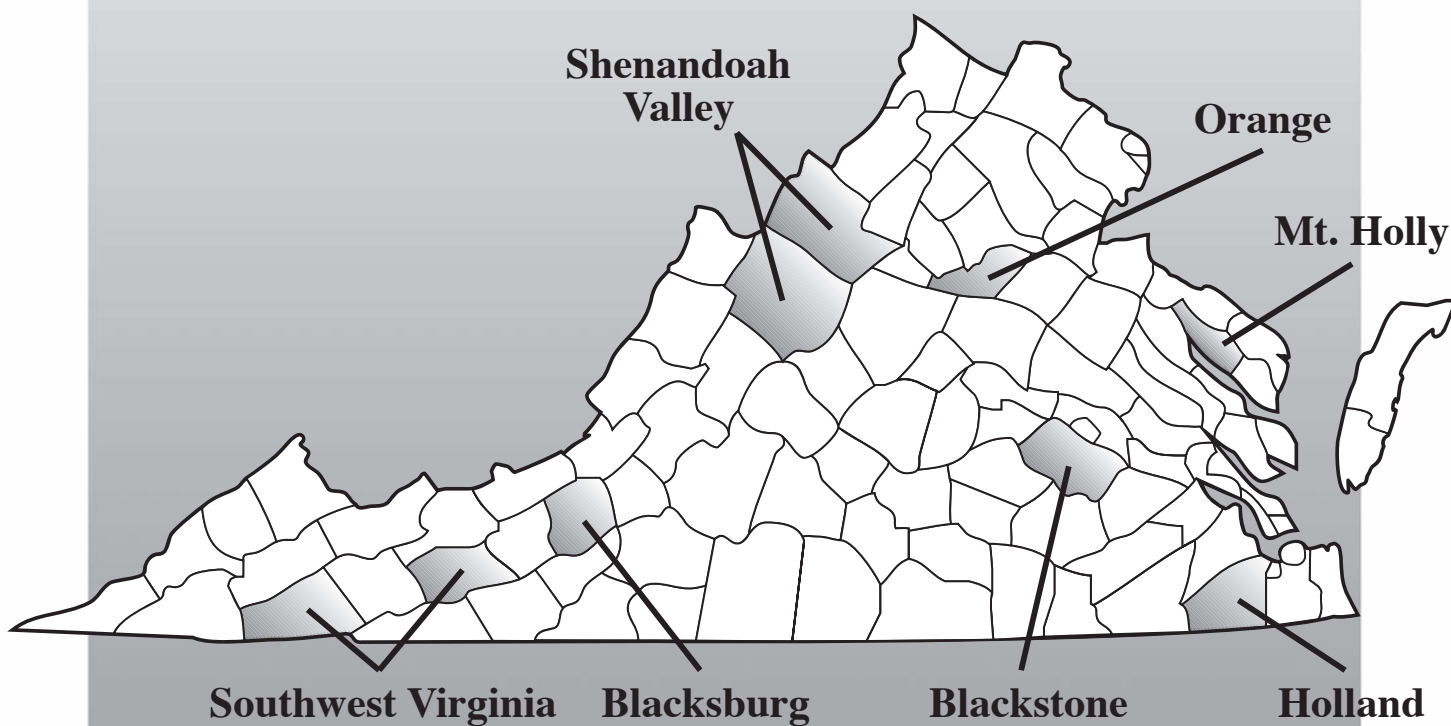


# Virginia Corn Hybrid & Management Trials 2005



VIRGINIA POLYTECHNIC INSTITUTE  
AND STATE UNIVERSITY

Virginia Cooperative Extension

*Knowledge for the Commonwealth*



VIRGINIA STATE UNIVERSITY

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## COMPANIES PARTICIPATING IN THE 2005 CORN HYBRID TRIALS

Company	Brand	Address
AUGUSTA SEED CORP.	AUGUSTA	473 TISDALE FARM LANE STAUNTON, VA 24401
BIO GENE SEEDS	BIO GENE	5477 TRI COUNTY HWY SARDINIA, OH 45171
DOEBLERS INC.	DOEBLERS	202 TIADAGHTON AVE JERSEY SHORE, PA 17740
MID-ATLANTIC SEEDS	MID-ATLANTIC	204 ST CHARLES WAY #163 YORK, PA 17403
MONSANTO	DEKALB & ASGROW	800 N LINDBERGH BLVD ST LOUIS, MO 63167
NK BRAND	NK BRAND	144 MAIN ST LANDISVILLE, PA 17543
PIONEER, A DUPONT CO.	PIONEER	7501 MEMORIAL PKWY, SUITE 205 HUNTSVILLE, AL 35802
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
T.A. SEEDS	T.A. SEEDS	PO BOX 300 AVIS, PA 17721
UNISOUTH GENETICS	FARMERS BEST (FB)	2640-C NOLENSVILLE RD NASHVILLE, TN 37211

### VIRGINIA CORN HYBRID TRIALS IN 2005

Coordinated by Wade Thomason, Harry Behl, and Elizabeth Rucker  
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Virginia Tech, Blacksburg, VA

Other contributors: Bobby Ashburn, Bruce Beahm, Phil Blevins,  
Steve Gulick, Alvin Hood, Brian Jones, Ned Jones, Dave Starner, Jon Wooge

### GRAY LEAF SPOT DISEASE PROJECT IN 2005

Coordinated by Erik Stromberg, Claude Kenley, and Jon Wooge

Performance trials of commercial corn hybrids were conducted at seven locations in Virginia in 2005. The Mt. Holly location consisted of an irrigated and a non-irrigated test. Test weights, grain moisture, and plot grain weights were measured with a GrainGauge® manufactured by HarvestMaster and calibrated over nine years of testing. A list of the companies participating in the trials is shown in the above table. All hybrids entered in the Virginia trials were those submitted by commercial companies. The locations at which particular hybrids were entered were specified by the company. Companies entering hybrids were charged a fee for each hybrid per location to support the Corn Performance Trials.

All locations except Orange were planted with a Wintersteiger PlotKing 2600. Orange was planted by hand and thinned to the desired population. All locations except Orange were harvested with a Massey-Ferguson 8XP plot combine. Orange was hand-harvested and shelled to obtain grain weights. Yields have been adjusted to 15.5% moisture.

### 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 (.05) (least significant difference with 95% confidence). Differences less than the LSD are assumed not to be real differences with 95% confidence.

### Understanding Relative Yield

Companies entering hybrids decide which hybrids are planted at which locations. 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% of above the average yield for all hybrids at that site.

### **Choice of Hybrids**

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

### **2005 Growing Season**

Cool temperatures in early April slowed corn planting in most regions, but producers moved rapidly as temperatures warmed later in the month. By May 1, 54% of the crop was planted, 2% ahead of the 5-yr average. Dry conditions prevailed through the early season in some areas of the state. Cool temperatures and lack of rainfall resulted in delayed silking in much of the corn crop, in fact on July 3, the percent corn silked was 12% behind the long-term average. Tropical storm Cindy brought rain to much of the state in early July and provided much needed moisture to the corn crop at the critical silking stage. Most of the state was 2-4 degrees warmer than the long-term average from July 1 to the end of September. Combined with a lack of rainfall in August and September, this led to quicker grain dry-down and earlier harvest in many areas. The ideally timed and relatively widespread rain in July along with sporadic rain events associated with thunderstorms allowed average grain yields across the Commonwealth to reach a predicted 124 bushels per acre. This was slightly above the 5-yr average of 120 bushels per acre.

## 2005 VIRGINIA CORN HYBRID PLOT INFORMATION

(Rates are on a per acre basis.)

<b>Blacksburg</b>	<b>Whitethorne Farm</b>	<b>Planted:</b>	April 19, 2005
<b>Land Prep:</b>	Ripped with subsoiler, moldboard plowed; disked twice.	<b>Harvested:</b>	September 28, 2005
<b>Planted:</b>	May 9, 2005	<b>Pesticide:</b>	5.5 pt Lumax® + 1 qt atrazine preplant incorporated; 4.5 lb Force 3G® at planting.
<b>Harvested:</b>	October 5, 2005	<b>Fertilizer:</b>	60-60-75 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 55 lb N and 7 lb S June 8 with .5" water, 80 lb N and 10 lb S June 21 with .5" water
<b>Pesticide:</b>	2 qt Bicep II Magnum® + 1 lb Simazine® 90DF + 1 oz Python® WDG May 1, 2005; 4.5 lb Force 3G® at planting; 6 oz Banvel® + 2/3 oz Permit® June 16, 2005.	<b>Irrigation:</b>	0.5" June 8 0.5" June 14 0.5" June 20 0.5" June 23 0.7" July 14 1.0" July 17 1.0" July 25 1.0" August 3
<b>Fertilizer:</b>	60-60-60 preplant incorporated May 2, 2005; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 54 lb N sidedressed June 21, 2005.	<b>Plot Size:</b>	2 rows 25' x 30" 4 replications
<b>Plot Size:</b>	2 rows 25' x 30" 4 replications	<b>Soil Type:</b>	Hayter
<b>Soil Type:</b>	Hayter	<b>Cooperator:</b>	J. Wooge
<b>Cooperator:</b>	J. Wooge		
<b>Blackstone</b>	<b>Southern Piedmont Agricultural Research &amp; Extension Center</b>	<b>Planted:</b>	April 20, 2005
<b>Planted:</b>	April 20, 2005	<b>Harvested:</b>	September 15, 2005
<b>Harvested:</b>	September 15, 2005	<b>Pesticide:</b>	4.5 lb Force 3G® at planting; 1.5 pt Dual II Magnum® + 7 oz Callisto® April 21, 2005.
<b>Pesticide:</b>	4.5 lb Force 3G® at planting; 1.5 pt Dual II Magnum® + 7 oz Callisto® April 21, 2005.	<b>Fertilizer:</b>	100-100-100 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 65 lb N June 7, 2005.
<b>Fertilizer:</b>	100-100-100 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 65 lb N June 7, 2005.	<b>Irrigation:</b>	1" June 17 1" July 6
<b>Irrigation:</b>	1" June 17 1" July 6	<b>Plot Size:</b>	2 rows 25' x 30" 4 replications
<b>Plot Size:</b>	2 rows 25' x 30" 4 replications	<b>Soil Type:</b>	Spotsylvania-Cecil-Bourne sandy loam
<b>Soil Type:</b>	Spotsylvania-Cecil-Bourne sandy loam	<b>Cooperator:</b>	Ned Jones
<b>Cooperator:</b>	Ned Jones		
<b>Holland</b>	<b>Tidewater Agricultural Research &amp; Extension Center</b>	<b>Planted:</b>	April 20, 2005
<b>Land Prep:</b>	Disked April 15, rip-strip-tilled April 16, land-conditioned April 17	<b>Harvested:</b>	September 12, 2005
<b>Planted:</b>	April 20, 2005	<b>Pesticide:</b>	3 pt Guardsman® preplant incorporated April 17, 2005 + 4.5 lb Force 3G® at planting.
<b>Harvested:</b>	September 12, 2005	<b>Insecticide:</b>	8 lb Lorsban® April 20, 2005
<b>Pesticide:</b>	3 pt Guardsman® preplant incorporated April 17, 2005 + 4.5 lb Force 3G® at planting.	<b>Fertilizer:</b>	1000 lb lime + 300 lb 6-16-39 April 5, 2005; 60 units N April 17, 2005; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 90 units N using UAN sidedressed June 7, 2005
<b>Insecticide:</b>	8 lb Lorsban® April 20, 2005	<b>Plot Size:</b>	2 rows 35' x 30" 4 replications
<b>Fertilizer:</b>	1000 lb lime + 300 lb 6-16-39 April 5, 2005; 60 units N April 17, 2005; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 90 units N using UAN sidedressed June 7, 2005	<b>Soil Type:</b>	Uchee, Nansemond, and Eunola
<b>Plot Size:</b>	2 rows 35' x 30" 4 replications	<b>Cooperator:</b>	Bobby Ashburn
<b>Soil Type:</b>	Uchee, Nansemond, and Eunola		
<b>Cooperator:</b>	Bobby Ashburn		
<b>Mt Holly (dry)</b>	<b>Virginia Crop Improvement Association Farm</b>	<b>Planted:</b>	April 12-13, 2005
<b>Planted:</b>	April 12-13, 2005	<b>Harvested:</b>	September 19, 2005
<b>Harvested:</b>	September 19, 2005	<b>Pesticide:</b>	2 qt Bicep II Magnum® + 1 qt Princep® + gramoxone for burndown; 4.5 lb Force 3G® at planting.
<b>Pesticide:</b>	2 qt Bicep II Magnum® + 1 qt Princep® + gramoxone for burndown; 4.5 lb Force 3G® at planting.	<b>Fertilizer:</b>	60-40-60 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 70 lb N + 9 lb S sidedressed May 31, 2005.
<b>Fertilizer:</b>	60-40-60 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 70 lb N + 9 lb S sidedressed May 31, 2005.	<b>Plot Size:</b>	2 rows 25' x 30" 4 replications
<b>Plot Size:</b>	2 rows 25' x 30" 4 replications	<b>Soil Type:</b>	State fine sandy loam
<b>Soil Type:</b>	State fine sandy loam	<b>Cooperator:</b>	Bruce Beahm
<b>Cooperator:</b>	Bruce Beahm		
<b>Mt Holly (irr)</b>	<b>Virginia Crop Improvement Association Farm</b>	<b>Planted:</b>	April 19, 2005
		<b>Harvested:</b>	September 28, 2005
		<b>Pesticide:</b>	5.5 pt Lumax® + 1 qt atrazine preplant incorporated; 4.5 lb Force 3G® at planting.
		<b>Fertilizer:</b>	60-60-75 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 55 lb N and 7 lb S June 8 with .5" water, 80 lb N and 10 lb S June 21 with .5" water
		<b>Irrigation:</b>	0.5" June 8 0.5" June 14 0.5" June 20 0.5" June 23 0.7" July 14 1.0" July 17 1.0" July 25 1.0" August 3
		<b>Plot Size:</b>	2 rows 25' x 30" 4 replications
		<b>Soil Type:</b>	State fine sandy loam
		<b>Cooperator:</b>	Bruce Beahm
		<b>Orange</b>	<b>Northern Piedmont Agricultural Research &amp; Extension Center</b>
		<b>Planted:</b>	May 6, 2005
		<b>Harvested:</b>	October 31, 2005
		<b>Pesticide:</b>	2.5 qt Lumax® preplant incorporated May 5, 2005.
		<b>Fertilizer:</b>	123-66-0 preplant incorporated May 5, 2005; 100 lb N sidedressed June 17, 2005.
		<b>Plot Size:</b>	1 row 30' x 30" 4 replications
		<b>Soil Type:</b>	Davidson silty clay loam
		<b>Cooperators:</b>	D. E. Starner, S. A. Gulick, and W. A. Hood
		<b>Washington County (Thanks to Johnny Robinson)</b>	
		<b>Planted:</b>	May 11, 2005
		<b>Replanted:</b>	June 6, 2005
		<b>Harvested:</b>	November 17, 2005
		<b>Pesticide:</b>	2 qt Touchdown® + 1 pt 2,4-D + 3 qt Lumax® + 1 qt atrazine; 4.5 lb Force 3G® at planting.
		<b>Insecticide:</b>	2.5 oz Warrior®
		<b>Fertilizer:</b>	160-35-240 + 2 tons lime preplant; 17 gal 20-10-0-2S-.83B-.33Zn at planting
		<b>Plot Size:</b>	2 rows 25' x 30" 4 replications
		<b>Soil Type:</b>	Monongahela fine sandy loam
		<b>Cooperators:</b>	Phil Blevins and Johnny Robinson
		<b>Shenandoah Valley (Augusta County - Thanks to Kevin Phillips and North Point Farm)</b>	
		<b>Planted:</b>	April 29, 2005
		<b>Harvested:</b>	November 14, 2005
		<b>Pesticide:</b>	1.3 qt Unison® 2,4-D + 1 qt Aatrex® + 3 qt Lumax® + 1 qt Princep® + 0.5 qt spreader + 4.5 lb Force 3G® at planting
		<b>Fertilizer:</b>	17 gal 20-10-0-2S-.83B-.33Zn at planting; 75 units N sidedressed.
		<b>Plot Size:</b>	2 rows 25' x 30" 4 replications
		<b>Soil Type:</b>	Frederick-Christian silt loam
		<b>Cooperators:</b>	Brian Jones and Kevin Phillips

