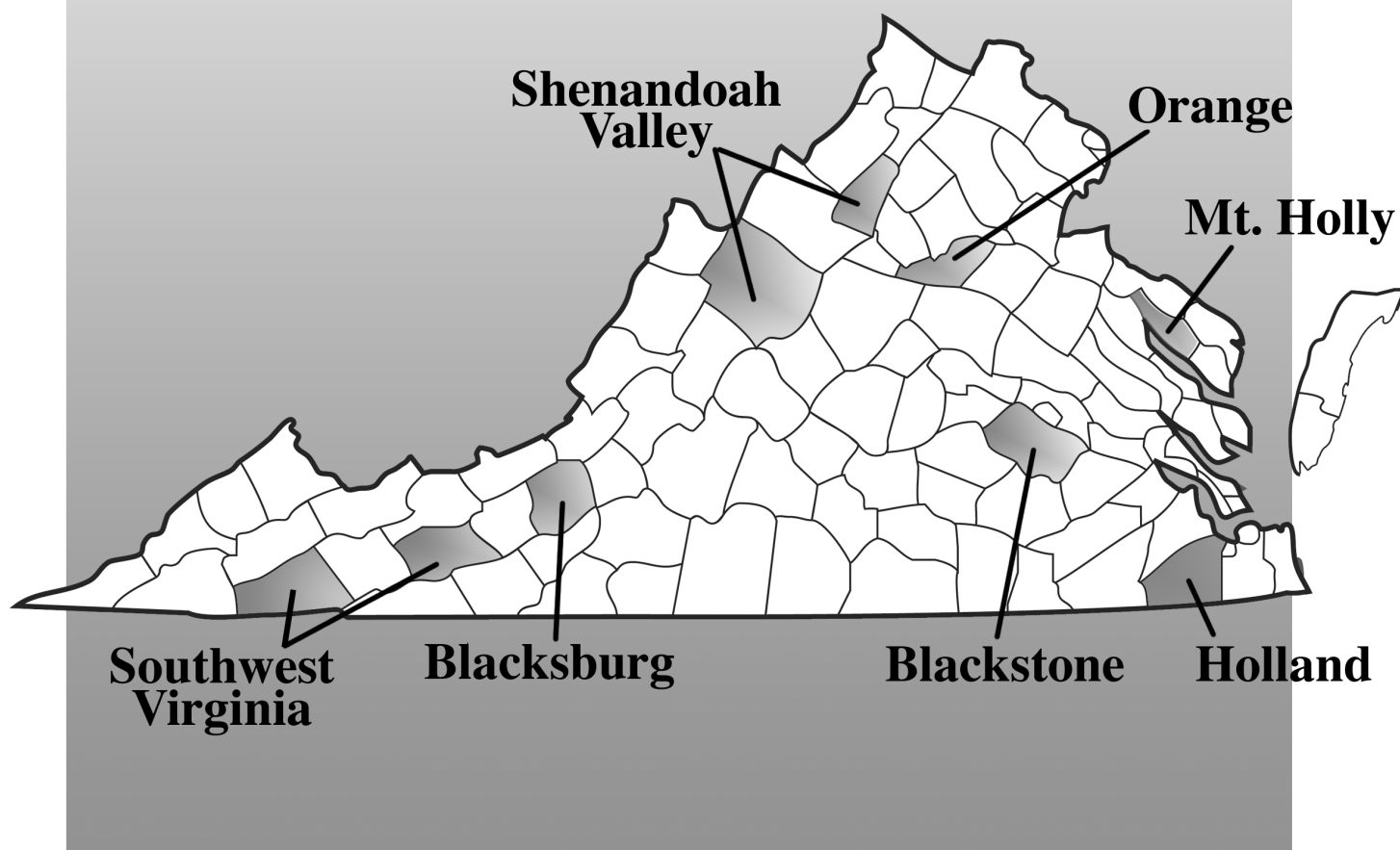


Virginia Corn Hybrid & Management Trials 2003



VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

Virginia Cooperative Extension
Knowledge for the Commonwealth



VIRGINIA STATE UNIVERSITY

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VIRGINIA CORN HYBRID TRIALS IN 2003.

Companies Participating in the 2003 Corn Hybrid Trials

Company	Brand	Address
AUGUSTA SEED CORPORATION	AUGUSTA	106 FAIRBURN RD MT SOLON VA 22843
BIO GENE	BIO GENE	5491 TRI COUNTY HWY SARDINIA OH 45171
CHEMGRO SEEDS	CHEMGRO	PO BOX 218 EAST PETERSBURG PA 17520
DOEBLER'S PA. HYBRIDS INC.	DOEBLER'S	202 TIADAGHTON AVE JERSEY SHORE PA 17740
HYTEST SEEDS	HYTEST	454 RAILROAD AVE SHIREMANSTOWN PA 17011
MID-ATLANTIC SEEDS	MID-ATLANTIC	204 ST CHARLES WAY #163E YORK PA 17403
MONSANTO	DEKALB AND ASGROW	3100 SYCAMORE RD DEKALB IL 60115
PIONEER, A DUPONT COMPANY	PIONEER	800 TIFFANY BLVD SUITE 200 ROCKY MOUNT NC 27804
ROYSTER-CLARK, INC.	VIGORO BRAND	717 ROBINSON RD WASHINGTON C.H. OH 43160
SOUTHERN STATES COOP., INC.	SOUTHERN STATES	PO BOX 26234 RICHMOND VA 23260
SYNGENTA SEEDS, INC.	NK BRAND	PO BOX 959 MINNEAPOLIS MN 55440
T.A. SEEDS	T.A. SEEDS	PO BOX 300 AVIS PA 17721

VIRGINIA CORN HYBRID TRIALS IN 2003

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J. Wooge; C. Lawrence; the Phillips family; Phil Blevins; the Johnson family.

Performance trials of commercial corn hybrids were conducted at seven locations in Virginia in 2003. One location consisted of an irrigated and a non-irrigated test. Test weights were taken with a GrainGauge manufactured by HarvestMaster and calibrated over seven years of testing. A list of the companies participating in the trials is shown above. 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% 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.

