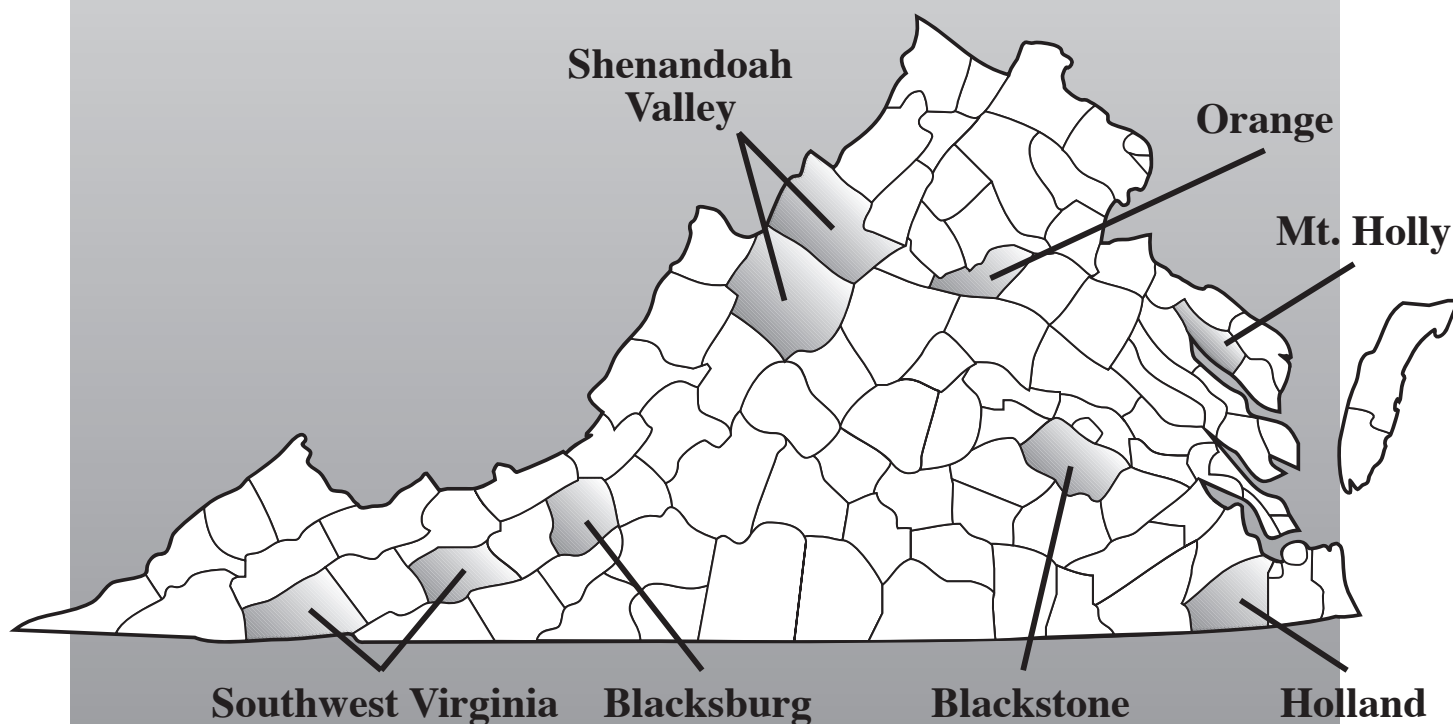


Virginia Corn Hybrid & Management Trials 2004



VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

Virginia Cooperative Extension
Knowledge for the Commonwealth



VIRGINIA STATE UNIVERSITY

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COMPANIES PARTICIPATING IN THE 2004 CORN HYBRID TRIALS

Company	Brand	Address
AUGUSTA SEED CORP.	AUGUSTA	106 FAIRBURN RD MT SOLON, VA 22843
BIO GENE SEEDS	BIO GENE	5491 TRI COUNTY HWY SARDINIA, OH 45171
DOEBLERS INC.	DOEBLERS	202 TIADAGHTON AVE JERSEY SHORE, PA 17740
GARST SEED CO.	GARST	4850 W 350 N DANVILLE, IN 46122-8881
HUBNER SEED CO.	HUBNER	10280 W STATE RD 28 WEST LEBANON, IN 47991
HYTEST SEEDS	HYTEST	1404 COLORADO ST SUITE 124 BOULDER CITY, NV 89005
MID-ATLANTIC SEEDS	MID-ATLANTIC	204 ST CHARLES WAY YORK, PA 17403
MONSANTO	DEKALB & ASGROW	800 N LINDBERGH BLVD ST LOUIS, MO 63167
PIONEER, A DUPONT CO.	PIONEER	6767 OLD MADISON PIKE SUITE 110 HUNTSVILLE, AL 35806
ROYSTER-CLARK, INC	VIGORO SEEDS	717 ROBINSON ROAD SE WASHINGTON C.H., OH 43160
SEED CONSULTANTS, INC.	SEED CONSULTANTS	PO BOX 370 WASHINGTON COURTHOUSE, OH 43160
SOUTHERN STATES COOP., INC.	SOUTHERN STATES	6606 WEST BROAD ST RICHMOND, VA 23260
SYNGENTA SEEDS, INC.	NK BRAND	1993 WESLEY LANE GREENVILLE, NC 27858
T.A. SEEDS	T.A. SEEDS	PO BOX 300 AVIS, PA 17721

VIRGINIA CORN HYBRID TRIALS IN 2004

Coordinated by Wade Thomason, Harry Behl, and Elizabeth Rucker
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Dave Starner; Steve Gulick; Alvin Hood; Tom Stanley; Jon Wooge; Phil Blevins

Performance trials of commercial corn hybrids were conducted at seven locations in Virginia in 2004. 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. 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.

Choice of Hybrids

When making hybrid selections it is important to realize that hybrids differ in their performance under different environments. Some hybrids are more adapted to a wide range of environments. Hybrid performance may 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.

2004 VIRGINIA CORN HYBRID PLOT INFORMATION

(Rates are on a per acre basis.)

Blacksburg **Whitethorne Farm**
Land Prep: Moldboard plowed; disked cultivated deep with Perfecta cultivator.
Planted: May 10, 2004
Harvested: October 20, 2004
Pesticide: 4.5 lb Force 3G® at planting; 2.1 qt Bicep II Magnum® + 1 lb Simazine® 90DF + 1 oz Python® + 3 qt Honcho Plus® preplant incorporated May 7, 2004; 3 oz Callisto® + 2/3 oz Accent® June 9, 2004.
Fertilizer: 80-80-80 preplant incorporated April 21, 2004; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 100 lb N sidedressed June 14, 2004.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Hayter
Cooperator: J. Wooge

Blackstone Center **Southern Piedmont Agricultural Research & Extension**
Planted: April 22, 2004
Harvested: October 8, 2004
Pesticide: 4.5 lb Force 3G® at planting; 1.5 pt Dual II Magnum® April 23, 2004; 7 oz Callisto® April 26, 2004.
Fertilizer: 100-100-100 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 80 lb N May 25, 2004.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Wedowee
Cooperators: Ned Jones

Holland **Tidewater Agricultural Research & Extension Center**
Land Prep: Chisel-plowed and field conditioned April 19, 2004
Planted: April 21, 2004
Harvested: September 3-4, 2004
Pesticide: 3 qt Lariat® preplant incorporated April 19, 2004 + 4.5 lb Force 3G® at planting.
Fertilizer: 1000 lb lime + 18-48-117 March 22, 2004; 60 units N April 20, 2004; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 60 units N using UAN sidedressed May 26, 2004
Plot Size: 2 rows 35' x 30" 4 replications
Soil Type: Eunola, Dragston and Rains
Cooperators: Bobby Ashburn

Mt Holly (dry) **Virginia Crop Improvement Association Farm**
Planted: April 27, 2004
Harvested: September 14, 2004
Pesticide: 2 qt Bicep II Magnum® + 1 qt Princep® + 30 oz Roundup Weathermax® preplant incorporated; 4.5 lb Force 3G® at planting.
Fertilizer: 60-40-70 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 70 lb N sidedressed May 21, 2004.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: State fine sandy loam
Cooperator: Bruce Beahm

Mt Holly (irr) **Virginia Crop Improvement Association Farm**
Planted: April 28, 2004
Harvested: September 22-23, 2004
Pesticide: 5.5 pt Lumax® + 1 qt atrazine preplant incorporated; 4.5 lb Force 3G® at planting.
Fertilizer: 80-50-80 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 110 lb N sidedressed May 26, 2004.
Irrigation: 0.75" June 16
0.75" July 1
0.75" July 4
0.75" July 11
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: State fine sandy loam
Cooperator: Bruce Beahm

Orange Center **Northern Piedmont Agricultural Research & Extension**
Planted: May 12, 2004
Harvested: October 1, 2004
Pesticide: 2.5 qt Lumax® preplant incorporated.
Fertilizer: 100-100-100-80 preplant incorporated May 12, 2004; 80 lb N sidedressed June 15, 2004.
Plot Size: 1 row 30' x 30" 4 replications
Soil Type: Davidson silty clay loam
Cooperators: D. E. Starner, S. A. Glick, and W. A. Hood

Washington County (Thanks to David Johnson and Highland Dairy)
Planted: May 7, 2004
Harvested: October 22, 2004
Pesticide: 3 pt Gramoxone® + 3 qt Lumax® + 1 qt atrazine April 26, 2004; 4.5 lb Force 3G® at planting.
Fertilizer: 160-50-150 preplant; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 40 units N sidedressed.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Monongahela fine sandy loam
Cooperators: Phil Blevins and David Johnson

Shenandoah Valley (Rockingham County - Thanks to Glenn Heatwole & Family at Golden Valley Farm)
Planted: April 29, 2004
Harvested: October 5, 2004
Pesticide: 5 pt Lumax® preplant incorporated + 4.5 lb Force 3G® at planting
Fertilizer: 3 tons lime + 65-0-0-10 preplant incorporated; 17 gal 20-10-0-2S-.83B-.33Zn at planting; 75 units N sidedressed.
Plot Size: 2 rows 25' x 30" 4 replications
Soil Type: Monongahela fine sandy loam
Cooperators: Tom Stanley and Glenn Heatwole

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

Table 1. 2004 RELATIVE YIELD* of corn hybrids entered in three or more locations.