*Appreciation is expressed to the Virginia Corn Check-Off Board for financial support of this research and the Virginia Extension corn program.*

**Table 1. 2005 RELATIVE YIELD\* of corn hybrids entered in three or more locations - Virginia Tech Trials.**

≤107 Days Rel. Maturity		IST <sup>1</sup>	DTM per Co. <sup>3</sup>	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washingtongton	Mean
Brand/Company	Hybrid	GT <sup>2</sup>										
TRISLER BY AUGUSTA	T5160CB	PL, CB	105	---	109	106	---	120	---	---	---	112
TRISLER BY AUGUSTA	T5244RRBt	PL, CB+RR	107	110	108	112	---	---	---	---	---	110
TRISLER BY AUGUSTA	T5244RR	PL, RR	107	107	112	105	---	---	---	---	---	108
ASGROW	RX668RR2YGCB	PL, CB+RR	107	---	111	112	106	87	110	---	---	105
AUGUSTA	A3387	PL	107	105	101	103	---	---	---	---	---	103
DEKALB	DKC57-84(YGCB)	PL, CB	107	---	97	114	110	91	97	---	---	101
TRISLER BY AUGUSTA	T03-84CB	PL, CB	106	102	102	87	---	109	---	---	---	100
TRISLER BY AUGUSTA	T2744RRCB	PL, CB+RR	103	97	105	96	---	---	---	---	---	99
TRISLER BY AUGUSTA	T05-126CB	PL, CB	104	91	95	95	---	---	---	---	---	94
AUGUSTA	A05-112	PL	104	---	98	92	---	83	---	---	---	91
DOEBLERS	575XB	PL, CB	106	88	93	80	98	68	89	96	80	86
DOEBLERS	494RYG	PL, CB+RR	100	83	87	78	---	84	---	---	---	83
TRISLER BY AUGUSTA	T05-125CRW	PL, RW	103	---	90	82	---	78	---	---	---	83
108-111 Days Rel. Maturity		IST <sup>1</sup>	DTM per Co. <sup>3</sup>	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washingtongton	Mean
Brand/Company	Hybrid	GT <sup>2</sup>										
NK BRAND SEEDS	N65-C5	C, CB+LL	109	109	113	110	---	119	113	102	---	111
TRISLER BY AUGUSTA	T5257RRCB	PL, CB+RR	111	108	116	101	---	100	---	---	---	107
TRISLER BY AUGUSTA	T5255RRCB	PL, CB+RR	109	96	104	117	---	---	---	---	---	106
DEKALB	DKC61-45(RR2YGCB)	PL, CB+RR	111	95	104	102	111	95	116	---	---	104
MGORO	V50Y51	C, CB	110	105	96	107	---	104	---	---	---	103
DEKALB	DKC61-72(RR2)	PL, RR	111	95	107	115	103	79	118	---	---	103
MGORO	V52Y41	C, CB	111	99	107	106	---	99	---	---	---	103
TRISLER BY AUGUSTA	T5231Bt	PL, CB	108	106	97	105	---	---	---	---	---	102
FB	649	C	109	100	110	102	105	---	98	96	---	102
DOEBLERS	648RYG	PL, CB+RR	111	105	106	105	111	91	102	100	96	102
TRISLER BY AUGUSTA	T5253Bt	PL, CB	108	107	95	102	---	---	---	---	---	101
TRISLER BY AUGUSTA	T5240CB	PL, CB	108	107	110	99	---	98	86	---	---	101
T.A SEEDS	TA5753	PL, CB	109	---	96	98	---	102	108	---	---	101
TRISLER BY AUGUSTA	T5257CB	PL, CB	111	---	110	94	---	99	---	---	---	101
MID-ATLANTIC SEED	MA9114	PL	111	92	101	106	---	104	102	---	---	101
TRISLER BY AUGUSTA	T03-11CB	PL, CB	108	93	95	110	---	---	---	---	---	99
AUGUSTA	A04-115	PL	109	---	93	103	---	101	---	---	---	99
MGORO	V5160	C	111	---	96	105	---	85	---	---	---	95
PIONEER BRAND	34B99	PL, HX	110	79	102	104	---	86	96	93	---	93
NK BRAND SEEDS	N69-P9	C	110	67	103	98	---	86	97	94	---	91

Table 1, cont inued. 2005 RELATIVE YIELD\* of corn hybrids entered in three or more locations - Virginia Tech Trials.

112-115 Days Rel. Maturity		Hybrid	IST <sup>1</sup>	DTM per Co. <sup>3</sup>	Holland	Mt Holly		Blackstone	Orange	Augusta	Blacksburg	Washingtongton	Mean
Brand/Company	Co. <sup>3</sup>					Dryland	Irrigated						
TRISLER BY AUGUSTA	113	T03-19CB	PL, CB	108	---	---	---	122	102	---	---	---	111
TRISLER BY AUGUSTA	113	T5337RRCB	PL, CB+RR	101	107	108	108	120	---	---	108	---	109
MID-ATLANTIC SEED	114	MA7150B+CRW/RR	PL, RW+RR	107	99	102	102	123	103	---	---	---	107
SOUTHERN STATES	115	746RR/YGCB	PH, CB+RR	---	98	104	103	122	111	---	---	---	107
DEKALB	113	DKC63-81(RR2/YGCB)	PL, CB+RR	---	106	90	107	119	109	---	---	---	106
VGORO	114	V54Y61	PL, CB	---	110	100	---	104	---	---	---	---	106
MID-ATLANTIC SEED	114	MA7150YG	PL, CB	109	101	102	103	108	99	---	---	---	104
T.A SEEDS	114	TA6993	PL, CB	---	109	99	---	107	99	---	---	---	103
T.A SEEDS	114	TA6821	PL, CB	---	99	99	---	106	106	---	---	---	103
PIONEER BRAND	114	33V15	PL	102	111	104	101	105	102	---	---	99	103
TRISLER BY AUGUSTA	115	T5338CB	PL, CB	---	106	107	---	113	93	---	87	109	103
AUGUSTA	114	A04-79	PL	---	95	101	---	110	---	---	---	---	102
SEED CONSULTANTS	115	SC11B55	C, CB	---	101	98	---	---	108	---	---	---	102
SEED CONSULTANTS	114	SC11B40	C, CB	---	94	91	---	---	117	---	---	---	101
MID-ATLANTIC SEED	114	MA9152	PL	101	97	102	104	99	100	---	---	---	101
TRISLER BY AUGUSTA	113	T5337CB	PL, CB	98	97	94	---	111	100	---	---	---	100
AUGUSTA	113	A5337	PL	103	103	96	---	---	---	---	---	---	100
PIONEER BRAND	114	33V64	PL	103	103	107	---	91	98	---	---	---	100
VGORO	115	V56Y51	C, CB	99	105	97	94	100	102	---	---	105	100
NK BRAND SEEDS	112	N72-G8	C	93	102	105	---	86	109	---	100	---	99
SOUTHERN STATES	113	692Bt	PH, CB	---	97	97	103	101	91	---	---	---	98
MID-ATLANTIC SEED	112	MA9123	PL	99	96	105	---	95	100	---	87	---	97
SEED CONSULTANTS	114	SC11B45	C, CB	---	102	84	---	---	106	---	---	---	97
VGORO	112	V53Y41	C, CB	---	91	93	---	103	---	---	---	---	96
PIONEER BRAND	114	33H25	PL	94	106	102	102	85	99	---	89	91	96
FB	113	854	C	100	91	100	82	---	99	---	98	---	95
TRISLER BY AUGUSTA	115	T04-69CB	PL, CB	95	89	83	---	111	---	---	---	---	94
SEED CONSULTANTS	114	SC11B46	C, CB	---	96	91	---	---	91	---	---	---	92
TRISLER BY AUGUSTA	115	T5340Bt	PL, CB	95	85	95	---	---	---	---	---	---	92
DOEBLERS	114	749XYG	PL, CB	94	89	86	86	98	85	---	87	92	90

Table 1, cont inued. 2005 RELATIVE YIELD\* of corn hybrids entered in three or more locations - Virginia Tech Trials.