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

2003 VIRGINIA CORN HYBRID PLOT INFORMATION
(Rates are on a per acre basis.)

Blacksburg	Whitethorne Farm
Land Prep:	disked
Planted:	May 2, 2003
Harvested:	October 30, 2003
Pesticide:	4.4 lb Force 3G® at planting; 1.5 lb Atrazine + 1 lb Simazine + 4.5 lb Partner® preplant incorporated April 30, 2003
Fertilizer:	2.5 tons lime + 140-80-80 preplant incorporated April 29, 2003 + 20 gal 10-20-0 + S + micronutrients at planting + 90 lb N using 30% UAN sidedressed July 9, 2003
Plot Size:	2 rows 25' x 30" 4 replications
Soil Type:	Hayter
Cooperator:	J. Wooge

Blackstone	Southern Piedmont Agricultural Research & Extension Center
Planted:	April 29, 2003
Harvested:	October 1, 2003
Pesticide:	1.5 qt Bladex 4L + 1 qt Dual Magnum® April 29, 2003
Fertilizer:	1000 lb 10-10-10 preplant incorporated April 4, 2003 + 20 gal 10-20-0 + S + micronutrients at planting + 100 lb N June 10, 2003
Plot Size:	2 rows 25' x 30" 4 replications
Soil Type:	Durham
Cooperators:	W. B. Wilkinson, R. R. Wilmouth

Holland	Tidewater Agricultural Research & Extension Center
Land Prep:	rip-stripped (2) 18" April 3, 2003; disked (2) April 4 and 24, 2003
Planted:	April 30, 2003
Harvested:	September 15, 2003
Pesticide:	3.5 pt Guardsman® preplant incorporated April 25, 2003 + 4.4 lb Force 3G® at planting
Fertilizer:	300 lb 6-16-39 March 19, 2003 + 60 units N April 11, 2003 + 20 gal 10-20-0 + S + micronutrients at planting + 140 units N using UAN sidedressed June 5, 2003
Plot Size:	2 rows 35' x 30" 4 replications
Soil Type:	Eunola, Uchee, and Nansemond
Cooperators:	Bobby Ashburn

Mt Holly (dry)	Virginia Crop Improvement Association Foundation Seed Farm
Land Prep:	ripped, worked and planted conventionally
Planted:	April 23, 2003
Harvested:	October 14, 2003
Pesticide:	2 qt Bicep II Magnum® + 1 qt Princep® preplant incorporated + 4.4 lb Force 3G® at planting
Fertilizer:	50 lb N + 40 lb P + 60 lb K preplant incorporated + 20 gal 10-20-0 + S + micronutrients at planting + 90 lb N sidedressed June 16, 2003
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 Foundation Seed Farm
Land Prep:	ripped, worked and planted conventionally
Planted:	April 24, 2003
Harvested:	September 17, 2003
Pesticide:	2 qt Bicep II Magnum® + 1 qt Princep® preplant incorporated + 4.4 lb Force 3G® at planting
Fertilizer:	50 lb N + 50 lb P + 80 lb K preplant incorporated + 20 gal 10-20-0 + S + micronutrients at planting; 45 lb N + 6 lb S June 6, 2003 + 40 lb N + 5 lb S June 24, 2003 + 55 lb N July 1, 2003 through fertigation
Irrigation:	(8.6" total) 0.15" June 6 0.2" June 24 0.4" July 1 1.0" July 9 0.8" July 17
Plot Size:	2 rows 25' x 30" 4 replications
Soil Type:	State fine sandy loam
Cooperator:	Bruce Beahm

Orange	Northern Piedmont Agricultural Research & Extension Center
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Planted:	May 14-15, 2003
Harvested:	September 29 - October 2, 2003
Pesticide:	2.5 qt Lumax 4L® preplant incorporated May 14, 2003
Fertilizer:	1400 lb 10-10-10 May 14, 2003 + 80 lb N sidedressed June 30, 2003
Plot Size:	1 row 30' x 30" 4 replications
Soil Type:	Davidson silty clay loam
Cooperators:	D. E. Starner

Washington County	Johnson Farm
Planted:	May 14, 2003
Harvested:	October 24, 2003
Pesticide:	4.4 lb Force 3G® at planting + Lomax®
Fertilizer:	170N + 75P + 200K preplant + 20 gal 10-20-0 + S + micronutrients at planting + 100 units sidedressed
Plot Size:	2 rows 25' x 30" 4 replications
Cooperators:	Phil Blevins, David Johnson

Shenandoah Valley	Phillips Farm
Planted:	May 15, 2003
Harvested:	October 23, 2003
Pesticide:	4.4 lb Force 3G® at planting
Fertilizer:	20 lb N from previous dairy manure + 60 lb N from 2 tons of poultry litter applied in the spring + 60 lb N applied in pre-emergence herbicide + 20 gal 10-20-0 + S + micronutrients at planting + 50 lb N sidedressed
Plot Size:	2 rows 25' x 30" 4 replications
Cooperators:	Chris Lawrence and the Phillips farm

Table 1. 2003 RELATIVE YIELD* of corn hybrids entered in three or more locations.

Very Early Maturity Brand	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Black-stone	Orange	Augusta	Blacks-burg	Wash-ington	Mean
NK	N65-M7	109	99	99	---	103	---	---	---	102
AUGUSTA	3350	95	105	103	---	---	---	---	---	101
MID-ATLANTIC	MA9094CRW	92	102	92	---	103	95	---	---	97
AUGUSTA	1185	96	100	91	---	---	---	---	---	96
DOEBLERS	HC560	84	82	95	96	82	88	85	100	89
AUGUSTA	4495	90	77	82	---	---	---	---	---	83
AUGUSTA	4467	71	80	78	---	---	---	---	---	76

Early Maturity Brand	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Black-stone	Orange	Augusta	Blacks-burg	Wash-ington	Mean
TRISLER BY AUGUSTA	5337CB	122	111	103	---	---	---	---	---	112
MID-ATLANTIC	MA7130YG	114	104	102	---	127	112	---	---	112
TRISLER BY AUGUSTA	5340Bt	112	109	109	---	---	---	---	---	110
VIGORO	V52Y41	111	100	101	---	120	---	---	---	108
DEKALB	DKC64-11(RR/YGCB)	---	114	110	101	104	---	---	---	107
ASGROW	RX772	---	108	107	110	100	---	---	---	106
AUGUSTA	3187	109	103	106	---	---	---	---	---	106
DEKALB	DKC63-79(YGCB)	---	104	104	112	95	---	---	---	104
AUGUSTA	1187	90	114	112	---	---	---	---	---	104
SOUTHERN STATES	692Bt	---	99	107	---	---	107	---	---	104
ASGROW	RX664RR/YG	---	109	97	118	90	---	---	---	103
DEKALB	DKC60-09(RR/YGCB)	---	114	101	104	95	---	---	---	103
TRISLER BY AUGUSTA	T-03-19CB	113	101	96	---	---	---	---	---	103
PIONEER BRAND	34B23	---	113	91	---	106	102	97	---	102
T.A. SEEDS	EX10054	---	103	96	---	104	---	---	---	101
NK	N75-C4	87	108	105	---	103	---	---	---	101
DEKALB	DKC57-84(YGCB)	---	91	101	112	99	---	---	---	100
VIGORO	V51R36	103	94	92	---	113	---	---	---	100
TRISLER BY AUGUSTA	5253Bt	104	93	102	---	---	---	---	---	100
AUGUSTA	3387	104	100	97	---	---	---	---	---	100
AUGUSTA	3150	90	108	103	---	---	---	---	---	100
DOEBLERS	643XYG	102	---	---	87	107	---	---	---	99

Table 1, continued. 2003 RELATIVE YIELD* of corn hybrids entered in three or more locations.