Very Early Maturity Brand	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washingtonton	Mean
NK	N65-M7	103	99	107	---	108	---	---	---	104
PIONEER BRAND	34B97	105	94	111	---	98	---	---	---	102
TRISLER BY AUGUSTA	T03-84	108	105	95	---	---	---	---	---	102
SEED CONSULTANTS	SC-10B95	---	103	102	---	---	98	---	---	101
MID-ATLANTIC	MA9060YG	98	95	108	---	---	---	---	---	100
AUGUSTA	A04-05	93	97	106	---	---	---	---	---	98
PIONEER BRAND	34B23	---	108	57	---	98	107	104	---	96
TRISLER BY AUGUSTA	T5160CB	90	102	91	---	---	---	---	---	94
AUGUSTA	T03-80	88	93	98	---	---	---	---	---	92
DOEBLERS	469RYG	82	79	52	49	72	62	83	56	69

Early Maturity Brand	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washingtonton	Mean
TRISLER BY AUGUSTA	T5337CB	122	124	108	---	117	111	---	---	116
SEED CONSULTANTS	SC-11B55	---	113	127	---	---	106	---	---	115
TRISLER BY AUGUSTA	5340Bt	108	101	128	---	---	---	---	---	111
SEED CONSULTANTS	SC-11B45	---	113	112	---	---	105	---	---	110
TRISLER BY AUGUSTA	T5244RRCB	110	116	99	---	---	---	---	---	109
PIONEER BRAND	33V15	102	100	121	128	103	107	102	108	108
PIONEER BRAND	33M54	101	104	118	---	---	111	104	113	108
DEKALB	DKC63-81(RR2/YGCB)	---	103	110	113	105	---	---	---	108
ASGROW	RX702YG	---	116	102	110	108	---	---	---	108
VIGORO	V52Y41	110	111	95	---	112	---	---	---	108
HUBNER	H4497Bt	---	---	---	124	102	96	104	113	107
AUGUSTA	A5338	97	114	113	---	---	---	---	---	107
TRISLER BY AUGUSTA	T5255RRCB	104	110	103	---	---	---	---	---	106
MID-ATLANTIC	MA7135YG	104	111	104	---	---	---	---	---	106
TRISLER BY AUGUSTA	5244RR	103	105	109	---	---	---	---	---	106
TRISLER BY AUGUSTA	T-04-69CB	100	112	104	---	---	---	---	---	105
AUGUSTA	A5337	101	109	105	---	---	---	---	---	105
DOEBLERS	784XYG	108	102	127	107	106	105	99	81	104
SEED CONSULTANTS	SC-11B65	---	102	111	---	---	98	---	---	103
DEKALB	DKC63-80(RR2)	---	99	110	112	95	---	---	---	103
PIONEER BRAND	33J57	---	---	---	121	105	95	99	86	102
DOEBLERS	648RYG	98	104	109	129	110	80	98	97	102
DEKALB	DKC57-84(YGCB)	---	108	109	99	96	---	---	---	102

Table 1, continued. 2004 RELATIVE YIELD* of corn hybrids entered in three or more locations.

Early Maturity Brand		Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washington	Mean
GARST AUGUSTA HUBNER TRISLER BY AUGUSTA TRISLER BY AUGUSTA VIGORO SOUTHERN STATES DEKALB NK AUGUSTA VIGORO VIGORO NK AUGUSTA TRISLER BY AUGUSTA SEED CONSULTANTS ASGROW NK AUGUSTA VIGORO AUGUSTA AUGUSTA TRISLER BY AUGUSTA DEKALB ASGROW		8450IT	97	99	109	---	---	---	---	---	102
		3387	103	92	114	---	---	---	---	---	102
		H3522	---	---	---	110	97	98	97	104	101
		T03-11CB	112	108	82	---	---	---	---	---	101
		5253Bt	108	102	94	---	---	---	---	---	101
		V53Y41	---	106	95	---	99	---	---	---	100
		692Bt	94	95	108	---	101	---	100	---	99
		DKC60-19(RR2/YGCB)	99	104	91	108	97	---	---	---	99
		N70-T9	99	99	99	---	100	---	---	---	99
		4587	101	94	103	---	---	---	---	---	99
		V5450	85	95	100	116	95	99	99	---	97
		V5240	---	100	91	98	99	99	99	---	97
		N75-C4	---	95	99	---	97	---	---	---	97
		4487	103	97	92	---	---	---	---	---	97
		T04-106CB	98	87	108	---	---	---	---	---	97
		SC1144	---	95	96	---	---	---	96	---	96
		RX664RR/YG	---	100	92	99	94	---	---	---	96
		NX7982	---	95	94	---	100	---	---	---	96
		A04-02	88	98	99	---	---	---	---	---	95
		V54R66	86	91	103	---	94	---	---	---	93
		A04-04	90	96	91	---	---	---	---	---	92
		A5234	86	94	97	---	---	---	---	---	92
		T5245CB	100	99	70	---	---	---	---	---	91
		DKC58-80(RR2/YGCB)	---	98	87	69	98	---	---	---	89
		RX664	---	94	94	72	84	---	---	---	86
	Medium to Mid-Full Maturity Brand		Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washington
PIONEER BRAND TRISLER BY AUGUSTA TRISLER BY AUGUSTA TRISLER BY AUGUSTA TRISLER BY AUGUSTA PIONEER BRAND VIGORO PIONEER BRAND NK		31G66	103	103	120	89	121	122	107	130	112
		T04-94CB	110	98	118	---	114	---	---	---	110
		T5337RRCB	106	104	109	---	113	110	111	---	109
		T5338CB	112	109	105	---	---	---	---	---	109
		T04-102CB	---	120	95	---	---	105	---	---	108
		31B13	107	---	---	107	107	---	---	---	107
		V58Y41	104	104	101	---	104	113	---	109	106
		31G98	102	102	106	103	105	112	---	---	105
		N82-A7	108	101	111	---	---	---	97	---	104

Table 1, continued. 2004 RELATIVE YIELD* of corn hybrids entered in three or more locations.

Brand	Medium to Mid-Full Maturity	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Blackstone	Orange	Augusta	Blacksburg	Washington	Mean
AUGUSTA		3562	---	93	117	---	103	---	---	---	104
GARST		8292YG1	106	102	101	---	---	---	---	---	103
GARST		8350YG1	106	101	103	---	---	---	---	---	103
SOUTHERN STATES		E94002	111	100	97	---	100	---	103	---	102
TRISLER BY AUGUSTA		T-03-19CB	110	90	96	---	111	---	---	---	102
HYTEST		HT7799Bt	99	108	96	---	---	103	---	---	101
TRISLER BY AUGUSTA		A04-01	---	101	101	---	---	97	---	---	100
TRISLER BY AUGUSTA		T04-104RR	---	89	103	---	---	108	---	---	100
AUGUSTA		T03-21	95	97	108	---	---	---	---	---	100
PIONEER BRAND		32R25	103	88	101	103	99	---	---	---	98
SOUTHERN STATES		849CL	94	94	90	---	95	---	109	---	97
HYTEST		HT7683	---	90	98	---	---	103	---	---	97
AUGUSTA		9561	---	105	81	---	102	---	---	---	96
TRISLER BY AUGUSTA		T5965RR	96	92	101	---	---	---	---	---	96
AUGUSTA		A04-03	---	105	57	---	---	105	---	---	92
NK		N83-Z8	---	88	73	---	---	---	114	---	91
HYTEST		HT7729HX/LL	---	98	79	---	---	97	---	---	91
DOEBLERS		760DT	80	89	108	---	79	99	95	107	90
SOUTHERN STATES		842RR	95	103	72	---	81	---	99	---	90
TRISLER BY AUGUSTA		T-04-31CB	---	97	86	---	---	87	---	---	90
T.A. SEEDS		TA6953	---	90	73	---	98	96	---	---	90
SOUTHERN STATES		804RR	95	92	74	---	95	---	90	---	89
T.A. SEEDS		TA7000	---	84	89	---	88	93	---	---	89

* 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.

Table 2. Two Year Average RELATIVE YIELD* (2003-2004) of corn hybrids entered in three or more locations each year.*

Very Early Maturity			
Brand	Hybrid	# Observations	Relative Yield
NK	N65-M7	32	103
AUGUSTA	A04-05	23	99
Early Maturity			
Brand	Hybrid	# Observations	Relative Yield
TRISLER BY AUGUSTA	T5337CB	31	114
TRISLER BY AUGUSTA	5340Bt	23	110
VIGORO	V52Y41	31	108
PIONEER BRAND	33M54	38	108
AUGUSTA	A5338	23	107
AUGUSTA	A5337	23	105
PIONEER BRAND	33V15	60	103
TRISLER BY AUGUSTA	5244RR	23	102
TRISLER BY AUGUSTA	T-03-19CB	27	102
DEKALB	DKC57-84(YGCB)	29	101
PIONEER BRAND	33J57	34	101
AUGUSTA	3387	23	101
SOUTHERN STATES	692Bt	31	101
ASGROW	RX664RR/YG	31	100
TRISLER BY AUGUSTA	5253Bt	24	100
PIONEER BRAND	34B23	38	99
NK	N75-C4	27	99
AUGUSTA	4587	24	99
PIONEER BRAND	34B97	28	98
NK	NX7982	26	98
DEKALB	DKC60-19(RR2/YGCB)	33	97
AUGUSTA	4487	24	97
VIGORO	V54R66	47	94
ASGROW	RX664	30	91
Medium to Mid-Full Maturity			
Brand	Hybrid	# Observations	Relative Yield
PIONEER BRAND	31G66	62	114
VIGORO	V58Y41	51	109
PIONEER BRAND	31G98	52	108
NK	N82-A7	36	104
AUGUSTA	3562	24	102
PIONEER BRAND	32R25	30	101
AUGUSTA	2056	24	101
SOUTHERN STATES	849CL	27	100
SOUTHERN STATES	842RR	32	98
T.A. SEEDS	TA6953	35	97
TRISLER BY AUGUSTA	T5965RR	24	96
DOEBLERS	760DT	55	91

* 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.

