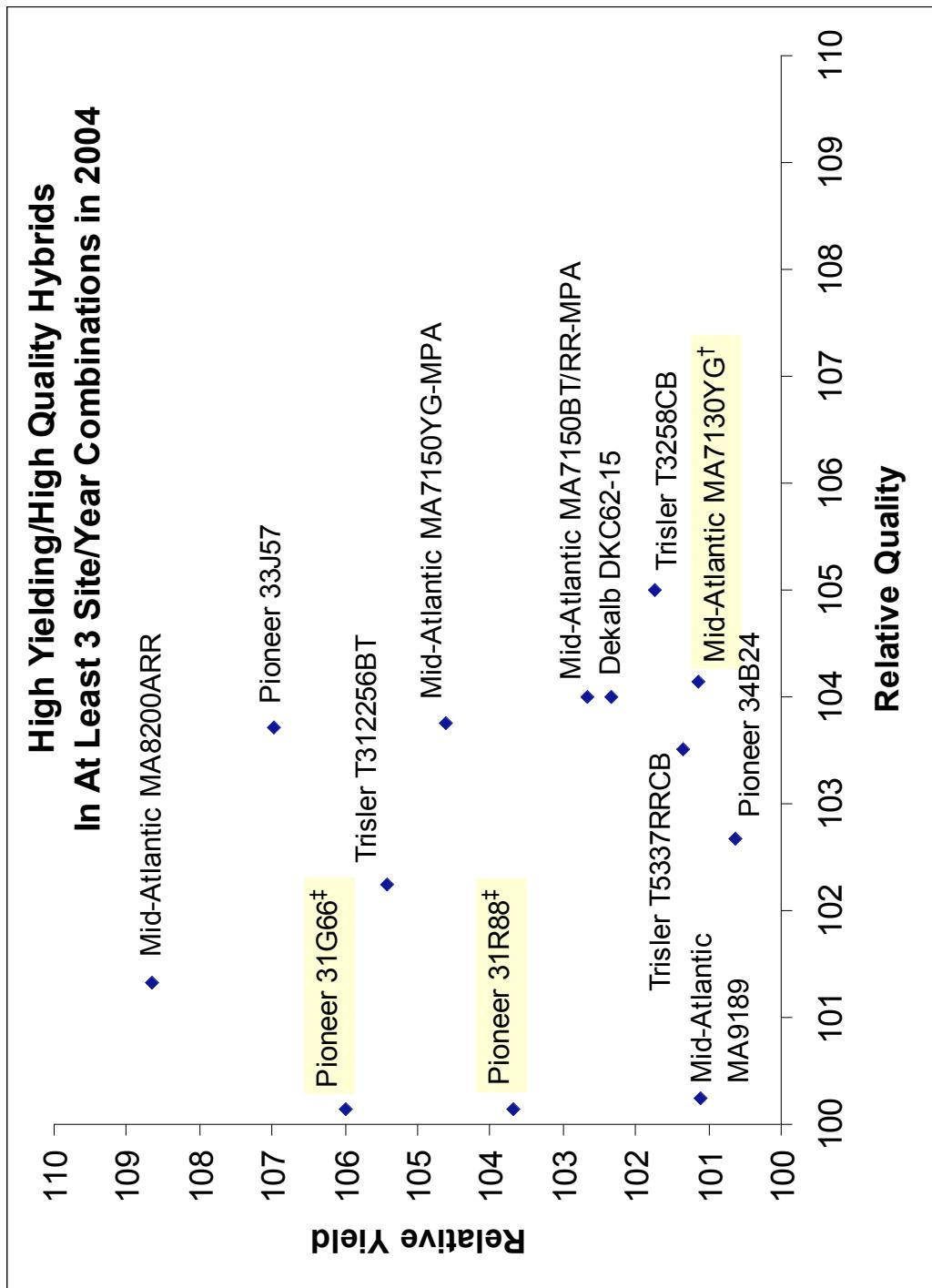


Figure 1. Average relative yield versus quality for all test sites in 2004



Symbol	Company	Symbol	Company	Symbol	Company
702YG	ASGROW	MA9140YG	MID-ATLANTIC	31G66	PIONEER BRAND
RX774	ASGROW	MA9185RR	MID-ATLANTIC	31R88	PIONEER BRAND
9561	AUGUSTA	MA9200	MID-ATLANTIC	33V15	PIONEER BRAND
DKC69-71(RR2/YGCB)	DEKALB	MA9189	MID-ATLANTIC	34B24	PIONEER BRAND
DKC63-80(RR2)	DEKALB	MA8200ARR	MID-ATLANTIC	33J57	PIONEER BRAND
DKC63-81(RR2/YGCB)	DEKALB	MA7150YG-MPA	MID-ATLANTIC	X124B	SEED CONSULTANTS
DKC66-50	DEKALB	MA7150Bt/RR-MPA	MID-ATLANTIC	900Bt	SOUTHERN STATES
DKC64-11(RR2/YGCB)	DEKALB	MA9137CRW	MID-ATLANTIC	842RR	SOUTHERN STATES
DKC62-15	DEKALB	MA7130YG	MID-ATLANTIC	T312256Bt	TRISLER BY AUGUSTA
S707Q	DOEBLERS	N91-R9	NK	T5337RRCB	TRISLER BY AUGUSTA
760DT	DOEBLERS	N82-A7	NK	T3258CB	TRISLER BY AUGUSTA
H3692	HUBNER	N82-J6	NK	BMR101	VATECH
		31G98	PIONEER BRAND	V58Y41	VIGORO

Figure 2. Average relative yield versus quality for hybrids appearing in at least 3 site/year combinations in 2004



<sup>†</sup>Indicates the hybrid that was a significantly high performer in at least three site/year combinations for both yield and quality

<sup>#</sup>Indicates the hybrids that were significantly high performers in at least three site/year combinations for yield only

Figure 3. High yielding/high quality hybrids in at least 3 site/year combinations in 2004