Early Maturity, continued										
Brand	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Black-stone	Orange	Augusta	Blacks-burg	Wash-ington	Mean
NK	NX7982	74	108	114	---	104	---	---	---	99
AUGUSTA	4587	103	87	106	---	---	---	---	---	99
TRISLER BY AUGUSTA	5244RR	104	96	95	---	---	---	---	---	98
NK	N70-D5	97	96	103	---	98	---	---	---	98
VIGORO	V54C29	93	104	95	---	---	---	---	---	97
DOEBLERS	649XY	91	103	91	90	106	106	82	105	97
AUGUSTA	4487	95	99	97	---	---	---	---	---	97
MID-ATLANTIC	MA9137	97	103	93	---	86	102	---	---	96
ASGROW	RX664	---	100	95	97	88	---	---	---	95
VIGORO	V54R66	97	106	96	96	95	90	90	92	95
AUGUSTA	3685	94	95	98	---	---	---	---	---	95
SOUTHERN STATES	740	---	98	97	---	90	---	---	---	95
DEKALB	DKC60-19(RR/YGCB)	---	91	95	90	99	---	---	---	94
PIONEER BRAND	34B97	88	92	102	---	---	---	---	---	94
VIGORO	V5110	92	99	93	78	105	---	81	102	93
MID-ATLANTIC	MA7131YG	100	90	86	---	96	95	---	---	93
MID-ATLANTIC	MA8011RR	93	97	85	---	101	88	---	---	92
AUGUSTA	3687	88	97	90	---	---	---	---	---	92
ASGROW	RX774	73	100	91	100	93	---	---	---	91
DEKALB	DKC60-17(RR)	---	83	99	82	94	---	---	---	90
VIGORO	V54C69	75	70	93	---	84	79	98	88	84
AUGUSTA	1150	74	73	85	---	---	---	---	---	78

Medium Maturity										
Brand	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Black-stone	Orange	Augusta	Blacks-burg	Wash-ington	Mean
VIGORO	V58Y41	118	106	114		122	111	104	113	112
TRISLER BY AUGUSTA	T-03-21CB	103	114	116						111
PIONEER BRAND	31G98	121	111	118	113	103	104		106	111
HYTEST	HT7711Bt	111	103	110			113			109
PIONEER BRAND	33M54	107	94	125		106				108
SOUTHERN STATES	842RR		101	105			91	131		107
PIONEER BRAND	32R25	110			106	101				105
HYTEST	HT7710Bt/LL	110	92	109			108			105
NK	NX8201	105	110	103		94		110		104
CHEMGRO	7323RRBt	108	96	101						102

VIGORO	V5640	97	104	105						102
VIGORO	V5800	90	97	104	110	100	104			101
AUGUSTA	2056		109	98	97					101
PIONEER BRAND	33J57				92	107	99	102		100
PIONEER BRAND	33V15	101	112	115	101	88	83	96	97	99
AUGUSTA	3562		89	120	88					99
AUGUSTA	2062	100	93	101						98
AUGUSTA	9550	95	95	105						98
T.A. SEEDS	TA6900					94	97	97		96
TRISLER BY AUGUSTA	T-5965RR	95	96	98						96
HYTEST	HT7761	88	89	103			104			96
DOEBLERS	760DT	90			95	91	96	84	100	92
AUGUSTA	5654	94	90	92						92

Mid-Full Maturity Brand	Hybrid	Holland	Mt Holly Dryland	Mt Holly Irrigated	Black-stone	Orange	Augusta	Blacks-burg	Wash-ington	Mean
PIONEER BRAND	31G66	121	141	117	118	104	101	123	110	117
PIONEER BRAND	32D99	---	---	---	107	107	105	133	124	115
CHEMGRO	7740Bt	124	94	95	---	---	---	---	---	104
T.A. SEEDS	TA6953	---	113	81	---	---	105	105	104	102
VIGORO	V61R36	101	---	---	100	---	---	98	94	98

* 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* (2002-2003) of corn hybrids entered in three or more locations each year.*

Very Early Maturity Brand	Hybrid	# Observations	Relative Yield
NK	N65-M7	37	104
AUGUSTA	4495	23	92

Early Maturity Brand	Hybrid	# Observations	Relative Yield
AUGUSTA	3187	23	108
VIGORO	V5110	45	105
DOEBLERS	649XY	53	105
AUGUSTA	3387	28	105
SOUTHERN STATES	692Bt	24	105
PIONEER BRAND	34B23	40	104
AUGUSTA	4487	24	100
ASGROW	RX664	28	99
AUGUSTA	4587	28	99
DEKALB	DKC60-19(RR/YG)	26	98
PIONEER BRAND	34B97	24	98
MID-ATLANTIC	MA8011RR	39	98
VIGORO	V54C29	22	97
SOUTHERN STATES	740	28	97
MID-ATLANTIC	MA9137	40	96
AUGUSTA	3685	23	88

Medium Maturity Brand	Hybrid	# Observations	Relative Yield
PIONEER BRAND	31G98	48	109
PIONEER BRAND	33J57	30	102
HYTEST	HT7761	34	99
VIGORO	V5800	44	98
PIONEER BRAND	32R25	28	97
DOEBLERS	760DT	52	92
SOUTHERN STATES	842RR	38	91
AUGUSTA	2062	40	87
AUGUSTA	3562	35	84

Mid-Full Maturity Brand	Hybrid	# Observations	Relative Yield
PIONEER BRAND	32D99	32	124

* 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 3. Three Year Average RELATIVE YIELD* (2001, 2002, and 2003) of corn hybrids entered in three or more locations each year.*

Early Maturity Brand	Hybrid	# Observations	Relative Yield
AUGUSTA	4587	43	106
VIGORO	V5110	60	104
AUGUSTA	4487	39	103
AUGUSTA	3387	40	103
MID-ATLANTIC	MA9137	56	100
MID-ATLANTIC	MA8011RR	55	99
PIONEER	34B23	56	98

VIGORO	V54C29	33	98
SOUTHERN STATES	740	40	94
AUGUSTA	3685	35	91

Medium Maturity Brand	Hybrid	# Observations	Relative Yield
PIONEER	31G98	79	110
PIONEER	32R25	48	104
PIONEER	33J57	49	102
VIGORO	V5800	60	101
DOEBLERS	760DT	81	99
AUGUSTA	2062	68	96
AUGUSTA	3562	56	92
SOUTHERN STATES	842RR	54	90

* 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 4. Corn Yields at the Tidewater AREC at HOLLAND, VIRGINIA in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
NK	N65-M7	197	20.2
AUGUSTA	1185	173	22.2
AUGUSTA	3350	172	18.5
MID-ATLANTIC	MA9094CRW	166	18.8
AUGUSTA	4495	164	18.3
DOEBLERS	HC560	153	19.5
AUGUSTA	4467	128	17.7