Table 3. Three Year Average RELATIVE YIELD* (2002-2004) of corn hybrids entered in three or more locations each year.*

Very Early Maturity Brand	Hybrid	# Observations	Relative Yield
NK BRAND	N65-M7	53	107
PIONEER BRAND	34B23	57	99
PIONEER BRAND	34B97	40	99

Early Maturity Brand	Hybrid	# Observations	Relative Yield
AUGUSTA	3187	34	107
AUGUSTA	3387	39	106
PIONEER BRAND	32R25	47	104
PIONEER BRAND	33J57	49	102
SOUTHERN STATES	692Bt	43	102
AUGUSTA	4587	40	100
DEKALB	DKC60-19(RR/YGCB)	44	99
AUGUSTA	4487	36	99
ASGROW	RX664	42	96

Medium to Mid-Full Maturity Brand	Hybrid	# Observations	Relative Yield
PIONEER BRAND	31G98	72	104
AUGUSTA	3562	47	97
SOUTHERN STATES	849CL	51	96
DOEBLERS	760DT	83	94
SOUTHERN STATES	842RR	55	92

* 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.

Table 4. Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2004 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
TRISLER BY AUGUSTA	T03-84	180	19.0	54.9
PIONEER BRAND	34B97	175	17.8	57.8
NK	N65-M7	171	16.8	54.9
MID-ATLANTIC	MA9060YG	163	16.6	55.0
AUGUSTA	A04-05	155	15.6	56.8
TRISLER BY AUGUSTA	T5160CB	150	17.4	56.6
AUGUSTA	T03-80	147	17.2	54.5
DOEBLERS	469RYG	137	13.9	57.7
Maturity Average		161	16.8	56.3
C.V.		6	3.3	1.4
L.S.D. (0.05)		13	0.8	1.2

* Reported at 15.5% moisture. There was no lodging at this location.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
TRISLER BY AUGUSTA	T5337CB	204	21.6	52.2
TRISLER BY AUGUSTA	T03-11CB	187	19.3	58.5
VIGORO	V52Y41	184	17.1	55.6
TRISLER BY AUGUSTA	T5244RRCB	184	17.3	55.0
TRISLER BY AUGUSTA	5253Bt	180	18.5	55.6
TRISLER BY AUGUSTA	5340Bt	180	18.4	53.1
DOEBLERS	784XYG	179	21.2	52.5
TRISLER BY AUGUSTA	T5255RRCB	174	17.5	55.2
TRISLER BY AUGUSTA	5244RR	173	17.1	53.4
MID-ATLANTIC	MA7135YG	173	18.0	53.2
AUGUSTA	4487	172	17.4	54.2
AUGUSTA	3387	171	16.2	54.3
PIONEER BRAND	33V15	170	18.6	58.9
PIONEER BRAND	33M54	169	19.5	58.1
AUGUSTA	4587	169	17.2	53.2
AUGUSTA	A5337	169	19.1	53.7
TRISLER BY AUGUSTA	T5245CB	167	17.8	54.4
NK	N70-T9	166	17.5	54.4
TRISLER BY AUGUSTA	T-04-69CB	166	18.2	53.2
DEKALB	DKC60-19(RR2/YGCB)	165	17.7	56.1
TRISLER BY AUGUSTA	T04-106CB	164	18.6	55.2
GARST	8450IT	163	17.7	54.0
DOEBLERS	648RYG	163	17.7	54.1
AUGUSTA	A5338	162	18.4	51.1
SOUTHERN STATES	692Bt	157	19.4	56.2
AUGUSTA	A04-04	151	15.6	56.2
AUGUSTA	A04-02	147	17.0	55.1
VIGORO	V54R66	144	16.9	55.4
AUGUSTA	A5234	143	16.8	56.0

Table 4, continued. Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2004 - Virginia Tech Trials.

Early Maturity, continued. Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
VIGORO	V5450	142	17.5	56.6
Maturity Average		168	18.0	54.9
C.V.		7	3.6	1.9
L.S.D. (0.05)		16	0.9	1.5

* Reported at 15.5% moisture. There was no lodging at this location.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
TRISLER BY AUGUSTA	T5338CB	188	19.4	51.6
SOUTHERN STATES	E94002	186	18.1	54.6
TRISLER BY AUGUSTA	T-03-19CB	184	19.5	53.9
TRISLER BY AUGUSTA	T04-94CB	184	22.2	58.4
DEKALB	DKC69-71(RR2/YGCB)	183	21.1	56.1
PIONEER BRAND	31B13	179	19.4	56.5
NK	N82-A7	179	20.6	54.4
TRISLER BY AUGUSTA	T5337RRCB	177	20.2	53.8
GARST	8350YG1	176	18.8	55.9
GARST	8292YG1	176	21.6	55.2
VIGORO	V58Y41	174	21.0	52.8
PIONEER BRAND	32R25	173	19.0	55.6
PIONEER BRAND	31G66	172	19.4	54.7
BOR	BOR	171	17.2	57.4
PIONEER BRAND	31G98	171	19.8	55.2
HYTEST	HT7799Bt	166	20.5	55.8
TRISLER BY AUGUSTA	T5965RR	159	21.3	57.0
SOUTHERN STATES	842RR	159	19.5	50.6
AUGUSTA	T03-21	158	21.0	57.5
SOUTHERN STATES	804RR	158	18.3	55.6
SOUTHERN STATES	849CL	157	18.9	50.4
DOEBLERS	760DT	134	18.5	57.0
Maturity Average		170	19.8	55.0
C.V.		6	3.4	1.5
L.S.D. (0.05)		15	1.0	1.2
Location Average		167	18.4	55.1

* Reported at 15.5% moisture. There was no lodging at this location.

Table 5. Two-year average corn yields at the Tidewater AREC at HOLLAND, VA in 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
NK	N65-M7	184	18.5	55.0
PIONEER BRAND	34B97	167	18.1	58.0
AUGUSTA	A04-05	164	17.0	57.0

Maturity Average 172 17.9 56.7

C.V. 7 4.1 1.7

L.S.D. (0.05) 13 0.8 1.6

* Reported at 15.5% moisture. There was no lodging at this location.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
TRISLER BY AUGUSTA	T5337CB	214	22.6	52.0
VIGORO	V52Y41	192	18.7	55.8
TRISLER BY AUGUSTA	5340Bt	192	20.3	53.3
TRISLER BY AUGUSTA	5253Bt	184	20.7	55.5
TRISLER BY AUGUSTA	5244RR	181	18.3	53.7
PIONEER BRAND	33M54	180	20.5	58.0
AUGUSTA	3387	179	17.7	54.5
AUGUSTA	A5338	179	19.7	51.0
AUGUSTA	4587	178	19.2	53.3
PIONEER BRAND	33V15	177	19.8	58.7
AUGUSTA	4487	171	18.5	54.3
AUGUSTA	A5337	166	20.3	53.8
VIGORO	V54R66	159	18.5	55.3

Maturity Average 181 19.6 54.5

C.V. 9 4.6 1.2

L.S.D. (0.05) 16 0.9 1.0

* Reported at 15.5% moisture. There was no lodging at this location.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
PIONEER BRAND	31B13	212	20.8	56.7
DEKALB	DKC69-71(RR2/YGCB)	204	22.7	56.0
PIONEER BRAND	31G66	199	22.7	55.0
TRISLER BY AUGUSTA	T-03-19CB	196	21.0	54.0
PIONEER BRAND	31G98	195	21.3	55.0
VIGORO	V58Y41	194	22.3	52.8
PIONEER BRAND	32R25	187	20.1	55.7
NK	N82-A7	184	21.6	54.5
TRISLER BY AUGUSTA	T5965RR	166	22.8	57.3
DOEBLERS	760DT	148	19.5	57.0

Maturity Average 188 21.5 55.4

C.V. 8 4.8 1.8

L.S.D. (0.05) 15 1.1 1.6

Location Average 182 20.1 55.1

* Reported at 15.5% moisture. There was no lodging at this location.

Table 6. Three-year average corn yields at the Tidewater AREC at HOLLAND, VA in 2002, 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
NK	N65-M7	177	17.3	55.4
PIONEER BRAND	34B97	164	17.2	57.4
Maturity Average		170	17.3	56.4
C.V.		8	4.3	1.9
L.S.D. (0.05)		12	0.7	1.3

* Reported at 15.5% moisture. There was no lodging at this location.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
AUGUSTA	3187	179	18.7	52.1
PIONEER BRAND	32R25	178	18.9	57.0
AUGUSTA	3387	174	16.9	54.9
AUGUSTA	4487	170	17.6	54.8
AUGUSTA	4587	169	18.2	54.4
Maturity Average		172	17.8	54.5
C.V.		9	4.9	1.0
L.S.D. (0.05)		15	0.9	0.7

* Reported at 15.5% moisture. There was no lodging at this location.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
PIONEER BRAND	31B13	196	19.7	57.1
PIONEER BRAND	31G98	185	19.6	56.5
DOEBLERS	760DT	148	18.6	57.2
Maturity Average		177	19.4	56.8
C.V.		8	3.5	1.9
L.S.D. (0.05)		12	0.6	1.4
Location Average		174	18.3	55.7

* Reported at 15.5% moisture. There was no lodging at this location.