≥116 Days Rel. Maturity		IST <sup>1</sup>	DTM per Co. <sup>3</sup>	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washingt	Mean
Brand/Company	Hybrid	GT <sup>2</sup>										
FB	904	C	117	109	107	114	104	---	111	109	---	109
PIONEER BRAND	31G68	PL,CB	118	98	104	113	97	122	112	118	114	109
SEED CONSULTANTS	SC11H76	C,CB	117	---	114	111	---	---	99	---	---	108
TRISLER BY AUGUSTA	T04-105RR	PL,RR	118	---	104	109	---	110	---	---	---	107
DEKALB	DKC69-71(RR2/YGCB)	PL,CB+RR	119	116	106	113	96	101	91	---	---	104
DEKALB	DKC66-21(YGCB)	PL,CB	116	102	95	102	109	104	107	---	---	103
MGORO	V58Y41	C,CB	117	109	102	92	108	101	98	---	112	103
NK BRAND SEEDS	N82-A7	C,CB+LL	116	102	105	102	---	107	104	95	---	102
TRISLER BY AUGUSTA	T05-25RR	PL,RR	118	---	97	104	---	104	---	---	---	102
TRISLER BY AUGUSTA	T04-103CB	PL,CB	119	---	---	---	---	110	92	104	---	102
SOUTHERN STATES	842RR2/YGCB	PH,CB+RR	119	---	104	99	94	100	108	---	---	101
DOEBLERS	761BDT	PL,CB	116	102	98	97	87	88	110	110	107	100
TRISLER BY AUGUSTA	T04-104RR	PL,RR	119	---	---	---	---	101	87	117	---	100
TRISLER BY AUGUSTA	T04-51RR	PL,RR	119	---	---	---	---	103	92	104	101	100
SEED CONSULTANTS	SC1165	C	116	---	100	95	---	---	102	---	---	99
T.A SEEDS	TA780-13	PL,CB+RW+RR	119	---	102	96	---	109	89	---	---	99
AUGUSTA	A9561	PL	119	---	---	---	---	100	---	106	93	99
PIONEER BRAND	31G98	PL	117	102	96	103	---	98	93	---	---	98
TRISLER BY AUGUSTA	T04-94CB	PL,CB	119	98	88	98	---	110	95	100	100	98
TRISLER BY AUGUSTA	T05-102	PL	118	92	97	100	---	86	110	---	---	97
TRISLER BY AUGUSTA	T05-23RR	PL,RR	119	---	---	---	---	87	91	110	---	96
T.A SEEDS	X12771	PL,CB	116	---	94	94	---	89	104	---	---	95
DOEBLERS	784XYG	PL,CB	117	97	78	88	86	94	83	98	92	90
T.A SEEDS	X11406	PL,CB	117	---	92	95	---	86	75	---	---	87

\* Relative yield is calculated by dividing the yield of a hybrid by the average yield of all hybrids of all maturities at that location. A hybrid with a relative yield of 105 was 5% above the average of all hybrids at that location. The value of 105 is not a yield but a value relative to all other yield values at that location. Relative yields are listed in order of descending mean values.

<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®.

<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>3</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies.



**Table 2. Two Year Average RELATIVE YIELD\* (2004-2005) of corn hybrids entered in three or more locations each year <sup>1</sup> - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
TRISLER BY AUGUSTA	T5244RRBt	CB+RR	107	21	105
TRISLER BY AUGUSTA	T5244RR	RR	107	22	104
AUGUSTA	A3387		107	22	99
TRISLER BY AUGUSTA	T5160CB	CB	105	23	94
DEKALB	DKC57-84(YGCB)	CB	107	34	94
TRISLER BY AUGUSTA	T03-84CB	CB	106	27	93
<b>108-111 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
TRISLER BY AUGUSTA	T5255RRCB	CB+RR	109	22	102
VIGORO	V52Y41	CB	111	31	102
DOEBLERS	648RYG	CB+RR	111	59	99
TRISLER BY AUGUSTA	T5253Bt	CB	108	23	98
TRISLER BY AUGUSTA	T03-11CB	CB	108	21	97
<b>112-115 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
TRISLER BY AUGUSTA	T5337RRCB	CB+RR	113	41	109
TRISLER BY AUGUSTA	T5337CB	CB	113	39	105
PIONEER BRAND	33M54		114	43	104
SEED CONSULTANTS	SC11B55	CB	115	22	104
PIONEER BRAND	33V15		114	59	102
SEED CONSULTANTS	SC11B45	CB	114	24	101
AUGUSTA	A5337		113	24	100
DEKALB	DKC63-81(RR2/YGCB)	CB+RR	113	34	98
TRISLER BY AUGUSTA	T03-19CB	CB	113	27	98
TRISLER BY AUGUSTA	T5340Bt	CB	115	23	98
VIGORO	V53Y41	CB	112	24	94
TRISLER BY AUGUSTA	T5338CB	CB	115	35	93
SOUTHERN STATES	692Bt	CB	113	38	92
TRISLER BY AUGUSTA	T04-69CB	CB	115	28	91
<b>≥116 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
PIONEER BRAND	31G98		117	44	101
VIGORO	V58Y41	CB	117	52	100
NK BRAND SEEDS	N82-A7	CB+LL	116	40	94
DOEBLERS	784XYG	CB	117	60	94
TRISLER BY AUGUSTA	T04-94CB	CB	119	43	94
TRISLER BY AUGUSTA	T04-104RR	RR	119	23	93
AUGUSTA	A9561		119	23	91

<sup>1</sup> Relative yield is calculated by dividing the yield of a hybrid by the average yield of all hybrids of all maturities at that location. A hybrid with a relative yield of 105 was 5% above the average of all hybrids at that location. The value of 105 is not a yield but a value relative to all other yield values at that location. Relative yields are listed in order of descending mean values. A hybrid did not have to be entered in the same three locations each year to appear in this table.

<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt rootworm, RR=Roundup® Ready, LL=Liberty Link®.

<sup>3</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

**Table 3. Three Year Average RELATIVE YIELD <sup>1</sup> (2003-2005) of corn hybrids entered in three or more locations each year <sup>1</sup> - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
DEKALB	DKC57-84(YGCB)	CB	107	48	94
TRISLER BY AUGUSTA	T5244RR	RR	107	34	99
AUGUSTA	A3387		107	34	97
<b>108-111 Days Rel. Maturity</b>					
<b>108-111 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
TRISLER BY AUGUSTA	T5253Bt	CB	108	35	96
VIGORO	V52Y41	CB	111	47	102
<b>112-115 Days Rel. Maturity</b>					
<b>112-115 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
TRISLER BY AUGUSTA	T03-19CB	CB	113	38	94
TRISLER BY AUGUSTA	T5337CB	CB	113	51	102
AUGUSTA	A5337		113	35	98
SOUTHERN STATES	692Bt	CB	113	50	92
PIONEER BRAND	33V15		114	91	99
PIONEER BRAND	33M54		114	58	103
TRISLER BY AUGUSTA	T5340Bt	CB	115	35	99
<b>≥116 Days Rel. Maturity</b>					
<b>≥116 Days Rel. Maturity</b>		<b>GT<sup>2</sup></b>	<b>DTM per Co.<sup>3</sup></b>	<b># Observations</b>	<b>Relative Yield</b>
<b>Brand/Company</b>	<b>Hybrid</b>				
NK BRAND SEEDS	N82-A7	CB+LL	116	60	97
VIGORO	V58Y41	CB	117	79	102
PIONEER BRAND	31G98		117	72	104

<sup>1</sup> Relative yield is calculated by dividing the yield of a hybrid by the average yield of all hybrids of all maturities at that location. A hybrid with a relative yield of 105 was 5% above the average of all hybrids at that location. The value of 105 is not a yield but a value relative to all other yield values at that location. Relative yields are listed in order of descending mean values. A hybrid did not have to be entered in the same three locations each year to appear in this table.

<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt rootworm,

RR=Roundup® Ready, LL=Liberty Link®.

<sup>3</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.





**Table 5. Two-year average corn yields at the Tidewater AREC at HOLLAND, VA in 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5244RRBt	CB+RR	107	176	21.9	54.3
TRISLER BY AUGUSTA	T5244RR	RR	107	168	20.9	54.2
TRISLER BY AUGUSTA	T03-84CB	CB	106	167	21.2	55.1
AUGUSTA	A3387		107	166	20.3	54.5
		Maturity Average		169	21.1	54.5
		C.V.		5	4.2	1.6
		L.S.D. (0.05)		10	1.0	0.9
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5253Bt	CB	108	172	23.0	54.4
VIGORO	V52Y41	CB	111	168	21.1	55.3
TRISLER BY AUGUSTA	T03-11CB	CB	108	162	23.3	57.4
DOEBLERS	648RYG	CB+RR	111	161	21.9	54.2
TRISLER BY AUGUSTA	T5255RRCB	CB+RR	109	159	23.0	54.3
DEKALB	DKC60-19(RR2/YGCB)	CB+RR	110	157	21.5	56.1
		Maturity Average		163	22.2	55.3
		C.V.		9	5.5	1.5
		L.S.D. (0.05)		15	1.3	0.8
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T03-19CB	CB	113	174	23.8	54.3
TRISLER BY AUGUSTA	T5337CB	CB	113	173	25.9	51.8
TRISLER BY AUGUSTA	T5337RRCB	CB+RR	113	166	24.7	53.1
AUGUSTA	A5337		113	163	23.3	53.6
PIONEER BRAND	33M54		114	163	23.4	57.7
TRISLER BY AUGUSTA	T5340Bt	CB	115	163	23.1	52.3
PIONEER BRAND	33V15		114	162	23.1	58.9
TRISLER BY AUGUSTA	T04-69CB	CB	115	156	23.6	52.8
		Maturity Average		165	23.8	54.3
		C.V.		7	4.9	1.3
		L.S.D. (0.05)		12	1.2	0.8
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
DEKALB	DKC69-71(RR2/YGCB)	CB+RR	119	181	26.3	54.6
VIGORO	V58Y41	CB	117	170	24.6	52.8
NK BRAND SEEDS	N82-A7	CB+LL	116	168	24.7	53.8
TRISLER BY AUGUSTA	T04-94CB	CB	119	167	26.2	57.4
PIONEER BRAND	31G98		117	164	24.2	55.1
DOEBLERS	784XYG	CB	117	164	25.1	52.3
		Maturity Average		169	25.2	54.3
		C.V.		6	4.3	1.3
		L.S.D. (0.05)		10	1.1	0.7
		Location Average		166	23.3	54.6

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>2</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 6. Three-year average corn yields at the Tidewater AREC at HOLLAND, VA in 2003, 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
TRISLER BY AUGUSTA	T5244RR	RR	107	175	20.3	54.2	
AUGUSTA	A3387		107	173	19.9	54.5	
				Maturity Average	174	20.1	54.4
				C.V.	5	3.1	1.5
				L.S.D. (0.05)	9	0.6	1.1
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
VIGORO	V52Y41	CB	111	178	20.8	55.3	
TRISLER BY AUGUSTA	T5253Bt	CB	108	177	23.0	54.4	
				Maturity Average	178	21.9	54.8
				C.V.	6	4.6	1.0
				L.S.D. (0.05)	10	0.9	0.7
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
TRISLER BY AUGUSTA	T5337CB	CB	113	190	25.0	51.8	
TRISLER BY AUGUSTA	T03-19CB	CB	113	185	23.2	54.3	
TRISLER BY AUGUSTA	T5340Bt	CB	115	176	22.8	52.3	
PIONEER BRAND	33M54		114	172	22.9	57.7	
PIONEER BRAND	33V15		114	169	22.2	58.9	
AUGUSTA	A5337		113	163	22.7	53.6	
				Maturity Average	176	23.1	54.8
				C.V.	10	3.7	1.2
				L.S.D. (0.05)	14	0.7	0.7
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
DEKALB	DKC69-71(RR2/YGCB)	CB+RR	119	195	25.7	54.6	
VIGORO	V58Y41	CB	117	185	24.3	52.8	
PIONEER BRAND	31G98		117	182	23.8	55.1	
NK BRAND SEEDS	N82-A7	CB+LL	116	175	24.0	53.8	
				Maturity Average	184	24.4	54.1
				C.V.	6	4.8	1.4
				L.S.D. (0.05)	9	1.0	0.8
				Location Average	178	22.9	54.5

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>2</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 7. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5244RR	PL,RR	107	193	22.4	57.3
ASGROW	RX668RR2/YGCB	PL,CB+RR	107	191	20.0	58.3
TRISLER BY AUGUSTA	T5160CB	PL,CB	105	186	22.3	57.5
TRISLER BY AUGUSTA	T5244RRBt	PL,CB+RR	107	185	22.8	56.9
TRISLER BY AUGUSTA	T2744RRCB	PL,CB+RR	103	180	20.8	58.6
TRISLER BY AUGUSTA	T03-84CB	PL,CB	106	175	21.4	57.3
AUGUSTA	A3387	PL	107	174	22.3	56.9
AUGUSTA	A05-112	PL	104	168	19.8	57.2
DEKALB	DKC57-84(YGCB)	PL,CB	107	167	20.6	58.7
TRISLER BY AUGUSTA	T05-126CB	PL,CB	104	163	20.8	56.8
DOEBLERS	575XB	PL,CB	106	160	19.8	58.3
TRISLER BY AUGUSTA	T05-125CRW	PL,RW	103	155	19.8	58.0
DOEBLERS	494RYG	PL,CB+RR	100	150	19.2	58.0
		Maturity Average		173	21.0	57.8
		C.V.		7	2.4	0.9
		L.S.D. (0.05)		18	0.7	0.7
<b>108-111 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5257RRCB	PL,CB+RR	111	199	24.1	56.7
NK BRAND SEEDS	N65-C5	C,CB+LL	109	194	23.1	57.3
FB	649	C	109	189	22.4	57.0
TRISLER BY AUGUSTA	T5257CB	PL,CB	111	189	23.8	56.1
TRISLER BY AUGUSTA	T5240CB	PL,CB	108	188	22.9	57.3
VIGORO	V52Y41	C,CB	111	184	22.8	56.9
DEKALB	DKC61-72(RR2)	PL,RR	111	183	21.9	57.2
DOEBLERS	648RYG	PL,CB+RR	111	182	23.0	56.8
TRISLER BY AUGUSTA	T5255RRCB	PL,CB+RR	109	179	23.0	56.2
DEKALB	DKC61-45(RR2/YGCB)	PL,CB+RR	111	179	21.8	59.1
NK BRAND SEEDS	N69-P9	C	110	177	22.6	58.8
PIONEER BRAND	34B99	PL,HX	110	175	20.5	60.3
MID-ATLANTIC SEED	MA9114	PL	111	173	21.2	60.1
TRISLER BY AUGUSTA	T5231Bt	PL,CB	108	167	22.6	58.2
VIGORO	V50Y51	C,CB	110	166	22.3	57.4
T.A. SEEDS	TA 5753	PL,CB+RR	109	165	20.7	57.6
VIGORO	V5160	C	111	165	20.4	57.5
TRISLER BY AUGUSTA	T03-11CB	PL,CB	108	164	24.7	57.5
TRISLER BY AUGUSTA	T5253Bt	PL,CB	108	162	24.0	55.5
AUGUSTA	A04-115	PL	109	160	21.8	59.8
		Maturity Average		177	22.4	57.7
		C.V.		7	3.9	1.0
		L.S.D. (0.05)		17	1.2	0.8