Maturity Average	165	19.3
C.V.	8	4.5
L.S.D. (0.05)	19	1.3

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
TRISLER BY AUGUSTA	5337CB	221	23.4
MID-ATLANTIC	MA7130YG	207	23.4
TRISLER BY AUGUSTA	T-03-19CB	205	22.1
TRISLER BY AUGUSTA	5340Bt	204	22.1
VIGORO	V52Y41	200	20.2
DEKALB	DKC61-42	198	19.8
AUGUSTA	3187	196	21.0
TRISLER BY AUGUSTA	5244RR	188	19.2
TRISLER BY AUGUSTA	5253Bt	188	23.0
AUGUSTA	3387	188	19.1
AUGUSTA	4587	187	21.1
VIGORO	V51R36	186	19.4
DOEBLERS	643XYG	184	21.2
MID-ATLANTIC	MA7131YG	180	19.3
MID-ATLANTIC	MA9137	176	20.6
NK	N70-D5	176	20.3
VIGORO	V54R66	175	20.1
AUGUSTA	4487	171	19.7
AUGUSTA	3685	170	21.6
VIGORO	V54C29	169	21.4
MID-ATLANTIC	MA8011RR	168	19.5

VIGORO	V5110	166	19.2
DOEBLERS	649XY	165	18.2
AUGUSTA	3150	164	19.9
AUGUSTA	1187	162	21.6
PIONEER BRAND	34B97	160	18.4
AUGUSTA	3687	160	22.6
NK	N75-C4	157	22.2
VIGORO	V54C69	135	19.7
AUGUSTA	1150	135	20.3
NK	NX7982	134	19.3
ASGROW	RX774	133	20.6
Maturity Average		175	20.6
C.V.		10	5.7
L.S.D. (0.05)		24	1.7

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
PIONEER BRAND	31B13	237	21.9
DEKALB	DKC69-71(RR/YGCB)	225	24.4
NK	N83-Z8	223	24.0
PIONEER BRAND	31G98	219	22.8
VIGORO	V58Y41	214	23.7
HYTEST	HT7711Bt	201	21.6
DEKALB	DKC67-60(RR)	199	24.6
PIONEER BRAND	32R25	199	21.0
HYTEST	HT7710Bt/LL	198	22.4
CHEMGRO	7323RRBt	194	19.7
PIONEER BRAND	33M54	194	21.8
NK	NX8201	190	22.6
TRISLER BY AUGUSTA	T-03-21CB	187	23.9
DEKALB	DKC66-80(RR)	183	21.3
PIONEER BRAND	33V15	182	20.8
CHEMGRO	7227	181	20.5
AUGUSTA	2062	180	22.2
VIGORO	V5640	175	21.7
TRISLER BY AUGUSTA	T-5965RR	172	24.2
AUGUSTA	9550	171	21.3
AUGUSTA	5654	170	20.7
VIGORO	V5800	162	21.4
DOEBLERS	760DT	162	20.5
HYTEST	HT7761	158	20.2
Maturity Average		191	22.1
C.V.		10	5.4
L.S.D. (0.05)		28	1.7

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
CHEMGRO	7740Bt	224	24.8
PIONEER BRAND	31G66	220	25.1
VIGORO	V61R36	182	26.0
Maturity Average		209	25.3
C.V.		6	2.1
L.S.D. (0.05)		23	0.9
Location Average		181	21.2

Table 5. Two-year average corn yields at the Tidewater AREC at HOLLAND, VA in 2002 and 2003.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
NK	N65-M7	180	17.6
AUGUSTA	4495	155	17.1
Maturity Average		167	17.3
C.V.		10	2.3
L.S.D. (0.05)		20	0.5

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
AUGUSTA	3187	188	18.9
AUGUSTA	3387	176	17.2
MID-ATLANTIC	MA9137	169	17.9
AUGUSTA	4487	169	17.7
AUGUSTA	4587	169	18.7
MID-ATLANTIC	MA8011RR	167	17.4
VIGORO	V5110	166	17.4
DOEBLERS	649XY	163	16.5
PIONEER	34B97	158	16.9
VIGORO	V54C29	156	18.6
Maturity Average		168	17.7
C.V.		9	5.4
L.S.D. (0.05)		16	1.0

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
PIONEER	31G98	191	19.5
PIONEER	32R25	180	18.9
AUGUSTA	2062	166	20.0
HYTEST	HT7761	160	18.6
DOEBLERS	760DT	155	18.7
VIGORO	V5800	152	19.1
Maturity Average		167	19.1
C.V.		11	3.7
L.S.D. (0.05)		19	0.7
Location Average		168	18.1

Table 6. Three-year average corn yields at the Tidewater AREC in HOLLAND, VA in 2001, 2002, and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
AUGUSTA	4587	180	18.4
VIGORO	V5110	178	17.3
VIGORO	V54C29	171	18.3
AUGUSTA	4487	171	18.1
MID-ATLANTIC	MA8011RR	167	17.4
Maturity Average		174	17.9
C.V.		9	5.0
L.S.D. (0.05)		15	0.9

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
PIONEER BRAND	31G98	200	19.1

PIONEER BRAND	32R25	191	19.1
AUGUSTA	2062	173	20.3
DOEBLERS	760DT	167	18.7
VIGORO	V5800	165	19.0
Maturity Average		179	19.3
C.V.		12	3.9
L.S.D. (0.05)		18	0.6
Location Average		177	18.6

Table 7. Corn Yields under DRYLAND conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
AUGUSTA	3350	144	14.4	9	58.9
MID-ATLANTIC	MA9094CRW	141	14.1	5	57.2
AUGUSTA	1185	138	15.0	6	56.3
NK	N65-M7	136	14.4	5	57.2
DOEBLERS	HC560	113	15.1	3	57.6
AUGUSTA	4467	111	15.0	5	56.7
AUGUSTA	4495	106	14.2	5	57.2
Maturity Average		127	14.6	5	57.3
C.V.		13	4.4	65	1.2
L.S.D. (0.05)		25	1.0	5	1.1

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
SOUTHERN STATES	670Bt	167	15.9	11	56.6
DEKALB	DKC60-09(RR/YGCB)	157	14.3	16	58.2
DEKALB	DKC64-11(RR/YGCB)	157	15.9	2	58.6
AUGUSTA	1187	157	16.3	6	56.0
PIONEER BRAND	34B23	156	16.8	8	59.4
TRISLER BY AUGUSTA	5337CB	153	16.3	2	56.3
ASGROW	RX664RR/YG	151	14.5	14	57.0
TRISLER BY AUGUSTA	5340Bt	150	15.3	9	56.3
AUGUSTA	3150	150	15.3	7	57.1
ASGROW	RX772	149	14.2	3	58.7
NK	N75-C4	148	16.4	1	58.5
NK	NX7982	148	16.1	4	57.5
VIGORO	V54R66	146	15.2	6	58.5
DOEBLERS	749XYG	144	15.3	2	57.8
MID-ATLANTIC	MA7130YG	144	15.9	8	56.3
DEKALB	DKC63-79(YGCB)	143	15.1	12	59.2
VIGORO	V54C29	143	14.3	4	59.0
MID-ATLANTIC	MA9137	143	15.9	12	59.1
T.A. SEEDS	EX10054	142	14.3	7	56.8
DOEBLERS	649XY	142	14.3	6	56.5
AUGUSTA	3187	142	14.4	3	56.4
TRISLER BY AUGUSTA	T-03-19CB	139	16.3	4	58.0
AUGUSTA	3387	139	14.1	9	57.3
ASGROW	RX664	138	14.1	10	56.8
ASGROW	RX774	138	15.9	3	59.6
VIGORO	V52Y41	138	14.5	8	57.7
AUGUSTA	4487	137	15.3	11	55.7
VIGORO	V5110	136	13.7	4	57.0
SOUTHERN STATES	692Bt	136	14.9	3	58.2
SOUTHERN STATES	740	135	16.6	7	58.8