Table 7. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2004 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
PIONEER BRAND	34B23	208	18.9	58.9
TRISLER BY AUGUSTA	T03-84	201	21.4	54.9
SEED CONSULTANTS	SC10B95	199	21.6	53.9
TRISLER BY AUGUSTA	T5160CB	196	18.4	57.5
NK	N65-M7	191	19.3	55.5
AUGUSTA	A04-05	186	18.3	57.8
MID-ATLANTIC	MA9060YG	183	18.3	56.6
PIONEER BRAND	34B97	181	19.7	57.9
AUGUSTA	T03-80	180	19.7	55.1
DOEBLERS	469RYG	152	15.9	57.6
Maturity Average		190	19.4	56.7
C.V.		6	3.7	2.5
L.S.D. (0.05)		15	1.0	2.0

* Reported at 15.5% moisture. There was no lodging at this location.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
TRISLER BY AUGUSTA	T5337CB	239	22.9	52.2
TRISLER BY AUGUSTA	T5244RRCB	224	19.9	55.5
ASGROW	RX702YG	223	19.6	57.4
AUGUSTA	A5338	220	21.4	53.0
SEED CONSULTANTS	SC11B45	218	22.3	51.9
SEED CONSULTANTS	SC11B55	217	22.0	52.8
TRISLER BY AUGUSTA	T-04-69CB	216	21.5	53.3
MID-ATLANTIC	MA7135YG	215	21.6	53.4
VIGORO	V52Y41	213	20.9	54.5
TRISLER BY AUGUSTA	T5255RRCB	211	21.1	53.4
AUGUSTA	A5337	211	21.4	53.6
DEKALB	DKC57-84(YGCB)	208	18.8	57.9
TRISLER BY AUGUSTA	T03-11CB	208	23.6	55.3
VIGORO	V53Y41	204	18.8	59.3
TRISLER BY AUGUSTA	5244RR	202	19.8	54.6
PIONEER BRAND	33M54	201	21.3	58.3
DOEBLERS	648RYG	201	20.9	54.4
DEKALB	DKC60-19(RR2/YGCB)	200	20.3	56.6
DEKALB	DKC63-81(RR2/YGCB)	198	20.1	57.1
SEED CONSULTANTS	SC11B65	198	20.6	53.3
TRISLER BY AUGUSTA	5253Bt	197	22.6	53.4
DOEBLERS	784XYG	196	23.2	51.5
TRISLER BY AUGUSTA	5340Bt	195	21.4	54.3
VIGORO	V5240	193	19.0	55.8
ASGROW	RX664RR/YG	192	18.8	57.1
GARST	8450IT	192	20.7	53.2
DEKALB	DKC63-80(RR2)	192	20.1	55.4
PIONEER BRAND	33V15	192	21.0	59.2

Table 7, continued. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2004 - Virginia Tech Trials.

Early Maturity, continued				
Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
TRISLER BY AUGUSTA	T5245CB	191	20.9	54.4
NK	N70-T9	191	22.3	53.7
DEKALB	DKC58-80(RR2/YGCB)	189	18.1	55.2
AUGUSTA	A04-02	188	20.9	55.5
AUGUSTA	4487	187	20.5	52.6
AUGUSTA	A04-04	186	17.8	57.9
PIONEER BRAND	3140	185	21.0	53.9
VIGORO	V5450	184	20.3	56.7
NK	N75-C4	184	22.1	53.3
NK	NX7982	184	21.3	53.3
SEED CONSULTANTS	SC1144	183	21.1	56.9
SOUTHERN STATES	692Bt	183	21.1	56.4
ASGROW	RX664	181	18.5	56.2
AUGUSTA	A5234	181	18.5	57.4
AUGUSTA	4587	181	21.2	54.2
AUGUSTA	3387	178	19.8	54.5
VIGORO	V54R66	175	19.4	56.0
TRISLER BY AUGUSTA	T04-106CB	169	21.1	55.1
Maturity Average		196	20.7	55.0
C.V.		9	3.3	1.7
L.S.D. (0.05)		24	1.0	1.3

* Reported at 15.5% moisture. There was no lodging at this location.

Medium to Mid-Full Maturity				
Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu
TRISLER BY AUGUSTA	T04-102CB	232	23.3	56.4
TRISLER BY AUGUSTA	T5338CB	210	22.1	51.2
HYTEST	HT7799Bt	209	22.9	56.7
AUGUSTA	9561	203	23.8	55.8
AUGUSTA	A04-03	203	21.8	56.5
VIGORO	V58Y41	201	22.6	51.8
TRISLER BY AUGUSTA	T5337RRCB	200	23.0	52.2
PIONEER BRAND	31G66	199	22.1	54.6
SOUTHERN STATES	842RR	199	22.4	51.0
GARST	8292YG1	197	23.0	54.7
PIONEER BRAND	31G98	197	21.8	54.3
TRISLER BY AUGUSTA	A04-01	196	23.3	56.3
GARST	8350YG1	195	21.5	55.3
NK	N82-A7	195	22.1	53.1
SOUTHERN STATES	E94002	193	21.0	54.7
TRISLER BY AUGUSTA	T04-94CB	190	24.5	55.6
HYTEST	HT7729HX/LL	189	22.0	52.7
AUGUSTA	T03-21	187	23.1	56.3
TRISLER BY AUGUSTA	T-04-31CB	186	19.2	58.1
SOUTHERN STATES	849CL	181	22.6	49.6
AUGUSTA	3562	180	22.7	53.0

Table 7, continued. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2004 - Virginia Tech Trials.

Medium to Mid-Full Maturity, cont'd.		Yield*	Moist	Test Wt
Brand/Company	Hybrid	bu/A	%	lb/bu
SOUTHERN STATES	804RR	177	21.8	54.8
TRISLER BY AUGUSTA	T5965RR	176	23.5	56.0
TRISLER BY AUGUSTA	T-03-19CB	175	22.5	54.7
T.A. SEEDS	TA6953	174	21.0	57.5
HYTEST	HT7683	174	19.9	56.6
TRISLER BY AUGUSTA	T04-104RR	172	23.2	54.2
DOEBLERS	760DT	171	22.1	55.4
PIONEER BRAND	32R25	170	20.8	54.4
NK	N83-Z8	170	24.2	54.0
T.A. SEEDS	TA7000	162	21.8	56.4
Maturity Average		189	22.1	54.8
C.V.		9	2.2	1.2
L.S.D. (0.05)		23	0.7	0.9
Location Average		193	21.0	55.2

* 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 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B23	182	17.9	59.2	2
AUGUSTA	A04-05	168	16.6	58.3	2
NK	N65-M7	164	16.8	56.5	1
PIONEER BRAND	34B97	154	17.7	58.5	3

Maturity Average

167

17.3

58.1

2

C.V.

9

3.9

1.0

120

L.S.D. (0.05)

15

0.7

0.6

3

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
TRISLER BY AUGUSTA	T5337CB	196	19.6	54.3	1
AUGUSTA	A5337	184	18.9	55.0	2
VIGORO	V52Y41	176	17.7	56.2	3
AUGUSTA	A5338	175	17.4	54.9	1
PIONEER BRAND	33V15	173	18.7	59.5	1
TRISLER BY AUGUSTA	5340Bt	172	18.3	55.3	3
ASGROW	RX664RR/YG	171	16.7	57.0	5
TRISLER BY AUGUSTA	5244RR	167	17.1	55.8	1
NK	N75-C4	166	19.2	55.9	0
NK	NX7982	166	18.7	55.5	1
PIONEER BRAND	33M54	165	18.9	59.4	2
DEKALB	DKC60-19(RR2/YGCB)	163	18.1	56.5	9
TRISLER BY AUGUSTA	5253Bt	163	19.1	55.2	0
AUGUSTA	4487	162	17.9	54.1	3
DEKALB	DKC57-84(YGCB)	161	16.2	58.6	2
VIGORO	V54R66	161	17.3	57.2	2
ASGROW	RX664	160	16.3	56.4	3
SOUTHERN STATES	692Bt	160	18.0	57.3	1
AUGUSTA	3387	158	16.9	55.9	3
AUGUSTA	4587	150	18.2	56.0	2

Maturity Average

167

18.0

56.3

2

C.V.