**Table 7, continued. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2005 - Virginia Tech Trials.**

≥116 Days Rel. Maturity, continued		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu
TRISLER BY AUGUSTA	T05-25RR	PL,RR	118	167	26.5	54.6
TRISLER BY AUGUSTA	T05-102	PL	118	166	23.1	58.5
PIONEER BRAND	31G98	PL	117	165	23.1	58.8
DEKALB	DKC66-21(YGCB)	PL,CB	116	164	25.3	57.0
T.A. SEEDS	X12771	PL,CB	116	161	25.0	55.3
T.A. SEEDS	X11406	PL,CB	117	158	23.3	56.2
TRISLER BY AUGUSTA	T04-94CB	PL,CB	119	152	26.1	59.2
DOEBLERS	784XYG	PL,CB	117	134	25.2	54.5
		Maturity Average		170	24.6	56.1
		C.V.		8	4.7	1.4
		L.S.D. (0.05)		19	1.6	1.1
		Location Average		172	23.1	57.0

<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®.

<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.

<sup>3</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>4</sup> Reported at 15.5% moisture. There was no lodging at this location.

**Table 8. Two-year average corn yields under DRYLAND conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>		<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5244RRBt	CB+RR	107	202	21.5	56.4
TRISLER BY AUGUSTA	T5244RR	RR	107	197	21.1	56.0
TRISLER BY AUGUSTA	T5160CB	CB	105	191	20.3	57.5
TRISLER BY AUGUSTA	T03-84CB	CB	106	186	21.4	56.3
DEKALB	DKC57-84(YGCB)	CB	107	185	19.8	58.4
AUGUSTA	A3387		107	176	21.0	55.7
			Maturity Average	189	20.9	56.7
			C.V.	8	2.7	1.2
			L.S.D. (0.05)	17	0.6	0.7
<b>108-111 Days Rel. Maturity</b>		<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
VIGORO	V52Y41	CB	111	199	21.9	55.8
TRISLER BY AUGUSTA	T5255RRCB	CB+RR	109	195	22.0	54.7
DOEBLERS	648RYG	CB+RR	111	190	22.1	55.7
TRISLER BY AUGUSTA	T03-11CB	CB	108	189	24.1	56.4
TRISLER BY AUGUSTA	T5253Bt	CB	108	180	23.3	54.4
			Maturity Average	190	22.6	55.4
			C.V.	7	3.3	1.2
			L.S.D. (0.05)	15	0.8	0.7
<b>112-115 Days Rel. Maturity</b>		<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5337CB	CB	113	203	24.2	53.5
SEED CONSULTANT	SC11B45	CB	114	196	23.7	53.2
TRISLER BY AUGUSTA	T5338CB	CB	115	196	23.2	52.2
SEED CONSULTANT	SC11B55	CB	115	195	22.7	54.0
AUGUSTA	A5337		113	194	23.4	54.5
TRISLER BY AUGUSTA	T5337RRCB	CB+RR	113	192	24.2	53.7
DEKALB	DKC63-81(RR2/YGCB)	CB+RR	113	191	21.0	58.1
PIONEER BRAND	33V15		114	191	21.9	60.0
PIONEER BRAND	33M54		114	189	22.7	59.1
TRISLER BY AUGUSTA	T04-69CB	CB	115	185	23.5	54.0
VIGORO	V53Y41	CB	112	180	20.2	58.8
SOUTHERN STATES	692Bt	CB	113	175	21.7	57.7
TRISLER BY AUGUSTA	T5340Bt	CB	115	171	22.8	54.2
			Maturity Average	189	22.7	55.6
			C.V.	7	4.8	1.6
			L.S.D. (0.05)	13	1.1	0.9

**Table 8, continued. Two-year average corn yields under DRYLAND conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2004 and 2005 - Virginia**

Tech Trials.						
≥116 Days Rel. Maturity		DTM per	Yield <sup>3</sup>	Moist	Test Wt	
Brand/Company	Hybrid	GT <sup>1</sup>	Co. <sup>2</sup>	bu/A	%	lb/bu
VIGORO	V58Y41	CB	117	188	23.7	53.4
NK BRAND SEEDS	N82-A7	CB+LL	116	187	23.3	54.3
PIONEER BRAND	31G98		117	181	22.5	56.5
TRISLER BY AUGUSTA	T04-94CB	CB	119	171	25.3	57.5
DOEBLERS	784XYG	CB	117	165	24.2	53.0
			Maturity Average	178	23.8	54.9
			C.V.	11	3.6	1.1
			L.S.D. (0.05)	20	0.9	0.6
			Location Average	187	22.5	55.7

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm,

RR=Roundup® Ready, LL=Liberty Link®.

<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 9. Three-year average corn yields under DRYLAND conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2003, 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
TRISLER BY AUGUSTA	T5244RR	RR	107	176	18.9	56.3	
DEKALB	DKC57-84(YGCB)	CB	107	163	17.8	58.6	
AUGUSTA	A3387		107	163	18.7	56.2	
				Maturity Average	168	18.5	57.0
				C.V.	10	3.3	0.8
				L.S.D. (0.05)	15	0.5	0.4
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
VIGORO	V52Y41	CB	111	178	19.4	56.4	
TRISLER BY AUGUSTA	T5253Bt	CB	108	162	20.8	55.3	
				Maturity Average	170	20.1	55.9
				C.V.	9	2.3	1.4
				L.S.D. (0.05)	14	0.4	0.7
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
TRISLER BY AUGUSTA	T5337CB	CB	113	186	21.6	54.4	
AUGUSTA	A5337		113	181	21.1	55.0	
PIONEER BRAND	33V15		114	179	20.1	59.9	
PIONEER BRAND	33M54		114	169	20.6	59.6	
TRISLER BY AUGUSTA	T5340Bt	CB	115	164	20.3	54.9	
SOUTHERN STATES	692Bt	CB	113	162	19.4	57.9	
				Maturity Average	174	20.5	56.9
				C.V.	8	3.4	1.4
				L.S.D. (0.05)	11	0.6	0.7
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
NK BRAND SEEDS	N82-A7	CB+LL	116	175	21.4	55.8	
VIGORO	V58Y41	CB	117	174	21.4	54.4	
PIONEER BRAND	31G98		117	172	20.4	57.1	
				Maturity Average	174	21.0	55.7
				C.V.	10	3.7	1.1
				L.S.D. (0.05)	15	0.7	0.5
				Location Average	172	20.1	56.5

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 10. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2005 - Virginia Tech Trials.**

≤107 Days Rel. Maturity		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu
DEKALB	DKC57-84(YGCB)	PL,CB	107	214	19.6	58.9
ASGROW	RX668RR2/YGCB	PL,CB+RR	107	211	19.0	57.9
TRISLER BY AUGUSTA	T5244RRBt	PL,CB+RR	107	211	22.0	57.4
TRISLER BY AUGUSTA	T5160CB	PL,CB	105	200	22.3	57.6
TRISLER BY AUGUSTA	T5244RR	PL,RR	107	197	22.3	58.2
AUGUSTA	A3387	PL	107	193	22.2	56.8
TRISLER BY AUGUSTA	T2744RRCB	PL,CB+RR	103	180	21.6	57.7
TRISLER BY AUGUSTA	T05-126CB	PL,CB	104	179	21.4	57.4
AUGUSTA	A05-112	PL	104	173	19.9	57.0
TRISLER BY AUGUSTA	T03-84CB	PL,CB	106	163	20.7	57.0
TRISLER BY AUGUSTA	T05-125CRW	PL,RW	103	153	23.3	58.1
DOEBLERS	575XB	PL,CB	106	151	22.6	58.7
DOEBLERS	494RYG	PL,CB+RR	100	147	21.1	59.0
		Maturity Average		181	21.5	58.1
		C.V.		10	8.5	1.1
		L.S.D. (0.05)		29	2.9	1.0
108-111 Days Rel. Maturity		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu
TRISLER BY AUGUSTA	T5255RRCB	PL,CB+RR	109	220	24.8	57.0
DEKALB	DKC61-72(RR2)	PL,RR	111	217	21.7	56.4
TRISLER BY AUGUSTA	T03-11CB	PL,CB	108	208	25.8	59.2
NK BRAND SEEDS	N65-C5	C,CB+LL	109	207	21.5	57.1
VIGORO	V50Y51	C,CB	110	202	22.5	58.0
MID-ATLANTIC SEED	MA9114	PL	111	200	21.9	60.8
VIGORO	V52Y41	C,CB	111	198	22.6	57.3
DOEBLERS	648RYG	PL,CB+RR	111	198	23.0	57.3
TRISLER BY AUGUSTA	T5231Bt	PL,CB	108	197	22.1	57.8
VIGORO	V5160	C	111	197	20.9	57.3
PIONEER BRAND	34B99	PL,HX	110	196	21.0	59.8
AUGUSTA	A04-115	PL	109	193	22.7	59.9
DEKALB	DKC61-45(RR2/YGCB)	PL,CB+RR	111	193	20.4	58.1
TRISLER BY AUGUSTA	T5253Bt	PL,CB	108	192	24.7	57.0
FB	649	C	109	192	22.9	57.6
TRISLER BY AUGUSTA	T5257RRCB	PL,CB+RR	111	189	24.0	58.4
TRISLER BY AUGUSTA	T5240CB	PL,CB	108	186	22.6	56.9
T.A. SEEDS	TA 5753	PL,CB+RR	109	185	21.1	57.5
NK BRAND SEEDS	N69-P9	C	110	184	22.9	58.6
TRISLER BY AUGUSTA	T5257CB	PL,CB	111	177	22.1	57.2
		Maturity Average		196	22.5	57.9
		C.V.		8	6.4	1.7
		L.S.D. (0.05)		25	2.2	1.5

**Table 10, continued. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2005 - Virginia Tech Trials.**

112-115 Days Rel. Maturity		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu
TRISLER BY AUGUSTA	T5337RRCB	PL,CB+RR	113	202	25.4	56.6
PIONEER BRAND	33M54	PL	114	201	24.2	59.6
TRISLER BY AUGUSTA	T5338CB	PL,CB	115	200	24.7	55.6
NK BRAND SEEDS	N72-G8	C	112	198	23.0	55.6
MID-ATLANTIC SEED	MA9123	PL	112	197	22.4	57.9
PIONEER BRAND	33V15	PL	114	195	23.1	59.8
SOUTHERN STATES	746RR/YGCB	PH,CB+RR	115	195	22.9	58.9
PIONEER BRAND	33H25	PL	114	192	22.5	57.7
MID-ATLANTIC SEED	MA7150YG	PL,CB	114	192	24.1	55.9
MID-ATLANTIC SEED	MA7150Bt/CRW/RR	PL,RW+RR	114	192	23.6	56.4
MID-ATLANTIC SEED	MA9152	PL	114	192	23.2	58.1
AUGUSTA	A04-79	PL	114	190	23.7	59.8
FB	854	C	113	189	24.7	59.5
VIGORO	V54Y61	PL,CB	114	188	20.3	57.7
T.A. SEEDS	TA 6821	PL,CB	114	187	22.2	59.4
T.A. SEEDS	TA 6993	PL,CB+RR	114	185	22.3	57.1
SEED CONSULTANTS	SC11B55	C,CB	115	185	24.9	55.7
SOUTHERN STATES	692Bt	PH,CB	113	182	22.7	58.9
VIGORO	V56Y51	C,CB	115	182	24.7	59.6
AUGUSTA	A5337	PL	113	180	24.3	56.0
TRISLER BY AUGUSTA	T5340Bt	PL,CB	115	178	25.0	56.2
VIGORO	V53Y41	C,CB	112	176	21.2	59.1
TRISLER BY AUGUSTA	T5337CB	PL,CB	113	176	24.2	56.6
SEED CONSULTANTS	SC11B40	C,CB	114	171	25.1	58.5
DEKALB	DKC63-81(RR2/YGCB)	PL,CB+RR	113	170	21.4	60.2
SEED CONSULTANTS	SC11B46	C,CB	114	170	23.8	59.8
DOEBLERS	749XYG	PL,CB	114	161	22.7	57.6
SEED CONSULTANTS	SC11B45	C,CB	114	158	26.2	57.1
TRISLER BY AUGUSTA	T04-69CB	PL,CB	115	155	24.5	55.9
				184	23.6	57.8
				10	6.5	1.4
				27	2.2	1.2
<b>≥116 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
FB	904	C	117	214	24.2	55.6
PIONEER BRAND	31G68	PL,CB	118	212	23.4	58.0
DEKALB	DKC69-71(RR2/YGCB)	PL,CB+RR	119	212	24.1	59.4
SEED CONSULTANTS	SC11H76	C,CB	117	208	25.8	56.3
TRISLER BY AUGUSTA	T04-105RR	PL,RR	118	204	25.5	58.1
TRISLER BY AUGUSTA	T05-25RR	PL,RR	118	196	24.3	56.9
PIONEER BRAND	31G98	PL	117	194	22.5	58.8
NK BRAND SEEDS	N82-A7	C,CB+LL	116	192	24.8	57.3
DEKALB	DKC66-21(YGCB)	PL,CB	116	191	25.3	59.1
TRISLER BY AUGUSTA	T05-102	PL	118	187	22.2	60.8
SOUTHERN STATES	842RR2/YGCB	PH,CB+RR	119	186	23.4	56.5