MID-ATLANTIC	MA8011RR	134	14.8	9	57.2
AUGUSTA	3687	134	16.2	5	57.4
TRISLER BY AUGUSTA	5244RR	133	14.5	4	56.9
NK	N70-D5	132	15.0	4	57.7
AUGUSTA	3685	131	15.9	3	57.5
VIGORO	V51R36	130	15.0	8	57.1
TRISLER BY AUGUSTA	5253Bt	128	15.7	1	57.2
PIONEER BRAND	34B97	127	15.7	8	59.3
DEKALB	DKC60-19(RR/YGCB)	126	15.9	28	56.2
DEKALB	DKC57-84(YGCB)	126	14.2	6	59.0
MID-ATLANTIC	MA7131YG	124	15.6	9	58.2
AUGUSTA	4587	120	15.3	5	57.7
DEKALB	DKC60-17(RR)	114	14.9	28	56.6
AUGUSTA	1150	100	15.2	7	57.7
VIGORO	V54C69	97	15.9	3	59.2
Maturity Average		138	15.3	7	57.6
C.V.		12	4.4	67	1.1
L.S.D. (0.05)		24	1.0	7	0.9

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
TRISLER BY AUGUSTA	T-03-21CB	157	18.7	4	59.8
PIONEER BRAND	33V15	155	16.5	3	59.7
PIONEER BRAND	31G98	153	16.2	15	58.1
NK	NX8201	152	17.6	5	58.7
AUGUSTA	2056	151	18.6	7	59.7
VIGORO	V58Y41	146	16.9	4	56.3
VIGORO	V5640	144	15.2	27	58.9
HYTEST	HT7711Bt	143	14.3	6	57.0
SOUTHERN STATES	842RR	140	17.6	17	55.0
VIGORO	V5800	135	16.3	6	59.0
CHEMGRO	7323RRBt	133	14.6	5	58.1
TRISLER BY AUGUSTA	T-5965RR	133	18.8	6	59.9
AUGUSTA	9550	131	15.7	8	58.8
PIONEER BRAND	33M54	129	16.5	5	60.5
SOUTHERN STATES	80779RR	129	15.1	4	57.1
AUGUSTA	2062	128	17.5	11	58.9
HYTEST	HT7710Bt/LL	128	14.8	2	56.9
AUGUSTA	5654	124	17.3	3	58.0
HYTEST	HT7761	123	15.4	9	57.9
AUGUSTA	3562	122	17.4	10	58.1
HYTEST	HT7727	118	16.1	6	57.8
Maturity Average		137	16.5	7	58.3
C.V.		9	3.2	58	0.7
L.S.D. (0.05)		18	0.8	6	0.6

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
PIONEER BRAND	31G66	195	18.2	3	57.7
T.A. SEEDS	TA6953	156	15.8	1	58.9
CHEMGRO	7740Bt	130	17.1	5	55.6
Maturity Average		161	17.0	3	57.4
C.V.		8	2.9	96	1.0
L.S.D. (0.05)		22	0.9	5	0.8
Location Average		138	15.6	7	57.8

Table 8. Two-year average corn yields under DRYLAND conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY, VA in 2002 and 2003.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
NK	N65-M7	100	16.2	9	55.4
AUGUSTA	4495	85	14.2	5	54.9
Maturity Average		93	15.2	6	55.1
C.V.		16	11.2	115	1.1
L.S.D. (0.05)		18	2.1	9	0.7

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
DOEBLERS	649XY	101	15.1	8	54.9
PIONEER	34B23	99	18.3	10	57.9
AUGUSTA	3387	97	16.0	16	56.3
ASGROW	RX664	95	15.7	9	55.7
VIGORO	V5110	93	16.4	15	56.2
AUGUSTA	3187	93	16.5	15	55.2
DEKALB	DKC60-19(RR/YGCB)	92	16.4	26	55.5
MID-ATLANTIC	MA9137	92	18.5	16	58.3
AUGUSTA	4487	92	16.9	15	55.6
VIGORO	V54C29	91	16.9	17	58.5
SOUTHERN STATES	692Bt	90	16.4	14	56.9
MID-ATLANTIC	MA8011RR	88	15.9	12	56.3
SOUTHERN STATES	740	87	18.8	14	57.9
PIONEER	34B97	85	16.7	19	58.3
AUGUSTA	4587	84	17.0	9	56.5
AUGUSTA	3685	75	17.1	8	56.7
Maturity Average		91	16.8	14	56.6
C.V.		16	5.5	69	1.9
L.S.D. (0.05)		15	0.9	10	1.3

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
AUGUSTA	2062	100	18.2	17	56.5
HYTEST	HT7761	94	16.4	9	56.0
PIONEER	31G98	92	17.0	14	58.0
VIGORO	V5800	86	19.2	20	57.3
AUGUSTA	3562	79	20.2	20	56.0
SOUTHERN STATES	842RR	72	21.5	12	54.6
Maturity Average		87	18.7	15	56.4
C.V.		13	5.1	54	1.1
L.S.D. (0.05)		12	1.0	9	0.7
Location Average		90	17.1	14	56.4

Table 9. Three-year average corn yields under DRYLAND conditions at the Virginia Crop Improvement Association Foundation Seed Farm in MT HOLLY, VA in 2001, 2002, and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
MID-ATLANTIC	MA9137	115	19.6	56.5
AUGUSTA	4587	115	18.4	54.8
AUGUSTA	4487	113	18.3	55.1
AUGUSTA	3387	108	17.4	55.1
VIGORO	V54C29	106	18.9	56.5

AUGUSTA	3685	105	18.6	55.3
VIGORO	V5110	102	17.5	55.7
MID-ATLANTIC	MA8011RR	102	17.2	55.4
Maturity Average		108	18.3	55.5
C.V.		20	4.9	2.0
L.S.D. (0.05)		19	0.8	1.0

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
AUGUSTA	2062	124	20.0	55.0
PIONEER BRAND	31G98	112	19.9	54.9
VIGORO	V5800	105	20.3	55.8
AUGUSTA	3562	97	21.1	54.3
Maturity Average		110	20.3	55.0
C.V.		23	5.5	1.6
L.S.D. (0.05)		21	0.9	0.8
Location Average		109	19.0	55.4