10

3.7

1.7

100

L.S.D. (0.05)

16

0.7

1.0

2

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G66	197	20.1	56.2	1
PIONEER BRAND	31G98	175	19.0	56.2	5
VIGORO	V58Y41	174	19.8	54.0	1
SOUTHERN STATES	842RR	174	20.3	52.9	5
NK	N82-A7	173	19.8	55.9	1

Table 8, cont'd. Two-year average corn yields under DRYLAND conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2003 and 2004.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
AUGUSTA	T03-21	169	20.8	58.0	2
T.A. SEEDS	TA6953	165	18.4	58.2	0
TRISLER BY AUGUSTA	T-03-19CB	157	19.4	56.4	1
TRISLER BY AUGUSTA	T5965RR	154	21.2	58.1	2
AUGUSTA	3562	151	20.0	55.7	3
Maturity Average		169	19.9	56.2	2
C.V.		11	2.3	1.1	88
L.S.D. (0.05)		18	0.5	0.6	2
Location Average		168	18.5	56.5	2

* 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 2002, 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B23	135	18.5	58.3	6
NK	N65-M7	131	17.2	55.5	5
PIONEER BRAND	34B97	117	17.7	58.1	12

Maturity Average 128 17.8 57.2 8
C.V. 11 7.5 1.2 71
L.S.D. (0.05) 12 1.1 0.6 5

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
DEKALB	DKC60-19(RR2/YGCB)	128	17.7	56.0	14
AUGUSTA	3187	127	17.8	54.5	9
ASGROW	RX664	124	16.7	55.8	5
AUGUSTA	3387	124	17.3	55.6	10
AUGUSTA	4487	123	18.1	54.3	8
SOUTHERN STATES	692Bt	121	18.0	56.7	9
AUGUSTA	4587	116	18.4	55.6	5

Maturity Average 123 17.7 55.5 9
C.V. 13 4.9 0.9 87
L.S.D. (0.05) 13 0.7 54.8 6

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G98	127	18.6	56.3	8
SOUTHERN STATES	842RR	118	21.8	52.9	6
AUGUSTA	3562	113	21.0	55.0	12

Maturity Average 119 20.4 54.8 9
C.V. 11 2.0 1.2 84
L.S.D. (0.05) 12 0.4 0.7 6

Location Average

123 18.3 55.8 8

* 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 2004 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B97	213	18.1	58.0	9
MID-ATLANTIC	MA9060YG	208	15.7	55.2	20
NK	N65-M7	204	15.8	56.0	16
AUGUSTA	A04-05	203	14.2	57.3	14
SEED CONSULTANTS	SC10B95	196	17.3	56.0	28
AUGUSTA	T03-80	188	14.8	54.7	35
TRISLER BY AUGUSTA	T03-84	183	16.7	55.8	40
TRISLER BY AUGUSTA	T5160CB	174	15.5	56.7	40
PIONEER BRAND	34B23	110	16.5	57.7	68
DOEBLERS	469RYG	99	13.8	55.2	60
Maturity Average		190	16.4	56.5	25
C.V.		9	4.7	2.2	72
L.S.D. (0.05)		30	1.3	2.1	30

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
TRISLER BY AUGUSTA	5340Bt	246	19.1	54.5	9
SEED CONSULTANTS	SC11B55	244	18.3	53.7	20
DOEBLERS	784XYG	243	19.6	53.8	5
PIONEER BRAND	33V15	233	18.0	59.0	8
PIONEER BRAND	33M54	227	18.5	59.3	6
AUGUSTA	3387	220	15.7	55.4	12
SEED CONSULTANTS	SC11B45	216	19.5	52.7	7
AUGUSTA	A5338	216	18.3	54.6	11
SEED CONSULTANTS	SC11B65	213	19.2	54.0	7
DEKALB	DKC63-80(RR2)	210	16.5	56.5	10
DEKALB	DKC63-81(RR2/YGCB)	210	16.7	58.7	13
DOEBLERS	648RYG	210	17.0	55.3	28
GARST	8450IT	209	17.2	55.2	10
DEKALB	DKC57-84(YGCB)	208	16.3	58.1	16
TRISLER BY AUGUSTA	5244RR	208	15.5	54.5	20
TRISLER BY AUGUSTA	T5337CB	208	19.7	54.4	12
TRISLER BY AUGUSTA	T04-106CB	207	16.9	55.7	3
SOUTHERN STATES	692Bt	207	17.6	57.0	2
AUGUSTA	A5337	202	18.1	54.8	12
MID-ATLANTIC	MA7135YG	200	17.4	54.4	16
TRISLER BY AUGUSTA	T-04-69CB	199	17.1	54.9	17
VIGORO	V54R66	198	16.6	57.4	10
TRISLER BY AUGUSTA	T5255RRCB	198	18.1	53.5	28
AUGUSTA	4587	197	16.5	56.0	15
ASGROW	RX702YG	196	16.4	57.2	17
VIGORO	V5450	191	17.7	56.4	12
TRISLER BY AUGUSTA	T5244RRCB	191	16.8	55.9	19
NK	N70-T9	191	17.9	55.9	9

Table 10, cont'd. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2004 - Virginia Tech Trials.

Early Maturity, continued					
Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
AUGUSTA	A04-02	190	17.8	55.4	4
NK	N75-C4	189	17.8	54.6	18
AUGUSTA	A5234	186	15.5	57.4	13
VIGORO	V52Y41	184	17.2	57.3	22
VIGORO	V53Y41	183	15.9	57.3	36
SEED CONSULTANTS	SC1144	183	18.2	57.2	11
PIONEER BRAND	3140	182	18.8	54.8	8
ASGROW	RX664	180	15.9	56.5	23
TRISLER BY AUGUSTA	5253Bt	180	18.7	56.0	14
NK	NX7982	180	17.1	55.0	33
ASGROW	RX664RR/YG	177	16.0	56.0	37
AUGUSTA	4487	177	16.8	54.9	16
DEKALB	DKC60-19(RR2/YGCB)	174	16.1	57.0	20
VIGORO	V5240	174	16.3	56.4	15
AUGUSTA	A04-04	174	14.4	56.7	15
DEKALB	DKC58-80(RR2/YGCB)	167	15.3	54.6	11
TRISLER BY AUGUSTA	T03-11CB	157	18.3	56.9	31
TRISLER BY AUGUSTA	T5245CB	135	17.5	55.1	59
Maturity Average		197	17.3	55.8	16
C.V.		9	4.1	2.3	72
L.S.D. (0.05)		27	1.1	2.0	17

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity					
Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G66	230	19.0	56.2	5
TRISLER BY AUGUSTA	T04-94CB	225	22.5	57.7	5
AUGUSTA	3562	224	18.6	56.1	18
NK	N82-A7	213	19.0	55.5	4
TRISLER BY AUGUSTA	T5337RRCB	210	19.5	54.8	7
DOEBLERS	760DT	208	19.2	56.3	12
AUGUSTA	T03-21	207	20.5	57.1	10
PIONEER BRAND	31G98	203	20.0	56.0	19
TRISLER BY AUGUSTA	T5338CB	201	20.0	53.1	23
GARST	8350YG1	198	18.2	56.6	10
TRISLER BY AUGUSTA	T04-104RR	198	21.1	56.4	30
GARST	8292YG1	194	18.9	56.5	18
VIGORO	V58Y41	194	18.7	54.9	14
TRISLER BY AUGUSTA	A04-01	194	20.2	57.3	13
PIONEER BRAND	32R25	194	17.7	54.6	15
TRISLER BY AUGUSTA	T5965RR	194	21.9	57.5	7
HYTEST	HT7683	188	18.3	57.1	13
TRISLER BY AUGUSTA	T-03-19CB	185	18.7	56.8	15
SOUTHERN STATES	E94002	185	16.6	55.5	18
HYTEST	HT7799Bt	184	18.9	57.1	24
TRISLER BY AUGUSTA	T04-102CB	182	19.1	56.4	23

Table 10, cont'd. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2004 - Virginia Tech Trials.

Medium to Mid-Full Maturity, cont'd.		Yield*	Moist	Test Wt	Lodging
Brand/Company	Hybrid	bu/A	%	lb/bu	%
SOUTHERN STATES	849CL	172	18.4	54.2	21
T.A. SEEDS	TA7000	171	17.9	57.2	15
TRISLER BY AUGUSTA	T-04-31CB	165	15.6	57.5	10
AUGUSTA	9561	156	19.4	56.5	34
HYTEST	HT7729HX/LL	151	17.3	56.1	44
SOUTHERN STATES	804RR	142	18.3	56.5	58
T.A. SEEDS	TA6953	140	17.3	57.9	45
NK	N83-Z8	140	20.9	56.4	66
SOUTHERN STATES	842RR	138	20.7	52.2	58
AUGUSTA	A04-03	109	17.9	56.2	32
Maturity Average		185	18.9	56.3	21
C.V.		12	5.8	2.2	62
L.S.D. (0.05)		33	1.6	1.8	19
Location Average		192	17.8	56.1	19

* Reported at 15.5% moisture.

Table 11. Two-year average corn yields under IRRIGATED conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B97	226	19.4	58.0	4
AUGUSTA	A04-05	223	18.0	57.3	7
NK	N65-M7	218	20.4	56.0	8
PIONEER BRAND	34B23	170	19.6	57.7	29
Maturity Average		211	19.3	57.2	12
C.V.		13	5.2	1.5	48
L.S.D. (0.05)		30	1.1	1.5	6

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	33M54	266	21.9	59.3	2
PIONEER BRAND	33V15	255	21.2	59.3	3
TRISLER BY AUGUSTA	5340Bt	251	22.1	55.0	4
AUGUSTA	A5338	233	21.4	54.5	5
SOUTHERN STATES	692Bt	230	20.3	57.0	1
AUGUSTA	A5337	229	21.1	55.0	6
TRISLER BY AUGUSTA	T5337CB	225	22.7	54.3	6
NK	NX7982	225	20.9	55.0	14
AUGUSTA	3387	225	20.1	55.3	5
NK	N75-C4	223	22.1	54.7	8
AUGUSTA	4587	223	20.7	56.0	8
DEKALB	DKC57-84(YGCB)	222	18.3	58.3	8
TRISLER BY AUGUSTA	5244RR	216	19.0	54.5	10
VIGORO	V52Y41	215	20.4	57.3	9
VIGORO	V54R66	214	20.3	57.7	4
TRISLER BY AUGUSTA	5253Bt	210	21.9	56.0	7
ASGROW	RX664	204	19.2	56.7	10
ASGROW	RX664RR/YG	203	19.2	56.0	19
AUGUSTA	4487	203	20.8	54.8	8
DEKALB	DKC60-19(RR2/YGCB)	199	19.6	57.0	8
Maturity Average		223	20.7	56.1	7
C.V.		9	4.5	2.8	117
L.S.D. (0.05)		21	1.0	2.4	9

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
AUGUSTA	3562	253	22.6	56.3	9
PIONEER BRAND	31G66	252	22.7	56.3	2
PIONEER BRAND	31G98	241	22.8	56.3	9
NK	N82-A7	228	22.2	55.8	2
VIGORO	V58Y41	226	21.6	55.0	7

Table 11, cont'd. Two-year average corn yields under IRRIGATED conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2003 and 2004.