**Table 10, continued. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2005 - Virginia Tech Trials.**

<b>≥116 Days Rel. Maturity, continued</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T04-94CB	PL,CB	119	184	26.1	60.4
DOEBLERS	761BDT	PL,CB	116	183	23.4	59.7
T.A. SEEDS	TA 780-13	PL,CB+RW+RR	119	180	23.3	57.6
SEED CONSULTANTS	SC1165	C	116	179	21.5	55.7
T.A. SEEDS	X11406	PL,CB	117	178	23.6	56.5
T.A. SEEDS	X12771	PL,CB	116	177	22.3	57.9
VIGORO	V58Y41	C,CB	117	173	25.0	56.7
DOEBLERS	784XYG	PL,CB	117	165	25.0	57.3
		Maturity Average		190	23.9	57.7
		C.V.		10	5.4	1.1
		L.S.D. (0.05)		28	2.0	0.9
		Location Average		188	23.1	57.8
<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®.						
<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.						
<sup>3</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.						
<sup>4</sup> Reported at 15.5% moisture. There was no lodging at this location.						

**Table 11. Two-year average corn yields under IRRIGATED conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
DEKALB	DKC57-84(YGCB)	CB	107	211	17.7	58.5
AUGUSTA	A3387		107	207	19.0	56.1
TRISLER BY AUGUSTA	T5244RR	RR	107	204	18.4	56.1
TRISLER BY AUGUSTA	T5244RRBt	CB+RR	107	201	19.4	56.9
TRISLER BY AUGUSTA	T5160CB	CB	105	185	18.4	57.1
TRISLER BY AUGUSTA	T03-84CB	CB	106	173	18.7	56.4
			Maturity Average	196	18.6	56.9
			C.V.	11	6.3	1.5
			L.S.D. (0.05)	25	1.3	1.0
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5255RRCB	CB+RR	109	210	21.9	55.4
DOEBLERS	648RYG	CB+RR	111	205	19.6	56.1
VIGORO	V52Y41	CB	111	192	20.3	57.3
TRISLER BY AUGUSTA	T5253Bt	CB	108	185	21.3	56.4
TRISLER BY AUGUSTA	T03-11CB	CB	108	182	22.1	58.1
			Maturity Average	195	21.0	56.6
			C.V.	9	4.0	1.5
			L.S.D. (0.05)	21	1.0	1.0
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
PIONEER BRAND	33M54		114	212	21.8	59.5
PIONEER BRAND	33V15		114	211	20.9	59.6
SEED CONSULTANT	SC11B55	CB	115	210	22.1	54.8
TRISLER BY AUGUSTA	T5340Bt	CB	115	207	22.5	55.7
TRISLER BY AUGUSTA	T5337RRCB	CB+RR	113	205	22.9	55.9
TRISLER BY AUGUSTA	T5338CB	CB	115	201	22.3	54.4
SOUTHERN STATES	692Bt	CB	113	196	19.8	57.8
TRISLER BY AUGUSTA	T5337CB	CB	113	192	21.9	55.4
AUGUSTA	A5337		113	191	21.2	55.5
DEKALB	DKC63-81(RR2/YGCB)	CB+RR	113	187	19.4	59.7
SEED CONSULTANT	SC11B45	CB	114	187	22.9	54.9
VIGORO	V53Y41	CB	112	179	18.5	58.2
TRISLER BY AUGUSTA	T04-69CB	CB	115	177	20.8	55.6
			Maturity Average	196	21.3	56.6
			C.V.	9	5.8	2.0
			L.S.D. (0.05)	17	1.3	1.2



**Table 11, continued. Two-year average corn yields under IRRIGATED conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2004 and 2005 - Virginia Tech Trials.**

<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T04-94CB	CB	119	208	24.0	58.7
DOEBLERS	784XYG	CB	117	204	22.3	55.5
NK BRAND SEEDS	N82-A7	CB+LL	116	202	21.9	56.5
PIONEER BRAND	31G98		117	198	21.2	57.5
VIGORO	V58Y41	CB	117	183	21.9	55.8
			Maturity Average	199	22.2	56.8
			C.V.	12	5.2	2.1
			L.S.D. (0.05)	26	1.3	1.3
			Location Average	196	20.9	56.7
<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.						
<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.						
<sup>3</sup> Reported at 15.5% moisture.						

**Table 12. Three-year average corn yields under IRRIGATED conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2003, 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
DEKALB	DKC57-84(YGCB)	CB	107	219	18.7	58.5
AUGUSTA	A3387		107	215	20.7	56.1
TRISLER BY AUGUSTA	T5244RR	RR	107	211	19.9	56.1
			Maturity Average	215	19.8	56.9
			C.V.	8	5.7	1.7
			L.S.D. (0.05)	16	1.1	1.2
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
VIGORO	V52Y41	CB	111	209	21.2	57.3
TRISLER BY AUGUSTA	T5253Bt	CB	108	205	22.7	56.4
			Maturity Average	207	22.0	56.9
			C.V.	9	5.9	2.3
			L.S.D. (0.05)	19	1.3	1.9
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
PIONEER BRAND	33M54		114	242	22.7	59.5
PIONEER BRAND	33V15		114	233	21.9	59.6
TRISLER BY AUGUSTA	T5340Bt	CB	115	224	23.2	55.7
SOUTHERN STATES	692Bt	CB	113	217	20.9	57.8
AUGUSTA	A5337		113	211	22.3	55.5
TRISLER BY AUGUSTA	T5337CB	CB	113	209	23.2	55.4
			Maturity Average	223	22.4	57.2
			C.V.	9	5.1	2.3
			L.S.D. (0.05)	17	1.0	1.4
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co. <sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
PIONEER BRAND	31G98		117	225	22.7	57.5
NK BRAND SEEDS	N82-A7	CB+LL	116	216	23.1	56.5
VIGORO	V58Y41	CB	117	207	22.8	55.8
			Maturity Average	216	22.9	56.6
			C.V.	12	5.8	2.5
			L.S.D. (0.05)	23	1.2	1.5
			Location Average	217	21.9	57.0

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 13. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2005 -**

<b>Virginia Tech Trials.</b>							
<b>≤107 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Ear Height</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co. <sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>inches</b>
DEKALB	DKC57-84(YGCB)	PL,CB	107	129	21.9	56.9	40
ASGROW	RX668RR2/YGCB	PL,CB+RR	107	125	19.8	55.9	39
DOEBLERS	575XB	PL,CB	106	116	20.7	55.7	38
		Maturity Average		123	20.8	56.2	39
		C.V.		9	1.7	1.0	5
		L.S.D. (0.05)		18	0.6	1.0	4
<b>108-111 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Ear Height</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co. <sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>inches</b>
DEKALB	DKC61-45(RR2/YGCB)	PL,CB+RR	111	131	21.6	55.9	35
DOEBLERS	648RYG	PL,CB+RR	111	131	24.7	53.5	39
FB	649	C	109	124	23.4	54.6	37
DEKALB	DKC61-72(RR2)	PL,RR	111	122	22.4	55.5	37
		Maturity Average		127	23.0	54.9	37
		C.V.		8	2.6	1.7	7
		L.S.D. (0.05)		16	0.9	1.5	4
<b>112-115 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Ear Height</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co. <sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>inches</b>
DEKALB	DKC63-81(RR2/YGCB)	PL,CB+RR	113	127	24.6	57.0	40
MID-ATLANTIC SEED	MA9152	PL	114	123	23.9	55.0	40
SOUTHERN STATES	692Bt	PH,CB	113	121	24.5	56.6	37
PIONEER BRAND	33H25	PL	114	121	23.9	54.8	40
MID-ATLANTIC SEED	MA7150YG	PL,CB	114	121	26.9	51.9	42
SOUTHERN STATES	746RR/YGCB	PH,CB+RR	115	121	26.9	53.9	46
PIONEER BRAND	33V15	PL	114	120	23.9	58.6	41
VIGORO	V56Y51	C,CB	115	111	27.1	55.9	39
DOEBLERS	749XYG	PL,CB	114	102	25.6	54.4	40
FB	854	C	113	96	26.0	56.1	35
		Maturity Average		116	25.3	55.4	40
		C.V.		9	5.2	1.0	8
		L.S.D. (0.05)		15	1.9	0.8	4
<b>≥116 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Ear Height</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co. <sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>inches</b>
DEKALB	DKC66-21(YGCB)	PL,CB	116	129	26.9	54.8	38
VIGORO	V58Y41	C,CB	117	128	28.5	52.2	40
FB	904	C	117	123	26.7	52.7	41
PIONEER BRAND	31G68	PL,CB	118	114	26.5	55.2	38
DEKALB	DKC69-71(RR2/YGCB)	PL,CB+RR	119	114	28.8	54.2	43
SOUTHERN STATES	842RR2/YGCB	PH,CB+RR	119	111	27.8	52.6	36
DOEBLERS	761BDT	PL,CB	116	102	26.4	56.3	34
DOEBLERS	784XYG	PL,CB	117	102	28.9	51.4	35
		Maturity Average		115	27.5	53.7	38
		C.V.		9	4.5	1.0	11
		L.S.D. (0.05)		14	1.8	0.8	6
		Location Average		118	25.1	54.9	39

<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®.

<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=BtHerculex™ corn borer, RW=Bt rootworm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>3</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies.

<sup>4</sup> Reported at 15.5% moisture. There was no lodging at this location.

**Table 14. Two-year average corn yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
DEKALB	DKC57-84(YGCB)	CB	107	150	18.1	57.4	
<b>108-111 Days Rel. Maturity</b>							
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
DOEBLERS	648RYG	CB+RR	111	169	20.4	55.4	
<b>112-115 Days Rel. Maturity</b>							
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
PIONEER BRAND	33V15		114	162	21.0	59.8	
DEKALB	DKC63-81(RR2/YGCB)	CB+RR	113	161	20.1	58.4	
				Maturity Average	161	20.5	59.0
				C.V.	8	4.6	0.8
				L.S.D. (0.05)	18	1.2	0.6
<b>≥116 Days Rel. Maturity</b>							
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
DOEBLERS	784XYG	CB	117	143	22.6	54.1	
				Location Average	157	20.4	57.0

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.

<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 15. Three-year average corn yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2003, 2004, and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
DEKALB	DKC57-84(YGCB)	CB	107	150	17.3	57.4	
<b>112-115 Days Rel. Maturity</b>							
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
PIONEER BRAND	33V15		114	153	20.2	59.5	
				Location Average	151	18.8	58.4

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.