Table 10. Corn Yields under IRRIGATED conditions at the Virginia Crop Improvement Foundation Seed Farm at MT HOLLY, VIRGINIA in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
AUGUSTA	3350	244	21.7
NK	N65-M7	232	24.9
DOEBLERS	HC560	222	23.0
MID-ATLANTIC	MA9094CRW	216	23.2
AUGUSTA	1185	216	24.4
AUGUSTA	4495	194	21.1
AUGUSTA	4467	183	21.3
Maturity Average		216	22.9
C.V.		14	4.4
L.S.D. (0.05)		47	1.5

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
NK	NX7982	269	24.7
AUGUSTA	1187	265	25.1
DEKALB	DKC64-11(RR/YGCB)	261	22.9
TRISLER BY AUGUSTA	5340Bt	256	24.4
ASGROW	RX772	253	24.6
SOUTHERN STATES	692Bt	253	23.0
AUGUSTA	3187	251	24.6
AUGUSTA	4587	249	24.8
NK	N75-C4	248	25.3
DEKALB	DKC63-79(YGCB)	247	22.8
NK	N70-D5	244	24.3
TRISLER BY AUGUSTA	5337CB	242	25.7
AUGUSTA	3150	242	23.6
TRISLER BY AUGUSTA	5253Bt	240	25.1
PIONEER BRAND	34B97	240	20.7
MID-ATLANTIC	MA7130YG	240	23.9
DEKALB	DKC60-09(RR/YGCB)	239	22.5
DEKALB	DKC57-84(YGCB)	239	20.9
VIGORO	V52Y41	239	22.9
DOEBLERS	749XYG	235	24.6

DEKALB	DKC60-17(RR)	234	22.8
AUGUSTA	3685	230	24.9
AUGUSTA	4487	230	24.7
ASGROW	RX664RR/YG	228	22.3
AUGUSTA	3387	228	23.3
SOUTHERN STATES	740	228	25.8
TRISLER BY AUGUSTA	T-03-19CB	227	24.6
T.A. SEEDS	EX10054	227	23.1
DEKALB	DKC60-19(RR/YGCB)	225	23.0
VIGORO	V54R66	225	23.0
TRISLER BY AUGUSTA	5244RR	224	22.5
ASGROW	RX664	223	21.7
VIGORO	V54C29	223	24.4
VIGORO	V5110	219	22.1
VIGORO	V54C69	219	23.5
MID-ATLANTIC	MA9137	219	22.6
VIGORO	V51R36	217	24.0
ASGROW	RX774	215	22.7
PIONEER BRAND	34B23	215	22.0
DOEBLERS	649XY	215	23.5
AUGUSTA	3687	211	25.5
SOUTHERN STATES	670Bt	210	24.6
MID-ATLANTIC	MA7131YG	204	22.7
MID-ATLANTIC	MA8011RR	201	24.0
AUGUSTA	1150	201	23.9
Maturity Average		232	23.6
C.V.		10	4.6
L.S.D. (0.05)		33	1.6

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
PIONEER BRAND	33M54	296	24.4
AUGUSTA	3562	283	26.6
PIONEER BRAND	31G98	278	25.6
TRISLER BY AUGUSTA	T-03-21CB	274	25.5
PIONEER BRAND	33V15	271	23.6
VIGORO	V58Y41	269	25.4
HYTEST	HT7711Bt	259	23.7
HYTEST	HT7710Bt/LL	257	23.8
VIGORO	V5640	248	24.0
SOUTHERN STATES	842RR	248	26.4
AUGUSTA	9550	247	23.9
VIGORO	V5800	245	25.6
NK	NX8201	243	25.5
HYTEST	HT7761	242	23.6
SOUTHERN STATES	80779RR	241	24.0
CHEMGRO	7323RRBt	239	24.8
AUGUSTA	2062	239	25.4
TRISLER BY AUGUSTA	T-5965RR	232	26.3
AUGUSTA	2056	231	25.5
HYTEST	HT7727	230	24.8
AUGUSTA	5654	216	25.6
Maturity Average		252	25
C.V.		10	3.9
L.S.D. (0.05)		37	1.4

Mid-Full Maturity		Yield	Moist
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Brand/Company	Hybrid	bu/A	%
PIONEER BRAND	31G66	275	26.5
CHEMGRO	7740Bt	223	24.3
T.A. SEEDS	TA6953	192	22.3
Maturity Average		230	24.4
C.V.		8	6.3
L.S.D. (0.05)		31	2.6
Location Average		236	24

Table 11. Two-year average corn yields under IRRIGATED conditions at the Virginia Crop Improvement Association Foundation Seed Farm at MT HOLLY,VA in 2002 and 2003.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
NK	N65-M7	218	21.8
AUGUSTA	4495	175	19.1
Maturity Average		198	20.6
C.V.		13	4.7
L.S.D. (0.05)		34	1.3

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
SOUTHERN STATES	692Bt	220	20.6
AUGUSTA	3187	219	22.3
AUGUSTA	3387	213	21.0
AUGUSTA	4587	212	21.9
PIONEER	34B97	210	19.5
SOUTHERN STATES	740	207	23.2
ASGROW	RX664	206	19.9
DEKALB	DKC60-19(RR/YGCB)	204	21.4
PIONEER	34B23	204	20.4
VIGORO	V5110	202	20.0
DOEBLERS	649XY	202	20.9
AUGUSTA	3685	197	22.7
AUGUSTA	4487	196	21.9
VIGORO	V54C29	192	21.7
MID-ATLANTIC	MA9137	192	20.9
MID-ATLANTIC	MA8011RR	191	21.7
Maturity Average		204	21.2
C.V.		9	4.4
L.S.D. (0.05)		18	0.9

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
PIONEER	31G98	220	23.5
AUGUSTA	3562	215	24.9
HYTEST	HT7761	215	22.2
VIGORO	V5800	212	23.4
SOUTHERN STATES	842RR	188	24.5
AUGUSTA	2062	178	24.2
Maturity Average		204	23.8
C.V.		14	4.5
L.S.D. (0.05)		30	1.1
Location Average		204	21.8

Table 12. Three-year average corn yields under IRRIGATION at the Virginia Crop Improvement Association Foundation Seed Farm in MT HOLLY, VA in 2001, 2002, and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
AUGUSTA	3387	232	20.2
AUGUSTA	4587	230	21.3
VIGORO	V5110	224	19.3
MID-ATLANTIC	MA8011RR	222	20.3
AUGUSTA	4487	222	20.7
AUGUSTA	3685	220	21.3
MID-ATLANTIC	MA9137	218	20.3
VIGORO	V54C29	213	20.5
Maturity Average		223	20.5
C.V.		8	4.9
L.S.D. (0.05)		14	0.8

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %
PIONEER BRAND	31G98	243	22.7
VIGORO	V5800	230	22.1
AUGUSTA	3562	226	24.0
AUGUSTA	2062	203	23.3
Maturity Average		225	23.0
C.V.		12	3.9
L.S.D. (0.05)		22	0.8

Location Average 223 21.3

Table 13. Corn Yields at the Southern Piedmont AREC at BLACKSTONE, VIRGINIA in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
DOEBLERS	HC560	130	17.3	9	55.4