Medium to Mid-Full Maturity, cont'd.		Yield*	Moist	Test Wt	Lodging
Brand/Company	Hybrid	bu/A	%	lb/bu	%
AUGUSTA	T03-21	219	23.0	57.0	5
TRISLER BY AUGUSTA	T5965RR	213	24.1	57.3	4
TRISLER BY AUGUSTA	T-03-19CB	209	22.1	57.0	6
SOUTHERN STATES	842RR	200	24.0	52.0	25
T.A. SEEDS	TA6953	170	20.1	58.0	19
Maturity Average		222	22.6	56.1	9
C.V.		11	4.8	2.7	119
L.S.D. (0.05)		25	1.1	2.3	11
Location Average		221	21.1	56.2	8

* 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 2002, 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
NK	N65-M7	213	19.8	55.2	8
PIONEER BRAND	34B97	211	19.0	58.3	5
PIONEER BRAND	34B23	178	19.4	57.5	20

Maturity Average 202 19.4 57.0 11
C.V. 13 5.6 1.5 53
L.S.D. (0.05) 23 0.9 0.9 5

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
AUGUSTA	3187	218	20.9	53.6	12
SOUTHERN STATES	692Bt	216	19.6	56.7	2
AUGUSTA	3387	215	19.6	55.1	6
AUGUSTA	4587	207	20.1	55.2	7
ASGROW	RX664	198	18.8	56.0	8
DEKALB	DKC60-19(RR2/YGCB)	194	19.7	56.1	8
AUGUSTA	4487	190	20.2	55.0	8

Maturity Average 206 19.9 55.4 7
C.V. 9 4.6 2.4 92
L.S.D. (0.05) 16 0.8 1.4 6

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
AUGUSTA	3562	218	22.8	55.7	19
PIONEER BRAND	31G98	214	22.3	57.1	17
SOUTHERN STATES	842RR	174	23.5	52.8	28

Maturity Average 203 22.8 55.3 21
C.V. 13 5.6 3.4 79
L.S.D. (0.05) 23 1.1 2.1 15

Location Average

204 20.4 55.7 11

* Reported at 15.5% moisture.

Table 13. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2004 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
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DOEBLERS	469RYG	83	14.0	57.5	10
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* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
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DOEBLERS	648RYG	221	14.7	57.7	3
PIONEER BRAND	33V15	220	17.1	61.2	1
HUBNER	H4497Bt	214	14.5	57.0	1
PIONEER BRAND	33J57	208	15.5	58.4	1
VIGORO	V5450	200	16.0	58.8	1
DEKALB	DKC63-81(RR2/YGCB)	195	15.6	59.9	2
PIONEER BRAND	3140	192	15.5	59.6	1
DEKALB	DKC63-80(RR2)	192	15.8	59.5	2
ASGROW	RX702YG	189	15.7	59.3	1
HUBNER	H3522	189	15.7	59.1	1
DEKALB	DKC60-19(RR2/YGCB)	185	14.6	57.8	0
DOEBLERS	784XYG	185	16.4	57.0	0
ASGROW	RX664RR/YG	171	14.3	57.2	0
DEKALB	DKC57-84(YGCB)	170	14.3	58.1	2
VIGORO	V5240	168	14.7	58.5	1
ASGROW	RX664	124	14.2	57.5	3
DEKALB	DKC58-80(RR2/YGCB)	119	12.9	54.7	3
Maturity Average		184	15.2	58.4	1
C.V.		12	3.2	1.1	131
L.S.D. (0.05)		35	0.8	1.0	2

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
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PIONEER BRAND	31B13	184	17.1	60.2	1
PIONEER BRAND	32R25	178	16.9	59.7	2
PIONEER BRAND	31G98	176	16.7	59.1	1
PIONEER BRAND	31G66	154	16.3	57.6	4
DOEBLERS	760DT	123	16.5	59.9	3
Maturity Average		159	16.6	59.1	2
C.V.		18	3.9	0.9	90
L.S.D. (0.05)		42	1.0	0.8	3
Location Average		172	15.6	58.5	2

* Reported at 15.5% moisture.

Table 14. Two-year average corn yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2003 and 2004.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	33J57	172	16.1	57.8	8
PIONEER BRAND	33V15	172	18.2	60.0	3
ASGROW	RX664RR/YG	164	14.3	56.1	1
DEKALB	DKC57-84(YGCB)	162	14.7	57.7	1
DEKALB	DKC60-19(RR2/YGCB)	149	16.3	57.2	1
ASGROW	RX664	128	14.5	56.2	2
Maturity Average		158	15.7	57.5	3
C.V.		13	3.6	1.2	99
L.S.D. (0.05)		23	0.6	0.8	3

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G98	164	17.5	58.2	6
PIONEER BRAND	32R25	161	18.1	58.2	9
PIONEER BRAND	31G66	157	18.3	56.8	9
DOEBLERS	760DT	125	17.7	58.2	5
Maturity Average		152	17.9	57.9	7
C.V.		16	3.5	1.2	73
L.S.D. (0.05)		26	0.7	0.7	6
Location Average		155	16.6	57.6	5

* Reported at 15.5% moisture.

Table 15. Corn Yields at the Northern Piedmont AREC in ORANGE, VIRGINIA in 2004 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Days To Silk	Ear Ht inches	Breakage** %
NK	N65-M7	223	19.0	61	51	0
PIONEER BRAND	34B23	202	19.8	61	49	1
PIONEER BRAND	34B97	201	19.7	62	49	1
DOEBLERS	469RYG	148	20.2	60	47	5
Maturity Average		201	20.0	62	52	1
C.V.		6	9.3	2	4	302
L.S.D. (0.05)		18	2.6	1	3	4

* Reported at 15.5% moisture.

** Winds greater than 36 m.p.h. on July 5, 2004 led to stalk breakage in some plots.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Days To Silk	Ear Ht inches	Breakage** %
TRISLER BY AUGUSTA	T5337CB	240	21.5	63	54	4
VIGORO	V52Y41	229	21.1	61	53	1
DOEBLERS	648RYG	227	19.8	61	50	4
ASGROW	RX702YG	222	21.9	62	53	1
DOEBLERS	784XYG	218	23.0	63	54	5
DEKALB	DKC63-81(RR2/YGCB)	217	21.5	62	53	7
PIONEER BRAND	33J57	216	20.4	64	51	0
PIONEER BRAND	33V15	212	20.7	63	55	1
HUBNER	H4497Bt	211	22.3	61	49	5
SOUTHERN STATES	692Bt	207	20.7	63	49	8
NK	N70-T9	206	23.3	61	49	2
NK	NX7982	205	21.2	63	53	1
VIGORO	V5240	204	19.2	63	56	3
VIGORO	V53Y41	204	20.6	62	51	1
DEKALB	DKC58-80(RR2/YGCB)	202	19.8	61	49	0
NK	N75-C4	201	21.5	63	50	3
HUBNER	H3522	200	19.8	63	55	0
BIO GENE	Bt1132	199	21.8	63	49	1
DEKALB	DKC60-19(RR2/YGCB)	198	20.0	61	46	1
DEKALB	DKC57-84(YGCB)	198	19.5	61	49	2
DEKALB	DKC63-80(RR2)	196	24.1	63	55	7
ASGROW	RX664RR/YG	194	19.0	62	52	2
VIGORO	V5450	194	22.8	62	56	0
VIGORO	V54R66	193	20.1	64	54	1
ASGROW	RX664	173	20.1	61	50	2
Maturity Average		205	21.1	62	52	2
C.V.		6	8.5	1	4	154
L.S.D. (0.05)		18	2.5	1	3	5

* Reported at 15.5% moisture.

** Winds greater than 36 m.p.h. on July 5, 2004 led to stalk breakage in some plots.

Table 15, cont'd. Corn Yields at the Northern Piedmont AREC in ORANGE, VIRGINIA in 2004 - Virginia Tech Trials.

Medium to Mid-Full Maturity, cont'd. Brand/Company	Hybrid	Yield* bu/A	Moist %	Days To Silk	Ear Ht inches	Breakage** %
PIONEER BRAND	31G66	250	20.9	65	54	1
BIO GENE	Bt1150	234	24.6	63	56	1
TRISLER BY AUGUSTA	T04-94CB	234	24.4	64	64	6
TRISLER BY AUGUSTA	T5337RRCB	232	22.4	63	52	5
TRISLER BY AUGUSTA	T-03-19CB	228	20.4	63	54	3
PIONEER BRAND	31B13	221	22.4	65	62	3
PIONEER BRAND	31G98	216	21.6	67	61	2
VIGORO	V58Y41	214	23.7	63	54	3
AUGUSTA	3562	212	21.0	65	62	10
AUGUSTA	9561	211	22.0	65	61	10
BIO GENE	Bt1152	209	21.7	64	51	0
SOUTHERN STATES	E94002	207	20.0	61	49	5
PIONEER BRAND	32R25	203	23.0	66	64	5
T.A. SEEDS	TA6953	201	21.4	64	59	3
SOUTHERN STATES	849CL	196	21.1	64	52	8
SOUTHERN STATES	804RR	195	21.2	64	60	1
T.A. SEEDS	TA7000	181	19.4	63	48	1
SOUTHERN STATES	842RR	167	24.1	64	56	25
DOEBLERS	760DT	163	20.7	64	51	6
Maturity Average		208	21.9	64	56	5
C.V.		7	9.9	2	4	114
L.S.D. (0.05)		22	3.1	1	3	8
Location Average		206	21.3	63	54	3

* Reported at 15.5% moisture.