<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 16. Corn Yields at the Northern Piedmont AREC in Orange, Virginia in 2005 - Virginia**

<b>Tech Trials.</b>							
<b>≤107 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Days to</b>	<b>Ear Ht</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>Silk</b>	<b>inches</b>
TRISLER BY AUGUSTA	T5160CB	PL,CB	105	135	14.7	72	35
TRISLER BY AUGUSTA	T03-84CB	PL,CB	106	124	15.4	73	33
DEKALB	DKC57-84(YGCB)	PL,CB	107	102	14.8	71	31
ASGROW	RX668RR2/YGCB	PL,CB+RR	107	98	14.2	71	31
DOEBLERS	494RYG	PL,CB+RR	100	95	14.7	70	29
AUGUSTA	A05-112	PL	104	94	14.7	73	32
TRISLER BY AUGUSTA	T05-125CRW	PL,RW	103	89	15.1	71	30
DOEBLERS	575XB	PL,CB	106	77	15.1	71	29
		Maturity Average		102	14.8	71	31
		C.V.		10	3.3	2	6
		L.S.D. (0.05)		15	0.7	2	3
<b>108-111 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Days to</b>	<b>Ear Ht</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>Silk</b>	<b>inches</b>
NK BRAND SEEDS	N65-C5	C,CB+LL	109	135	14.8	71	32
VIGORO	V50Y51	C,CB	110	117	15.3	72	32
MID-ATLANTIC SEED	MA9114	PL	111	117	14.7	74	38
T.A. SEEDS	TA 5753	PL,CB	109	115	14.2	73	33
AUGUSTA	A04-115	PL	109	114	14.5	72	37
TRISLER BY AUGUSTA	T5257RRCB	PL,CB+RR	111	114	14.6	73	32
VIGORO	V52Y41	C,CB	111	112	14.6	72	32
TRISLER BY AUGUSTA	T5257CB	PL,CB	111	112	14.7	74	33
TRISLER BY AUGUSTA	T5240CB	PL,CB	108	111	15.1	74	34
DEKALB	DKC61-45(RR2/YGCB)	PL,CB+RR	111	107	15.6	73	34
DOEBLERS	648RYG	PL,CB+RR	111	103	15.0	74	34
PIONEER BRAND	34B99	PL,HX	110	97	15.1	72	31
NK BRAND SEEDS	N69-P9	C	110	97	14.0	74	35
VIGORO	V5160	C	111	96	14.6	72	33
DEKALB	DKC61-72(RR2)	PL,RR	111	89	14.8	71	31
		Maturity Average		109	14.8	73	33
		C.V.		9	5.3	2	5
		L.S.D. (0.05)		14	1.1	2	2
<b>112-115 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Days to</b>	<b>Ear Ht</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>Silk</b>	<b>inches</b>
MID-ATLANTIC SEED	MA7150Bt/CRW/RR	PL,RW+RR	114	139	15.4	73	33
TRISLER BY AUGUSTA	T03-19CB	PL,CB	113	138	14.8	75	36
SOUTHERN STATES	746RR/YGCB	PH,CB	115	138	14.9	75	41
DEKALB	DKC63-81(RR2/YGCB)	PL,CB+RR	113	135	14.6	74	37
TRISLER BY AUGUSTA	T5337RRCB	PL,CB+RR	113	135	16.1	74	34
TRISLER BY AUGUSTA	T5338CB	PL,CB	115	128	15.5	74	34
TRISLER BY AUGUSTA	T5337CB	PL,CB	113	126	15.5	74	34
TRISLER BY AUGUSTA	T04-69CB	PL,CB	115	125	15.8	74	32
AUGUSTA	A04-79	PL	114	124	15.6	74	37
MID-ATLANTIC SEED	MA7150YG	PL,CB	114	122	15.3	74	35
T.A. SEEDS	TA 6993	PL,CB	114	121	14.5	74	32
T.A. SEEDS	TA 6821	PL,CB	114	120	14.8	73	38
PIONEER BRAND	33V15	PL	114	119	15.2	75	33
VIGORO	V54Y61	PL,CB	114	117	15.3	73	31
VIGORO	V53Y41	C,CB	112	116	14.8	73	38

**Table 16, continued. Corn Yields at the Northern Piedmont AREC in Orange, Virginia in 2005 - Virginia Tech Trials.**

112-115 Days Rel. Maturity, continued		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Days to	Ear Ht
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	Silk	inches
SOUTHERN STATES	692Bt	PH,CB	113	114	13.6	73	28
VIGORO	V56Y51	C,CB	115	113	15.5	74	36
MID-ATLANTIC SEED	MA9152	PL	114	112	15.1	74	36
DOEBLERS	749XYG	PL,CB	114	111	15.7	73	34
MID-ATLANTIC SEED	MA9123	PL	112	108	14.0	74	38
PIONEER BRAND	33M54	PL	114	102	15.0	73	30
NK BRAND SEEDS	N72-G8	C	112	98	14.6	74	35
PIONEER BRAND	33H25	PL	114	96	15.4	73	31
		Maturity Average		120	15.1	74	34
		C.V.		9	5.8	2	5
		L.S.D. (0.05)		15	1.2	2	2
≥ 116 Days Rel. Maturity		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Days to	Ear Ht
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	Silk	inches
PIONEER BRAND	31G68	PL,CB	118	137	15.6	75	35
TRISLER BY AUGUSTA	T04-105RR	PL,RR	118	125	16.9	75	38
TRISLER BY AUGUSTA	T04-94CB	PL,CB	119	124	16.6	76	45
TRISLER BY AUGUSTA	T04-103CB	PL,CB	119	124	18.2	76	42
T.A. SEEDS	TA 780-13	PL,CB+RW+RR	119	123	15.2	75	35
NK BRAND SEEDS	N82-A7	C,CB+LL	116	120	16.0	75	39
DEKALB	DKC66-21(YGCB)	PL,CB	116	117	15.5	75	32
TRISLER BY AUGUSTA	T05-25RR	PL,RR	118	117	16.4	76	37
TRISLER BY AUGUSTA	T04-51RR	PL,RR	119	116	16.6	76	42
TRISLER BY AUGUSTA	T04-104RR	PL,RR	119	115	16.5	75	38
VIGORO	V58Y41	C,CB	117	114	15.9	75	34
DEKALB	DKC69-71(RR2/YGCB)	PL,CB+RR	119	114	16.3	76	38
AUGUSTA	A9561	PL	119	113	15.7	76	41
SOUTHERN STATES	842RR2/YGCB	PH,CB	119	113	16.4	75	34
PIONEER BRAND	31G98	PL	117	110	15.6	75	37
DOEBLERS	784XYG	PL,CB	117	107	15.9	74	33
T.A. SEEDS	X12771	PL,CB	116	101	15.9	76	30
DOEBLERS	761BDT	PL,CB	116	99	15.4	76	34
TRISLER BY AUGUSTA	T05-102	PL	118	98	15.4	71	31
TRISLER BY AUGUSTA	T05-23RR	PL,RR	119	98	16.7	75	40
T.A. SEEDS	X11406	PL,CB	117	97	15.3	75	35
		Maturity Average		113	16.1	75	37
		C.V.		9	6.6	2	6
		L.S.D. (0.05)		15	1.5	2	3
		Location Average		113	15.3	74	34
<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®.							
<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt rootworm, RR=Roundup® Ready, LL=LibertyLink®.							
<sup>3</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies.							
<sup>4</sup> Reported at 15.5% moisture. There was no lodging at this location.							

**Table 17. Two-year average corn yields at the Northern Piedmont AREC in Orange, VA in 2004 and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>		<b>GT<sup>1</sup></b>	<b>DTM per Co.<sup>2</sup></b>	<b>Yield<sup>3</sup> bu/A</b>	<b>Moist %</b>	<b>Days to Silk</b>	<b>Ear Ht inches</b>
<b>Brand/Company</b>	<b>Hybrid</b>						
DEKALB	DKC57-84(YGCB)	CB	107	150	17.1	66	40
<b>108-111 Days Rel. Maturity</b>		<b>GT<sup>1</sup></b>	<b>DTM per Co.<sup>2</sup></b>	<b>Yield<sup>3</sup> bu/A</b>	<b>Moist %</b>	<b>Days to Silk</b>	<b>Ear Ht inches</b>
<b>Brand/Company</b>	<b>Hybrid</b>						
VIGORO	V52Y41	CB	111	171	17.9	67	42
DOEBLERS	648RYG	CB+RR	111	165	17.4	68	42
		Maturity Average		168	17.6	67	42
		C.V.		10	7.0	2	5
		L.S.D. (0.05)		20	1.5	2	2
<b>112-115 Days Rel. Maturity</b>		<b>GT<sup>1</sup></b>	<b>DTM per Co.<sup>2</sup></b>	<b>Yield<sup>3</sup> bu/A</b>	<b>Moist %</b>	<b>Days to Silk</b>	<b>Ear Ht inches</b>
<b>Brand/Company</b>	<b>Hybrid</b>						
TRISLER BY AUGUSTA	T03-19CB	CB	113	183	17.6	69	45
TRISLER BY AUGUSTA	T5337CB	CB	113	183	18.5	68	44
TRISLER BY AUGUSTA	T5337RRCB	CB+RR	113	183	19.2	68	43
DEKALB	DKC63-81(RR2/YGCB)	CB+RR	113	176	18.0	68	45
PIONEER BRAND	33V15		114	166	18.0	69	44
SOUTHERN STATES	692Bt	CB	113	161	17.1	68	39
VIGORO	V53Y41	CB	112	160	17.7	68	45
		Maturity Average		173	18.0	68	43
		C.V.		7	7.8	1	4
		L.S.D. (0.05)		13	1.4	1	2
<b>≥116 Days Rel. Maturity</b>		<b>GT<sup>1</sup></b>	<b>DTM per Co.<sup>2</sup></b>	<b>Yield<sup>3</sup> bu/A</b>	<b>Moist %</b>	<b>Days to Silk</b>	<b>Ear Ht inches</b>
<b>Brand/Company</b>	<b>Hybrid</b>						
TRISLER BY AUGUSTA	T04-94CB	CB	119	179	20.5	70	54
VIGORO	V58Y41	CB	117	164	19.8	69	44
PIONEER BRAND	31G98		117	163	18.6	71	49
DOEBLERS	784XYG	CB	117	162	19.4	68	44
AUGUSTA	A9561		119	162	18.9	70	51
		Maturity Average		166	19.4	70	48
		C.V.		9	7.1	2	5
		L.S.D. (0.05)		15	1.4	1	2
		Location Average		168	18.4	68	44

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm,

RR=Roundup® Ready, LL=LibertyLink®.

<sup>2</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.

**Table 18. Three-year average corn yields at the Northern Piedmont AREC at Orange, VIRGINIA in 2003, 2004, and 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>		<b>DTM per</b>		<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Days to</b>	<b>Ear Ht</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>Silk</b>	<b>inches</b>
DEKALB	DKC57-84(YGCB)	CB	107	179	20.4	68	42
<b>108-111 Days Rel. Maturity</b>		<b>DTM per</b>		<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Days to</b>	<b>Ear Ht</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>Silk</b>	<b>inches</b>
VIGORO	V52Y41	CB	111	210	21.4	69	43
<b>112-115 Days Rel. Maturity</b>		<b>DTM per</b>		<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Days to</b>	<b>Ear Ht</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>Silk</b>	<b>inches</b>
PIONEER BRAND	33V15		114	181	21.2	72	46
<b>≥116 Days Rel. Maturity</b>		<b>DTM per</b>		<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Days to</b>	<b>Ear Ht</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>Silk</b>	<b>inches</b>
VIGORO	V58Y41	CB	117	207	22.8	71	45
PIONEER BRAND	31G98		117	192	23.1	73	51
		Maturity Average		199	22.9	72	48
		C.V.		6	5.7	1	7
		L.S.D. (0.05)		11	1.2	1	3
		Location Average		194	21.8	71	45

<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.

<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>3</sup> Reported at 15.5% moisture.





**Table 19, continued. Corn Yields at North Point Farms in Augusta County, Virginia (SHENANDOAH VALLEY) in 2005 - Virginia Tech Trials.**

112-115 Days Rel. Maturity, continued		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt	Lodging
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu	%
TRISLER BY AUGUSTA	T5338CB	PL, CB	115	109	19.2	58.6	1
SOUTHERN STATES	692Bt	PH, CB	113	107	19.8	60.3	1
SEED CONSULTANTS	SC11B46	C, CB	114	106	20.5	61.4	0
BIO GENE	Bt1152	CB	115	103	20.1	61.8	0
DOEBLERS	749XYG	PL, CB	114	99	19.6	60.7	0
		Maturity Average		118	19.7	60.5	1
		C.V.		12	2.1	1.0	
		L.S.D. (0.05)		20	0.6	0.9	3
≥116 Days Rel. Maturity		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt	Lodging
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu	%
PIONEER BRAND	31G68	PL, CB	118	131	20.1	60.7	1
FB	904	C	117	130	19.0	58.9	0
DOEBLERS	761BDT	PL, CB	116	129	20.9	61.5	0
TRISLER BY AUGUSTA	T05-102	PL	118	129	20.0	61.8	0
SOUTHERN STATES	842RR2/YGCB	PH, CB+RR	119	126	21.3	59.3	0
DEKALB	DKC66-21(YGCB)	PL, CB	116	125	19.6	61.1	1
T.A. SEEDS	X12771	PL, CB	116	121	20.0	60.6	0
NK BRAND SEEDS	N82-A7	C, CB+LL	116	121	21.6	60.4	0
SEED CONSULTANTS	SC1165	C	116	120	19.8	59.1	0
VIGORO	V58Y41	C, CB	117	115	20.0	59.2	0
SEED CONSULTANTS	SC11H76	C, CB	117	115	22.0	60.5	0
BIO GENE	1163RR/CB	CB+RR	116	114	19.9	62.0	0
TRISLER BY AUGUSTA	T04-94CB	PL, CB	119	111	21.5	62.0	0
PIONEER BRAND	31G98	PL	117	109	19.5	61.7	0
TRISLER BY AUGUSTA	T04-51RR	PL, RR	119	108	22.5	61.3	3
TRISLER BY AUGUSTA	T04-103CB	PL, CB	119	108	23.0	62.7	1
DEKALB	DKC69-71(RR2/YGCB)	PL, CB+RR	119	107	21.9	60.1	1
TRISLER BY AUGUSTA	T05-23RR	PL, RR	119	106	21.5	61.4	3
T.A. SEEDS	TA 780-13	PL, CB+RW+RR	119	104	19.6	60.3	0
TRISLER BY AUGUSTA	T04-104RR	PL, RR	119	102	22.4	61.5	4
DOEBLERS	784XYG	PL, CB	117	97	20.3	60.0	0
T.A. SEEDS	X11406	PL, CB	117	87	20.2	59.5	0
		Maturity Average		114	20.7	60.7	1
		C.V.		13	2.4	1.4	
		L.S.D. (0.05)		21	0.7	1.2	2
		Location Average		117	19.9	60.4	1

<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®.