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
ASGROW	RX664RR/YG	159	14.4	5	55.3
DEKALB	DKC63-79(YGCB)	152	16.4	3	57.1
DEKALB	DKC57-84(YGCB)	151	15.3	1	57.3
ASGROW	RX772	149	16.2	3	57.0
DEKALB	DKC60-09(RR/YGCB)	140	14.7	1	54.8
DEKALB	DKC64-11(RR/YGCB)	137	16.7	7	56.3
ASGROW	RX774	135	15.9	8	57.8
ASGROW	RX664	130	14.7	2	55.4
VIGORO	V54R66	130	17.1	9	56.4
DEKALB	DKC60-19(RR/YGCB)	122	17.5	4	56.6
DOEBLERS	649XY	121	16.5	3	55.3
DOEBLERS	643XYG	117	16.8	5	56.1
DEKALB	DKC60-17(RR)	111	17.7	3	55.5
VIGORO	V5110	105	16.3	5	55.0
Maturity Average		132	16.1	4	56.1
C.V.		15	3.8	78	1.0
L.S.D. (0.05)		29	0.9	5	0.8

Medium Maturity		Yield	Moist	Lodging	Test Wt
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Brand/Company	Hybrid	bu/A	%	%	lb/bu
PIONEER BRAND	31G98	152	18.3	16	57.1
VIGORO	V5800	148	19.1	9	56.9
PIONEER BRAND	32R25	143	19.3	25	56.8
PIONEER BRAND	33V15	136	19.0	8	59.0
AUGUSTA	2056	132	21.7	17	57.3
DOEBLERS	760DT	128	18.9	11	56.7
PIONEER BRAND	33J57	124	16.8	22	57.1
AUGUSTA	3562	119	20.9	22	56.2
Maturity Average		136	19.3	16	57.1
C.V.		12	2.9	59	0.8
L.S.D. (0.05)		25	0.8	14	0.7

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
PIONEER BRAND	31G66	160	20.4	21	55.7
PIONEER BRAND	32D99	144	20.2	31	55.1
VIGORO	V61R36	134	22.4	13	56.4
DOEBLERS	877VRR	133	20.2	29	53.9
Maturity Average		143	20.7	24	55.2
C.V.		12	1.9	38	1.0
L.S.D. (0.05)		28	0.7	15	0.9
Location Average		135	17.8	11	56.2

Table 14. Corn Yields at the Northern Piedmont AREC in ORANGE, VIRGINIA in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
MID-ATLANTIC	MA9094CRW	248	23.9	38	74	46
NK	N65-M7	247	25.3	31	74	44
DOEBLERS	HC560	198	27.6	18	75	43
Maturity Average		231	25.6	29	74	44
C.V.		3	15.7	35	2	6
L.S.D. (0.05)		13	6.9	17	2	4

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
MID-ATLANTIC	MA7130YG	307	27.2	86	77	54
VIGORO	V52Y41	289	28.6	73	73	44
VIGORO	V51R36	273	27.8	45	75	45
DOEBLERS	643XYG	259	26.3	40	76	46
PIONEER BRAND	34B23	255	26.1	51	76	44
DOEBLERS	649XY	255	29.3	69	75	43
VIGORO	V5110	253	26.3	76	74	43
DEKALB	DKC64-11(RR/YGCB)	251	29.6	36	77	54
T.A. SEEDS	EX10054	251	28.1	62	74	45
NK	NX7982	249	30.1	63	75	46
NK	N75-C4	248	28.1	56	76	46
MID-ATLANTIC	MA8011RR	243	28.6	64	75	47
BIO GENE	1132	241	29.3	41	76	50
ASGROW	RX772	240	27.2	26	75	46
DEKALB	DKC60-19(RR/YGCB)	238	23.2	31	72	43
DEKALB	DKC57-84(YGCB)	238	27.0	31	72	47
NK	N70-D5	236	27.9	48	75	46
MID-ATLANTIC	MA7131YG	231	27.8	50	75	50

VIGORO	V54R66	230	28.5	55	78	49
DEKALB	DKC60-09(RR/YGCB)	228	27.1	41	73	43
DEKALB	DKC60-17(RR)	228	23.5	21	73	40
DEKALB	DKC63-79(YGCB)	227	32.5	63	77	49
ASGROW	RX774	223	27.8	56	76	49
ASGROW	RX664RR/YG	217	27.2	66	73	47
SOUTHERN STATES	740	216	28.7	50	76	45
ASGROW	RX664	212	26.6	19	73	48
MID-ATLANTIC	MA9137	208	26.4	63	77	46
VIGORO	V54C69	201	27.8	55	77	52
Maturity Average		241	27.6	51	75	47
C.V.		7	10.2	41	2	5
L.S.D. (0.05)		22	4	29	2	3

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
VIGORO	V58Y41	293	28.7	35	75	48
BIO GENE	1150	266	28.4	23	76	54
PIONEER BRAND	31B13	264	30.7	13	77	59
PIONEER BRAND	33J57	258	27.7	15	77	51
PIONEER BRAND	33M54	254	31.0	19	77	49
PIONEER BRAND	31G98	248	32.2	18	78	57
PIONEER BRAND	32R25	242	29.0	28	78	60
VIGORO	V5800	242	24.4	11	75	48
T.A. SEEDS	TA6900	227	24.2	16	76	47
NK	NX8201	226	28.5	25	79	56
DOEBLERS	760DT	218	26.2	21	77	46
PIONEER BRAND	33V15	213	27.5	30	79	50
BIO GENE	1152	179	31.8	49	79	50
Maturity Average		241	28.5	23	77	52
C.V.		10	11.5	47	2	5
L.S.D. (0.05)		33	4.7	16	2	3

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Days To Silk	Ear Ht inches
PIONEER BRAND	32D99	257	29.1	35	79	58
PIONEER BRAND	31G66	251	30.3	26	79	54
SOUTHERN STATES	42174RR	248	28.4	13	78	56
T.A. SEEDS	TA7000	224	26.8	12	75	49
Maturity Average		245	28.6	21	78	54
C.V.		7	10	67	1	5
L.S.D. (0.05)		28	4.6	23	2	5
Location Average		241	27.8	40	76	48

Table 15. Two-year average corn yields at the Northern Piedmont AREC in ORANGE, VA in 2002 and 2003.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Days To Silk	Ear Ht inches
NK	N65-M7	182	19.6	69	42

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Days To Silk	Ear Ht inches
DOEBLERS	649XY	180	21.7	70	42
PIONEER	34B23	175	20.4	70	44
MID-ATLANTIC	MA8011RR	170	21.4	70	43

SOUTHERN STATES	740	161	21.2	72	45
DEKALB	DKC60-19(RR/YGCB)	159	18.9	69	41
ASGROW	RX664	155	20.3	69	45
MID-ATLANTIC	MA9137	142	20.3	72	44
Maturity Average		163	20.6	70	43
C.V.		9	10.3	2	5
L.S.D. (0.05)		15	2.1	2	2