** Winds greater than 36 m.p.h. on July 5, 2004 led to stalk breakage in some plots.

Table 16. Two-year average corn yields at the Northern Piedmont AREC in ORANGE, VA in 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
NK	N65-M7	235	22.1	31	68	47
PIONEER BRAND	34B23	228	23.0	51	68	46
Maturity Average		232	22.6	41	68	47
C.V.		6	14.6	37	2	3
L.S.D. (0.05)		18	4.0	34	2	2

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
VIGORO	V52Y41	259	24.8	73	67	48
PIONEER BRAND	33J57	237	24.0	15	70	51
NK	NX7982	227	25.6	63	69	49
NK	N75-C4	224	24.8	56	69	48
BIO GENE	Bt1132	220	25.6	41	70	49
DEKALB	DKC60-19(RR2/YGCB)	218	21.6	31	66	45
DEKALB	DKC57-84(YGCB)	218	23.2	31	66	48
PIONEER BRAND	33V15	212	24.1	30	71	53
VIGORO	V54R66	211	24.3	55	71	51
ASGROW	RX664RR/YG	206	23.1	66	67	49
ASGROW	RX664	192	23.4	19	67	49
Maturity Average		220	24.0	44	68	49
C.V.		7	9.0	42	1	5
L.S.D. (0.05)		16	2.2	26	1	2

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
VIGORO	V58Y41	254	26.2	35	69	51
PIONEER BRAND	31G66	250	25.6	26	72	54
BIO GENE	Bt1150	250	26.5	23	69	55
PIONEER BRAND	31B13	242	26.6	13	71	61
PIONEER BRAND	31G98	232	26.9	18	72	59
PIONEER BRAND	32R25	223	26.0	28	72	62
T.A. SEEDS	TA7000	202	23.1	12	69	49
BIO GENE	Bt1152	194	26.7	49	71	50
DOEBLERS	760DT	190	23.4	21	70	49
Maturity Average		226	25.7	25	71	54
C.V.		7	10.1	70	2	5
L.S.D. (0.05)		16	2.6	25	1	3
Location Average		224	24.6	36	69	51

* Reported at 15.5% moisture.

Table 17. Three-year average corn yields at the Northern Piedmont AREC in ORANGE, VA in 2002, 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
NK	N65-M7	196	19.4	16	67	45
PIONEER BRAND	34B23	184	20.2	26	67	45
Maturity Average		190	19.8	21	67	45
C.V.		9	13.7	52	2	4
L.S.D. (0.05)		15	2.5	13	1	2

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
PIONEER BRAND	33J57	192	20.6	8	70	49
PIONEER BRAND	32R25	185	22.2	14	71	58
DEKALB	DKC60-19(RR2/YGCB)	172	19.3	16	66	43
ASGROW	RX664	161	20.2	9	66	47
Maturity Average		168	19.5	9	68	47
C.V.		10	9.0	80	2	4
L.S.D. (0.05)		18	1.8	9	1	2

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
PIONEER BRAND	31B13	204	22.7	6	70	57
PIONEER BRAND	31G98	188	22.8	9	71	55
BIO GENE	Bt1152	163	22.7	24	70	48
DOEBLERS	760DT	160	20.4	11	69	48
Maturity Average		185	22.7	14	71	53
C.V.		8	8.5	72	2	5
L.S.D. (0.05)		13	1.7	12	1	2
Location Average		181	21.1	14	69	49

* Reported at 15.5% moisture.

Table 18. Corn Yields at Golden Valley Farm in Rockingham County, Virginia (SHENANDOAH VALLEY) in 2004 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B23	235	18.3	59.5	0
SEED CONSULTANTS	SC10B95	215	16.0	56.7	2
DOEBLERS	469RYG	137	15.5	56.9	0
Maturity Average		197	16.5	57.6	1
C.V.		5	3.7	0.8	167
L.S.D. (0.05)		23	1.3	1.0	3

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	33M54	243	19.9	59.4	0
TRISLER BY AUGUSTA	T5337CB	242	19.1	55.4	0
PIONEER BRAND	33V15	233	19.4	59.6	0
SEED CONSULTANTS	SC11B55	231	18.3	56.3	0
DOEBLERS	784XYG	231	19.5	55.1	2
SEED CONSULTANTS	SC11B45	229	17.7	55.2	1
BIO GENE	Bt1132	223	18.7	55.1	1
VIGORO	V5450	217	19.1	57.4	0
HUBNER	H3522	216	20.5	56.3	0
VIGORO	V5240	216	16.9	57.3	0
SEED CONSULTANTS	SC11B65	215	19.6	54.8	0
HUBNER	H4497Bt	211	15.6	57.2	1
SEED CONSULTANTS	SC1144	211	19.4	58.0	0
PIONEER BRAND	33J57	209	18.0	54.8	0
DOEBLERS	638XYG	182	17.9	56.0	0
DOEBLERS	648RYG	174	16.3	56.1	0
Maturity Average		217	18.5	56.5	0
C.V.		6	4.6	1.3	355
L.S.D. (0.05)		18	1.2	1.0	2

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G66	268	20.5	55.0	2
VIGORO	V58Y41	247	19.2	55.6	1
PIONEER BRAND	31G98	244	19.3	57.7	1
TRISLER BY AUGUSTA	T5337RRCB	242	19.3	55.7	2
TRISLER BY AUGUSTA	T04-104RR	236	21.1	56.9	1
TRISLER BY AUGUSTA	T04-102CB	230	20.8	56.6	0
AUGUSTA	A04-03	229	20.8	56.3	1
HYTEST	HT7799Bt	225	20.7	56.9	0
HYTEST	HT7683	225	19.8	56.9	0
DOEBLERS	760DT	217	18.6	57.7	0

Table 18, continued. Corn Yields at Golden Valley Farm in Rockingham County, Virginia (SHENANDOAH VALLEY) in 2004 - Virginia Tech Trials.

Medium to Mid-Full Maturity, cont'd.		Yield*	Moist	Test Wt	Lodging
Brand/Company	Hybrid	bu/A	%	lb/bu	%
TRISLER BY AUGUSTA	A04-01	213	21.8	57.6	0
HYTEST	HT7729HX/LL	213	16.4	55.5	2
T.A. SEEDS	TA6953	211	18.2	58.0	0
T.A. SEEDS	TA7000	204	19.9	57.5	0
BIO GENE	Bt1150	204	19.6	55.5	0
BIO GENE	Bt1152	203	20.6	55.7	0
TRISLER BY AUGUSTA	T-04-31CB	190	18.5	57.5	0
Maturity Average		224	19.7	56.6	0.5
C.V.		6	2.8	1.0	291
L.S.D. (0.05)		20	0.8	0.8	2.1
Location Average		219	19.0	56.6	0.5

* Reported at 15.5% moisture.

Table 19. Two-year average corn yields at SHENANDOAH VALLEY, VA in 2003 (Augusta County) and 2004 (Rockingham County.)

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B23	202	17.3	58.4	2

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
BIO GENE	Bt1132	200	18.3	54.5	1
PIONEER BRAND	33J57	190	17.5	55.1	1
PIONEER BRAND	33V15	189	19.6	58.8	2
DOEBLERS	638XYG	185	17.7	55.9	1

Maturity Average		191	18.3	56.1	1
C.V.		8	2.9	1.2	106
L.S.D. (0.05)		16	0.6	0.7	1

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G66	221	20.0	55.1	3
VIGORO	V58Y41	220	19.0	54.8	1
PIONEER BRAND	31G98	212	19.1	56.7	3
BIO GENE	Bt1150	207	20.2	54.9	1
T.A. SEEDS	TA6953	197	18.3	57.7	2
DOEBLERS	760DT	192	18.3	56.9	2
BIO GENE	Bt1152	177	21.4	54.3	0

Maturity Average		204	19.5	55.8	2
C.V.		7	2.6	1.2	131
L.S.D. (0.05)		15	0.5	0.7	2
Location Average		199	18.9	56.1	2

* Reported at 15.5% moisture.

Table 20. Three-year average corn yields at SHENANDOAH VALLEY, VA in 2002 (Rockingham County), 2003 (Augusta County), and 2004 (Rockingham County).

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B23	177	17.5	58.3	1

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	33J57	181	17.5	55.7	1
DOEBLERS	638XYG	178	17.7	55.8	0

Maturity Average	180	17.6	55.7	1
C.V.	4	2.5	1.1	106
L.S.D. (0.05)	6	0.4	0.6	1

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G98	183	17.9	56.6	2
DOEBLERS	760DT	178	18.2	56.9	1
BIO GENE	Bt1152	171	20.8	54.5	0

Maturity Average	178	18.9	56.0	1
C.V.	8	3.1	1.3	82
L.S.D. (0.05)	12	0.5	0.6	1

Location Average	178	18.2	56.3	1
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* Reported at 15.5% moisture.