<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt rootworm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>3</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies.

<sup>4</sup> Reported at 15.5% moisture.

<b>Table 20. Two-year average corn yields at SHENANDOAH VALLEY, VA in 2004 (Rockingham County) and 2005 (Augusta County) - Virginia Tech Trials.</b>							
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Lodging</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>%</b>
DOEBLERS	648RYG	CB+RR	111	146	17.7	58.1	0
<b>112-115 Days Rel. Maturity</b>							
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>%</b>
TRISLER BY AUGUSTA	T5337CB	CB	113	180	19.6	57.7	0
SEED CONSULTANTS	SC11B45	CB	114	176	18.8	57.4	2
PIONEER BRAND	33V15		114	176	19.9	61.1	0
PIONEER BRAND	33M54		114	179	20.2	60.9	1
SEED CONSULTANTS	SC11B55	CB	115	171	18.9	58.3	0
BIO GENE	Bt1152	CB	115	153	20.3	58.8	0
		Maturity Average		172	19.6	59.0	1
		C.V.		6	2.3	1.0	
		L.S.D. (0.05)		11	0.5	0.6	1
<b>≥116 Days Rel. Maturity</b>							
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>%</b>
VIGORO	V58Y41	CB	117	181	19.6	57.5	0
PIONEER BRAND	31G98		117	177	19.4	59.7	1
DOEBLERS	784XYG	CB	117	164	19.9	57.6	1
TRISLER BY AUGUSTA	T04-104RR	RR	119	169	21.7	59.2	2
		Maturity Average		173	20.4	58.5	1
		C.V.		7	3.0	1.2	
		L.S.D. (0.05)		12	0.6	0.8	2
		Location Average		170	19.6	58.8	1
<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.							
<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.							
<sup>3</sup> Reported at 15.5% moisture.							

**Table 21. Three-year average corn yields at SHENANDOAH VALLEY, VA in 2003 (Augusta County), 2004 (Rockingham County), and 2005 (Augusta County) - Virginia Tech Trials.**

<b>112-115 Days Rel. Maturity</b>		<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
PIONEER BRAND	33V15		114	166	19.8	60.0
BIO GENE	Bt1152	CB	115	153	20.9	56.8
			Maturity Average	159	20.4	58.4
			C.V.	11	3.0	0.8
			L.S.D. (0.05)	16	0.6	0.4
<b>≥116 Days Rel. Maturity</b>		<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
VIGORO	V58Y41	CB	117	185	19.4	56.2
PIONEER BRAND	31G98		117	178	19.2	58.4
			Maturity Average	181	19.3	57.3
			C.V.	5	1.5	1.4
			L.S.D. (0.05)	8	0.3	0.7
			Location Average	170	19.8	57.9
<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.						
<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.						
<sup>3</sup> Reported at 15.5% moisture.						

**Table 22. Corn Yields at Kentland Farm in Blacksburg, Virginia in 2005 - Virginia Tech Trials.**

<b>≤107 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
DOEBLERS	575XB	PL,CB	106	146	21.5	57.9
<b>108-111 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
NK BRAND SEEDS	N65-C5	C,CB+LL	109	155	24.6	55.3
DOEBLERS	648RYG	PL,CB+RR	111	153	25.3	54.7
FB	649	C	109	145	24.6	54.9
NK BRAND SEEDS	N69-P9	C	110	144	26.7	56.5
PIONEER BRAND	34B99	PL,HX	110	141	23.6	58.0
		Maturity Average		147	25.0	55.9
		C.V.		10	3.5	1.1
		L.S.D. (0.05)		22	1.3	1.0
<b>112-115 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5337RRCB	PL,CB+RR	113	165	28.2	53.4
PIONEER BRAND	33V15	PL	114	153	26.5	59.0
NK BRAND SEEDS	N72-G8	C	112	152	24.8	54.8
FB	854	C	113	149	25.7	57.2
PIONEER BRAND	33H25	PL	114	136	27.4	55.7
MID-ATLANTIC SEED	MA9123	PL	112	132	24.3	56.9
DOEBLERS	749XYG	PL,CB	114	132	24.6	56.0
TRISLER BY AUGUSTA	T5338CB	PL,CB	115	132	28.9	55.2
		Maturity Average		144	26.2	56.1
		C.V.		11	4.3	2.7
		L.S.D. (0.05)		27	1.9	2.6
<b>≥116 Days Rel. Maturity</b>		<b>IST<sup>1</sup></b>	<b>DTM per</b>	<b>Yield<sup>4</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>2</sup></b>	<b>Co.<sup>3</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
PIONEER BRAND	31G68	PL,CB	118	180	30.6	54.1
TRISLER BY AUGUSTA	T04-104RR	PL,RR	119	177	30.5	53.9
DOEBLERS	761BDT	PL,CB	116	168	27.3	55.6
FB	904	C	117	167	27.2	52.9
TRISLER BY AUGUSTA	T05-23RR	PL,RR	119	167	30.4	53.0
AUGUSTA	A9561	PL	119	161	31.4	53.4
TRISLER BY AUGUSTA	T04-103CB	PL,CB	119	158	29.8	54.8
TRISLER BY AUGUSTA	T04-51RR	PL,RR	119	157	30.9	53.4
TRISLER BY AUGUSTA	T04-94CB	PL,CB	119	151	29.9	56.0
TRISLER BY AUGUSTA	T04-102CB	PL,CB	118	150	24.8	56.9
DOEBLERS	784XYG	PL,CB	117	149	29.4	52.3
NK BRAND SEEDS	N82-A7	C,CB+LL	116	144	29.5	53.3
		Maturity Average		160	29.2	54.2
		C.V.		10	3.4	2.0
		L.S.D. (0.05)		25	1.5	1.6
		Location Average		152	27.2	55.2

<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®.

<sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=LibertyLink®.

<sup>3</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.

<sup>4</sup> Reported at 15.5% moisture. There was no lodging at this location.

<b>Table 23. Two-year average corn yields at Kentland Farm in BLACKSBURG, VA in 2004 and 2005 - Virginia Tech Trials.</b>						
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
DOEBLERS	648RYG	CB+RR	111	175	23.3	54.4
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
TRISLER BY AUGUSTA	T5337RRCB	CB+RR	113	199	25.4	52.8
PIONEER BRAND	33V15		114	187	23.5	58.8
		Maturity Average		193	24.4	56.1
		C.V.		6	1.4	1.9
		L.S.D. (0.05)		17	0.5	1.6
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
DOEBLERS	784XYG	CB	117	174	26.6	51.9
NK BRAND SEEDS	N82-A7	CB+LL	116	173	26.2	52.8
		Maturity Average		173	26.4	52.4
		C.V.		6	2.5	1.5
		L.S.D. (0.05)		14	0.9	1.1
		Location Average		181	25.0	54.2
<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.						
<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.						
<sup>3</sup> Reported at 15.5% moisture.						

<b>Table 24. Three-year average corn yields at Kentland Farm in BLACKSBURG, VA in 2003, 2004 and 2005 - Virginia Tech Trials.</b>						
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
PIONEER BRAND	33V15		114	175	21.9	59.3
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>
NK BRAND SEEDS	N82-A7	CB+LL	116	175	23.8	53.5
		Location Average		175	22.9	56.3
<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.						
<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.						
<sup>3</sup> Reported at 15.5% moisture.						

**Table 25. Corn Yields at Southwest Virginia (Washington County), Virginia in 2005 - Virginia**

Tech Trials.							
≤107 Days Rel. Maturity		IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt	Lodging
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu	%
DOEBLERS	575XB	PL,CB	106	104	21.2	50.9	0
<b>108-111 Days Rel. Maturity</b>							
Brand/Company	Hybrid	IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt	Lodging
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu	%
DOEBLERS	648RYG	PL,CB+RR	111	125	22.8	51.1	0
<b>112-115 Days Rel. Maturity</b>							
Brand/Company	Hybrid	IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt	Lodging
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu	%
TRISLER BY AUGUSTA	T5338CB	PL,CB	115	141	22.5	49.5	3
VIGORO	V56Y51	C,CB	115	136	24.5	51.8	3
PIONEER BRAND	33V15	PL	114	129	23.8	52.9	4
DOEBLERS	749XYG	PL,CB	114	119	23.3	51.3	0
PIONEER BRAND	33H25	PL	114	118	23.1	50.7	1
Maturity Average				129	23.4	51.2	2
C.V.				15	5.7	3.1	
L.S.D. (0.05)				30	2.1	2.4	4
<b>≥116 Days Rel. Maturity</b>							
Brand/Company	Hybrid	IST <sup>1</sup>	DTM per	Yield <sup>4</sup>	Moist	Test Wt	Lodging
Brand/Company	Hybrid	GT <sup>2</sup>	Co. <sup>3</sup>	bu/A	%	lb/bu	%
TRISLER BY AUGUSTA	T04-102CB	PL,CB	118	154	23.3	52.9	0
PIONEER BRAND	31G68	PL,CB	118	149	23.9	50.8	0
VIGORO	V58Y41	C,CB	117	145	22.1	50.2	1
DOEBLERS	761BDT	PL,CB	116	139	23.9	51.1	0
TRISLER BY AUGUSTA	T04-51RR	PL,RR	119	131	24.7	52.1	1
TRISLER BY AUGUSTA	T04-94CB	PL,CB	119	129	25.9	54.5	0
AUGUSTA	A9561	PL	119	121	24.1	52.6	1
DOEBLERS	784XYG	PL,CB	117	120	23.6	49.4	2
Maturity Average				135	23.9	51.7	1
C.V.				10	2.9	1.6	
L.S.D. (0.05)				20	1.1	1.3	3
Location Average				130	23.5	51.5	1
<sup>1</sup> Insecticidal Seed Treatment (IST) PL=Poncho 250®, PH=Poncho 1250®, C=Cruiser®, L=Lorsban®. <sup>2</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=LibertyLink®. <sup>3</sup> Days to maturity provided by company, differences in maturity rating methods may exist between companies. <sup>4</sup> Reported at 15.5% moisture.							

<b>Table 26. Two-year average corn yields in SOUTHWEST VIRGINIA in 2004 and 2005 (Washington County) - Virginia Tech Trials.</b>							
<b>108-111 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Lodging</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>%</b>
DOEBLERS	648RYG	CB+RR	111	154	19.2	52.9	1
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Lodging</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>%</b>
PIONEER BRAND	33V15		114	157	21.4	55.8	2
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	<b>Lodging</b>
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	<b>%</b>
VIGORO	V58Y41	CB	117	172	20.5	51.2	1
DOEBLERS	784XYG	CB	117	132	21.4	50.8	1
		Maturity Average		153	20.9	51.0	1
		C.V.		18	2.5	1.4	
		L.S.D. (0.05)		37	0.7	0.9	1
		Location Average		154	20.6	52.6	1
<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.							
<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.							
<sup>3</sup> Reported at 15.5% moisture.							

<b>Table 27. Three-year average corn yields in SOUTHWEST VIRGINIA in 2003, 2004, and 2005 (Washington County) - Virginia Tech Trials.</b>							
<b>112-115 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
PIONEER BRAND	33V15		114	172	21.3	56.7	
<b>≥116 Days Rel. Maturity</b>			<b>DTM per</b>	<b>Yield<sup>3</sup></b>	<b>Moist</b>	<b>Test Wt</b>	
<b>Brand/Company</b>	<b>Hybrid</b>	<b>GT<sup>1</sup></b>	<b>Co.<sup>2</sup></b>	<b>bu/A</b>	<b>%</b>	<b>lb/bu</b>	
VIGORO	V58Y41	CB	117	191	21.0	52.0	
		Location Average		182	21.2	54.2	
<sup>1</sup> Genetic Trait (GT), where CB=Bt corn borer, HX=Bt Herculex™ corn borer, RW=Bt root worm, RR=Roundup® Ready, LL=Liberty Link®.							
<sup>2</sup> Days to maturity provided by company; differences in maturity rating methods may exist between companies.							
<sup>3</sup> Reported at 15.5% moisture.							