Table 21. Corn Yields at Kentland Farm in Blacksburg, Virginia in 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B23	216	20.7	58.8	2
DOEBLERS	469RYG	174	18.3	58.3	2
Maturity Average		195	19.5	58.5	2
C.V.		6	2.4	1.3	134
L.S.D. (0.05)		24	1.0	1.7	6

* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	33M54	218	22.6	58.0	1
HUBNER	H4497Bt	217	20.1	54.5	1
PIONEER BRAND	33V15	213	21.2	58.7	7
DOEBLERS	784XYG	208	22.9	51.5	3
SOUTHERN STATES	692Bt	208	22.7	55.6	1
PIONEER BRAND	33J57	206	20.2	56.3	12
DOEBLERS	648RYG	205	20.6	53.9	1
HUBNER	H3522	202	21.4	56.4	0
DOEBLERS	638XYG	195	20.7	54.3	2
Maturity Average		208	21.3	55.6	3
C.V.		4	2.9	1.7	93
L.S.D. (0.05)		14	1.0	1.5	4

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
NK	N83-Z8	238	23.8	54.2	3
TRISLER BY AUGUSTA	T5337RRCB	233	22.6	52.3	1
SOUTHERN STATES	849CL	228	24.0	48.5	4
PIONEER BRAND	31G66	223	22.7	53.8	3
SOUTHERN STATES	E94002	215	20.3	54.2	2
SOUTHERN STATES	842RR	206	24.3	48.8	7
NK	N82-A7	202	22.8	52.3	3
DOEBLERS	760DT	197	21.1	54.0	3
SOUTHERN STATES	804RR	188	20.7	54.2	3
Maturity Average		214	22.4	52.5	3
C.V.		6	2.9	1.4	104
L.S.D. (0.05)		19	1.0	1.2	4
Location Average		209	21.6	54.6	3

* Reported at 15.5% moisture.

Table 22. Two-year average corn yields at Kentland Farm in BLACKSBURG, VA in 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	34B23	187	19.6	58.6	4

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	33J57	186	18.9	56.0	12
PIONEER BRAND	33V15	184	20.1	59.4	6
DOEBLERS	638XYG	169	18.7	54.8	4

Maturity Average		180	19.2	56.8	7
C.V.		10	2.5	1.4	43
L.S.D. (0.05)		20	0.5	0.9	4

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G66	211	21.6	54.6	2
SOUTHERN STATES	849CL	211	22.2	49.4	4
SOUTHERN STATES	842RR	209	22.0	50.1	6
NK	N83-Z8	206	22.4	55.8	4
NK	N82-A7	190	21.0	53.6	2
DOEBLERS	760DT	167	19.6	55.1	4

Maturity Average		199	21.4	53.1	4
C.V.		11	3.5	1.1	76
L.S.D. (0.05)		22	0.8	0.6	3

Location Average		192	20.6	54.8	5
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* Reported at 15.5% moisture.

Table 23. Three-year average corn yields at Kentland Farm in BLACKSBURG, VA in 2002, 2003 and 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER_BRAND	34B23	153	18.6	58.0	3

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER_BRAND	33J57	149	18.8	56.2	8
DOEBLERS	638XYG	133	17.7	54.3	2

Maturity Average		140	18.2	55.2	5
C.V.		10	2.4	1.0	54
L.S.D. (0.05)		13	0.4	0.6	3

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
SOUTHERN_STATES	849CL	166	20.7	49.9	3
SOUTHERN_STATES	842RR	164	20.7	50.7	4
NK	N83-Z8	161	21.3	55.5	3
DOEBLERS	760DT	138	18.8	55.0	2

Maturity Average		157	20.4	52.8	3
C.V.		12	4.2	1.4	88
L.S.D. (0.05)		16	0.7	0.6	2

Location Average		152	19.5	54.2	3
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* Reported at 15.5% moisture.

Table 24. Corn Yields at Southwest Virginia (Washington County), Virginia in 2004.

Very Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
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DOEBLERS	469RYG	102	12.8	53.0	3
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* Reported at 15.5% moisture.

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
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HUBNER	H4497Bt	206	17.2	55.3	2
PIONEER BRAND	33M54	205	18.6	59.3	3
PIONEER BRAND	33V15	196	18.3	59.7	1
HUBNER	H3522	190	17.1	55.3	2
DOEBLERS	648RYG	175	16.6	54.3	1
PIONEER BRAND	33J57	156	16.0	54.3	7
DOEBLERS	784XYG	148	18.5	52.7	1
Maturity Average		183	17.5	55.9	2
C.V.		16	3.4	1.3	118
L.S.D. (0.05)		51	1.0	1.2	4

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
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PIONEER BRAND	31G66	237	19.2	55.0	0
VIGORO	V58Y41	198	19.0	52.3	0
DOEBLERS	760DT	194	17.8	55.0	1
Maturity Average		201	18.6	54.0	1
C.V.		13	3.1	0.5	226
L.S.D. (0.05)		46	1.0	0.4	2
Location Average		182	17.4	55.0	2

* Reported at 15.5% moisture.

Table 25. Two-year average corn yields in SOUTHWEST VIRGINIA in 2003 (WASHINGTON COUNTY) and 2004 (WASHINGTON COUNTY).

Early Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	33V15	196	20.0	58.9	0

* Reported at 15.5% moisture.

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
PIONEER BRAND	31G66	228	20.8	54.5	0
VIGORO	V58Y41	214	20.4	52.8	0
DOEBLERS	760DT	199	19.1	55.2	1
Maturity Average		213	20.1	54.2	0.2
C.V.		10	2.9	0.7	283
L.S.D. (0.05)		25	0.7	0.4	0.5
Location Average		209	20.0	55.3	0.2

* Reported at 15.5% moisture.

Table 26. Three-year average corn yields in SOUTHWEST VIRGINIA in 2002 (WYTHE COUNTY), 2003 (WASHINGTON COUNTY) and 2004 (WASHINGTON COUNTY).

Medium to Mid-Full Maturity Brand/Company	Hybrid	Yield* bu/A	Moist %	Test Wt lb/bu	Lodging %
DOEBLERS	760DT	168	23.0	52.8	0.3
* Reported at 15.5% moisture.					

Resistance and agronomic characters of corn hybrids under natural gray leaf spot disease pressure, Montgomery Co., VA, 2004.

Gray leaf spot disease ratings, grain harvest moisture, bushel weights, and grain yields were obtained for 26 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 6.7, 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 7 May into a field continuously cropped to corn since 1986 and abundantly covered with corn debris naturally infested with *Cercospora zeae-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. 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 28 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 abundant rainfall. These conditions 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 all 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 27th for grain yield of the 27 hybrids evaluated and yielded 68.4 bushels less than the highest yielding hybrid in the test.

Hybrid ^z	GLS Severity Index (0-5) ^y			Grain ^x (%H ₂ O) 28 Oct	Bu wt ^w (lb) 28 Oct	Yield ^v (bu/A) 28 Oct
	19 Jul	12 Aug	24 Aug			
SYNGENTA NX 6893	1.35	2.15	2.35	22.8	54.4	197.6 ^u
SYNGENTA NX 7103	1.23	2.15	2.43	22.2	55.9	197.2
SYNGENTA NX 7953	1.48	2.20	2.65	22.3	54.6	195.6
SYNGENTA NX 7253	1.30	2.25	2.75	23.6	56.2	193.8
SYNGENTA NX 7293	1.10	2.40	2.98	22.3	55.2	193.8
DEKALB DKC 61-50	1.28	2.50	2.98	21.0	55.6	192.4
SYNGENTA N 76-H2	1.43	2.25	2.83	22.9	55.8	189.2
SYNGENTA N 61-V4	1.38	2.25	2.93	22.0	56.1	186.0
SYNGENTA NX 7203	1.50	2.35	3.00	22.3	54.1	185.5
SYNGENTA N 70-T9	1.28	2.30	2.98	21.8	55.2	184.9
SYNGENTA N67-W5	1.30	2.33	2.95	20.7	55.0	179.4
T.A. SEEDS 6901	1.60	2.45	2.48	21.6	57.6	177.8
SYNGENTA NX 7982	1.35	2.20	2.80	22.2	54.6	177.7
SYNGENTA NX 6903	1.43	2.33	2.48	22.8	56.8	177.4
SYNGENTA NX 7613	1.23	2.18	2.58	22.9	57.1	175.3
SYNGENTA N 71-23	1.20	2.38	3.00	20.6	54.9	175.0
DOEBLERS 760DT	1.28	2.35	2.53	22.8	56.8	174.4
SYNGENTA N 82-A7	1.23	2.23	2.33	26.2	55.5	169.4
DOEBLERS 784XYG	1.10	2.25	2.43	24.2	55.0	168.2
SYNGENTA NX 8363	1.48	2.35	2.58	24.5	59.6	165.9
DEKALB DKC 63-81	1.35	2.48	2.80	21.6	57.5	163.6
SYNGENTA NX 6503	1.38	2.38	3.15	20.4	55.2	157.2
DEKALB DKC 61-45	1.48	2.33	2.78	21.9	54.1	155.1
T.A. SEEDS 6953	1.28	2.35	2.70	24.5	57.6	154.7
T.A. SEEDS 7911	1.35	2.50	2.43	21.7	55.2	153.6
DOEBLERS 648RYG	1.38	2.38	3.00	21.4	55.1	153.5
PIONEER BRAND 3394	1.95	3.18	4.08	20.0	56.2	129.2
Least Significant Difference ($P \leq 0.05$)=	0.24	0.21	0.18	1.6	1.4	20.7
Standard Deviation =	0.17	0.15	0.13	1.13	0.98	14.62
Coefficient of Variation =	12.38	6.28	4.55	5.02	1.77	8.80

^zHybrid entry planted in four 25-ft rows spaced 2.5 ft apart and replicated four times.

^yGLS 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.

^xGrain moisture at harvest expressed in percent.

^wBushel weight expressed in lb at a standard 15.5% grain moisture.

^vYield expressed in bu/A at a standard 15.5% grain moisture.

^uMeans differ significantly ($P \leq 0.05$) by Fischer's LSD.