## **Evaluation of foliar fungicides for the control of gray leaf spot of corn in Virginia, 2005.**

Gray leaf spot (GLS) ratings, yield, harvest grain moisture, and lodging ratings were obtained for 16 fungicide treatments and a non-treated control on a known high yielding, susceptible hybrid, Pioneer Brand 3394, grown under heavy gray leaf spot disease pressure on the University's Whitethorne-Kentland Experimental Farm, Montgomery Co., VA. Prior to planting on a Hayter silt loam, pH 6.8, a fertilizer containing 200 lb N, 45 lb P, and 25 lb K per acre was broadcast. The experimental design was a randomized complete block replicated four times with plots consisting of four 25-ft rows spaced 30 in. apart and seeded at a rate of 25,000 seeds/A. The plots were no-tillage planted with an Almaco two-row cone planter on 9 May into a field continuously cropped to corn since 1986 and abundantly covered with corn debris naturally infested with *Cercospora zeae-maydis* (Czm), the causal agent of gray leaf spot. On 13 Jul when lesions had developed from the base of plants to half way to the ear leaf the first applications of fungicides were made. At this time 5% of plants were silking. Spray solutions were applied in a volume of 27 gal/A with a single Tee Jet@ 8004 flat fan nozzle at 40 psi. Second applications of some of the fungicides were made on 27 Jul, depending on protocol. Leaf blighting or GLS reaction was assessed two times and is reported as a disease severity index (0-5) read in 0.1 units and as percentage leaf area blighted. Plots were also rated for percentage stalks lodged just prior to harvest, grain moisture at harvest, bushel weight, and grain yield in bu/A adjusted to 15.5% moisture. Grain was harvested on 17 Oct with a Massey Ferguson 8XP-plot combine.

Moisture in the soil profile at planting and weather conditions for thirty days after planting provided conditions favorable for vigorous stand establishment. GLS lesions were first observed on the lower leaves of susceptible hybrids by mid-June. From late June through September, temperatures were mild to warm with abundant rainfall. These conditions were moderately favorable for disease development. GLS lesions had moved to the ear leaf and above on the non-treated control by 21 Jul, and to the top of the plants by 12 Aug. Significant differences in GLS ratings among treatments were apparent at all rating periods. At harvest, statistically significant differences among treatments occurred in grain yield, grain moisture at harvest, and bushel weights. All fungicide treatments, but Caramba 90SC at 9.5 and 17.0 fl. oz. product/A applied twice, provided statistically ( $P \leq 0.05$ ) greater grain yields (18.9-50.6 bu/A) over the non-treated control. All fungicide applications, either once or twice, provided statistically significant ( $P \leq 0.05$ ) over the non-treated control except Caramba 90SC at 17.0 fl. oz./A applied twice once. All but five fungicide applications provided statistically ( $P \leq 0.05$ ) increased bushel weights over the non-treated control (by 1.1 – 2.3 lbs). No phytotoxicity was observed for any fungicide treatment.

**Table 28. Evaluation of foliar fungicides for the control of gray leaf spot of corn in Virginia, 2005.**

Treatment in fl oz product/A and timing <sup>z</sup>	GLS Severity Index (0-5) <sup>y</sup>		GLS Blighted Percentage Area <sup>x</sup>		Grain <sup>w</sup> %H <sub>2</sub> O 17 Oct	Bu wt <sup>u</sup> in lb 17 Oct	Yield <sup>t</sup> Bu/A 17 Oct	
	12 Aug	2 Sep	12 Aug	2 Sep				
Non-treated	3.00	4.85	35.0	96.0	21.4	57.1	94.5	
Caramba 90SC 9.5	2.40	4.45	16.5	86.0	21.6	57.8	109.8	
Caramba 90SC 13.5	2.30	4.53	13.5	88.0	21.8	57.9	113.4	
Caramba 90SC 17.0	2.28	4.40	13.0	85.0	22.1	58.2	107.0	
Caramba 90SC 6.14	2.20	4.08	10.0	76.8	23.2	59.0	137.5	
+ Headline 250EC 3.56								
Caramba 90SC 9.05	2.18	3.73	10.3	60.5	24.2	59.4	130.4	
+ Headline 250EC 5.35								
Headline 250EC 6.2	2.23	3.80	10.8	65.0	23.3	58.7	145.1	
Quilt 200SC 13.68	2.25	4.18	12.0	78.0	23.0	58.6	141.1	
Headline 250EC 6.2	2.18	3.58	10.3	55.0	24.1	58.9	141.6	
+ Induce 0.6% v/v								
Headline 250EC 6.2	2.13	3.63	9.3	57.3	24.1	58.8	141.9	
+ Induce 0.6% v/v								
Quadris 2.08SC 9.2	2.28	4.30	12.3	82.0	22.0	57.6	119.6	
Quadris 2.08SC 9.2	2.23	3.98	10.8	72.5	23.5	59.0	142.8	
Quilt 1.66EC 14.0	2.20	4.30	10.0	82.3	21.7	57.5	115.9	
Quilt 1.66EC 14.0	2.13	3.65	9.3	58.8	23.7	59.2	136.0	
Stratego 250EC 10.0	2.28	4.38	12.3	84.0	21.5	57.5	118.2	
Stratego 250EC 10.0	2.18	3.70	9.8	61.3	23.6	59.4	135.3	
Headline 250EC 9.2	2.20	4.15	10.5	77.3	22.3	58.1	116.1	
LSD (P≤0.05)	=	0.14	0.26	4.1	9.8	0.9	1.0	16.0
Standard Deviation	=	0.10	0.18	2.9	6.9	0.6	0.7	11.2
Coefficient of Variation	=	4.32	4.37	22.5	9.2	2.8	1.2	8.9

<sup>z</sup>Treatment and timing: Fungicide(s) applied in fl. oz. product/A. Timing of applications was as follows: 1 = a single application (12Jul) at 5% silking; and 2 = an application at 5% silking (13 Jul) followed by a second application 14 days later (27 Jul).

<sup>y</sup>GLS Disease Severity Index: 0 = no gray leaf spot lesions; 1 = trace of lesions below ear, none above; 2 = many lesions below ear, trace above; 3 = severe lesion development below ear, all leaves above with lesions; 4 = all leaves with severe lesion development, but green tissue still visible; 5 = all leaves dry and dead.

<sup>x</sup>Percentage leaf area of entire plant blighted by Czm (0-100%)

<sup>w</sup>Grain moisture at harvest expressed in percentage.

<sup>u</sup>Bushel weight in pounds at a standard 15.5% grain moisture.

<sup>t</sup>Yield in bushels per acre at a standard 15.5% grain moisture.

**Table 29. Resistance and agronomic characters of corn hybrids under natural gray leaf spot disease pressure, Montgomery Co., VA, 2005.**

Gray leaf spot disease ratings, grain harvest moisture, bushel weights, and grain yields were obtained for 14 corn hybrids and a known high-yielding susceptible check hybrid, Pioneer Brand 3394 (highlighted in gray in the table below), grown under heavy gray leaf spot disease pressure on VPI&SU's Whitethorne-Kentland Experimental Farm, Montgomery Co., VA. Prior to planting on a Hayter silt loam, pH 6.8, a fertilizer containing 200 lb/A N, 45 lb/A P and 25 lb/A K was broadcast. The experimental design was a randomized complete block replicated four times with plots consisting of four 25-ft rows spaced 30 in. apart and seeded at a rate of 25,000 seeds/A. The plots were no-tillage planted on 9 May into a field continuously cropped to corn since 1986 and abundantly covered with corn debris naturally infested with *Cercospora zae-maydis*, the causal agent of gray leaf spot. Leaf blighting or gray leaf spot (GLS) reaction was assessed three times and is reported as a GLS Severity Index (0-5) read in 0.1 units and as percentage of total leaf area blighted. Ratings were made on plants from the middle two rows of plots, excluding plants adjacent to ends of plots. Hybrids were also rated for percentage of stalks lodged just prior to harvest, grain moisture at harvest, bushel weight, and grain yield adjusted to 15.5% moisture. Grain was mechanically harvested on 17 Oct with a Massey Ferguson 8XP plot combine.

Moisture in the soil profile at planting and weather for thirty days after planting provided conditions favorable for vigorous stand establishment. GLS lesions were first observed on the lower leaves of susceptible hybrids by late June. From late June through September, temperatures were mild to warm with less than normal rainfall. These conditions, however, with periods of dew were moderately favorable for disease development. GLS lesions had moved to the ear leaf and above on the more susceptible hybrids by 24 Jul and to the top of these hybrids by 12 Aug. Significant differences in GLS ratings among hybrids were apparent at both rating periods. At harvest, statistically significant differences among hybrids occurred in grain yield, grain moisture at harvest, and bushel weights. Generally those hybrids that blighted least had the higher yields. The susceptible check hybrid, Pioneer Brand 3394, the most heavily blighted, ranked 15<sup>th</sup> for grain yield of the 15 hybrids evaluated and yielded 71.5 bushels less than the highest yielding hybrid in the test.

Hybrid <sup>z</sup>	<u>GLS Index (0-5)<sup>y</sup></u>		<u>GLS % Blight<sup>x</sup></u>		<u>Grain<sup>w</sup></u>	<u>Bu wt<sup>v</sup></u>	<u>Yield<sup>u</sup></u>
	12 Aug	2 Sep	12 Aug	2 Sep	(%H <sub>2</sub> O) 17 Oct	(lb) 17 Oct	(bu/A) 17 Oct
MYCOGEN 2J-787	2.15	2.85	9.5	31.3	24.0	54.7	164.7 <sup>t</sup>
MYCOGEN 2T-780	2.15	3.03	9.5	36.3	23.7	56.0	160.1
MYCOGEN 2H-789	2.20	3.35	10.0	45.3	23.7	57.8	153.7
SD. LH4. YHG-1-A2	2.15	3.43	9.5	47.8	24.4	56.1	140.9
MYCOGEN 2J-774	2.23	3.40	11.3	47.3	23.2	55.8	140.1
SD. LH4. YHG-1-A3	2.18	3.70	10.3	60.0	24.0	56.4	140.0
SD. LH4. YHG-1-A1	2.25	3.73	11.5	61.3	24.4	55.8	139.1
SD. LH4. YHG-1-A6	2.23	3.93	11.3	71.3	24.2	56.2	138.4
SD. LH4. YHG-1-A10	2.20	3.73	10.5	61.8	23.5	56.0	133.4
SD. LH4. YHG-1-A5	2.18	3.45	9.8	49.0	24.3	56.1	133.0
SD. LH4. YHG-1-A8	2.23	3.73	11.3	61.3	23.9	55.9	127.8
SD. LH4. YHG-1-A4	2.15	3.55	9.5	53.8	24.2	55.7	127.6
SD. LH4. YHG-1-A9	2.18	3.63	9.8	59.3	23.5	56.0	127.0
SD. LH4. YHG-1-A7	2.23	3.68	11.3	58.8	24.2	55.5	122.0
<b>PIONEER BRAND 3394</b>	<b>3.10</b>	<b>4.75</b>	<b>37.8</b>	<b>93.5</b>	<b>21.3</b>	<b>56.2</b>	<b>93.5</b>
Least Significant Difference ( $P \leq 0.05$ )=	0.11	0.18	2.2	7.3	1.0	0.8	19.2
Standard Deviation =	0.08	0.12	1.5	5.1	0.7	0.6	7.7
Coefficient of Variation =	3.47	3.45	12.6	9.2	3.0	1.0	11.3

<sup>z</sup>Hybrid entry planted in four 25-ft rows spaced 2.5 ft apart and replicated four times.

<sup>y</sup>GLS Disease Severity Index: 0 = no gray leaf spot lesions; 1 = trace of lesions below ear, none above; 2 = many lesions below ear, trace above; 3 = severe lesion development below ear, all leaves above with lesions; 4 = all leaves with severe lesion development, but green tissue still visible; 5 = all leaves dry and dead.

<sup>x</sup>GLS blighting expressed as percentage total leaf area blighted.

<sup>w</sup>Grain moisture at harvest expressed in percentage H<sub>2</sub>O.

<sup>v</sup>Bushel weight expressed in lb at a standard 15.5% grain moisture.

<sup>u</sup>Yield expressed in bu/A at a standard 15.5% grain moisture.

<sup>t</sup>Means differ significantly ( $P \leq 0.05$ ) by Fischer's LSD.

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