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Days To Silk	Ear Ht inches
PIONEER	33J57	180	20.8	72	48
PIONEER	32R25	176	21.8	74	56
PIONEER	31G98	175	23.4	74	52
DOEBLERS	760DT	159	20.3	72	46
Maturity Average		172	21.6	73	50
C.V.		8	10.0	2	4
L.S.D. (0.05)		15	2.3	1	2

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Days To Silk	Ear Ht inches
PIONEER	32D99	184	21.9	74	52
Location Average		169	20.9	71	46

Table 16. Three-year average corn yields at the Northern Piedmont AREC at ORANGE, VA in 2001, 2002, and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Days To Silk	Ear Ht inches
PIONEER BRAND	34B23	188	18.5	73	46
MID-ATLANTIC	MA8011RR	180	19.3	73	45
SOUTHERN STATES	740	171	19.4	75	47
MID-ATLANTIC	MA9137	161	18.7	74	46
Maturity Average		175	19.0	74	46
C.V.		12	11.0	2	6
L.S.D. (0.05)		18	1.8	1	2

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Days To Silk	Ear Ht inches
PIONEER BRAND	33J57	196	18.7	75	51
PIONEER BRAND	31G98	194	20.9	77	55
PIONEER BRAND	32R25	189	20.0	77	58
DOEBLERS	760DT	176	19.0	75	48
Maturity Average		189	19.6	76	53
C.V.		8	9.0	1	4
L.S.D. (0.05)		13	1.5	1	2
Location Average		182	19.3	75	50

Table 17. Corn Yields at the Phillips Farm in Augusta County, Virginia (SHENANDOAH VALLEY) in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
MID-ATLANTIC	MA9094CRW	166	15.6	3	55.7
DOEBLERS	HC560	153	17.3	2	55.1

Maturity Average	159	16.5	3	55.4
C.V.	18	3.4	124	0.6
L.S.D. (0.05)	63	1.2	8	0.7

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
MID-ATLANTIC	MA7130YG	195	18.4	3	53.7
DOEBLERS	638XYG	187	17.5	2	55.5
SOUTHERN STATES	692Bt	187	18.7	5	56.2
DOEBLERS	649XY	184	16.2	4	54.7
PIONEER BRAND	34B23	178	16.5	5	57.7
MID-ATLANTIC	MA9137	178	19.1	5	57.7
BIO GENE	1132	177	18.0	2	53.7
MID-ATLANTIC	MA7131YG	165	16.2	1	56.6
VIGORO	V54R66	156	17.7	3	55.9
MID-ATLANTIC	MA8011RR	154	16.5	2	55.3
VIGORO	V54C69	137	17.7	3	56.5

Maturity Average	172	17.5	3	55.8
C.V.	6	3.1	112	0.9
L.S.D. (0.05)	14	0.8	5	0.7

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
BIO GENE	1150	210	20.9	4	54.0
HYTEST	HT7711Bt	197	16.8	1	54.9
VIGORO	V58Y41	193	18.9	2	53.8
HYTEST	HT7710Bt/LL	189	16.5	1	54.4
SOUTHERN STATES	753BTCL	185	18.9	4	56.5
PIONEER BRAND	31G98	181	19.0	7	55.6
HYTEST	HT7761	181	18.2	3	55.8
VIGORO	V5800	180	17.9	5	56.1
PIONEER BRAND	33J57	172	17.0	5	55.6
T.A. SEEDS	TA6900	170	17.4	10	57.2
DOEBLERS	760DT	167	18.0	6	56.4
SOUTHERN STATES	849CL	164	18.6	7	50.4
SOUTHERN STATES	842RR	157	18.6	6	50.7
BIO GENE	1152	152	22.2	1	52.9
PIONEER BRAND	33V15	145	19.8	6	57.9

Maturity Average	176	18.6	5	54.8
C.V.	8	2.9	59	1.0
L.S.D. (0.05)	20	0.8	4	0.8

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
PIONEER BRAND	32D99	183	19.3	7	55.4
T.A. SEEDS	TA6953	182	18.5	6	57.2
PIONEER BRAND	31G66	175	19.5	6	55.1

Maturity Average	180	19.1	6	55.9
C.V.	5	2.2	72	0.7
L.S.D. (0.05)	17	0.7	8	0.7

Location Average	174	18.1	4	55.3
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Table 18. Two-year average corn yields at SHENANDOAH VALLEY, VA in 2002 and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
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SOUTHERN STATES	692Bt	165	19.0	56.4
DOEBLERS	649XY	160	16.3	55.1
PIONEER	34B23	155	17.1	58.0
MID-ATLANTIC	MA9137	155	17.9	56.7
MID-ATLANTIC	MA8011RR	151	16.6	55.1
Maturity Average		157	17.4	56.3
C.V.		8	2.8	0.7
L.S.D. (0.05)		13	0.5	0.4

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
PIONEER	33J57	167	17.2	56.3
HYTEST	HT7761	167	18.1	56.0
DOEBLERS	760DT	158	18.0	56.6
PIONEER	31G98	153	17.3	56.0
SOUTHERN STATES	842RR	139	17.7	51.4

Maturity Average		157	17.6	55.3
C.V.		9	2.9	1.1
L.S.D. (0.05)		16	0.5	0.6

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
PIONEER	32D99	171	19.0	55.9

Location Average		158	17.6	55.8
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Table 19. Three-year average corn yields at SHENANDOAH VALLEY, VA in 2001, 2002, and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
MID-ATLANTIC	MA9137	138	18.2	57.3
PIONEER BRAND	34B23	137	17.1	58.3
MID-ATLANTIC	MA8011RR	135	17.3	56.0

Maturity Average		136	17.5	57.2
C.V.		15	3.4	0.8
L.S.D. (0.05)		18	0.5	0.4

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
PIONEER BRAND	33J57	143	17.8	56.4
DOEBLERS	760DT	142	18.6	57.3
PIONEER BRAND	31G98	132	19.1	56.4
SOUTHERN STATES	842RR	121	20.2	52.1

Maturity Average		135	18.9	55.6
C.V.		16	5.3	2.1
L.S.D. (0.05)		19	0.9	1

Location Average		135	18.3	56.3
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Table 20. Corn Yields at Kentland Farm in BLACKSBURG, VIRGINIA in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
DOEBLERS	HC560	137	17.5	5	55.3

Early Maturity		Yield	Moist	Lodging	Test Wt
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Brand/Company	Hybrid	bu/A	%	%	lb/bu
VIGORO	V54C69	159	17.5	9	56.8
PIONEER BRAND	34B23	158	18.5	9	58.5
SOUTHERN STATES	691	148	17.7	7	56.6
VIGORO	V54R66	146	17.1	7	57.2
DOEBLERS	638XYG	144	16.7	9	55.4
DOEBLERS	649XY	133	16.3	5	54.9
VIGORO	V5110	132	16.7	8	55.5
T.A. SEEDS	TA6521	113	16.8	10	57.5
Maturity Average		142	17.1	8	56.5
C.V.		14	5.3	53	1.5
L.S.D. (0.05)		32	1.5	7	1.4

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
SOUTHERN STATES	842RR	211	20.4	8	51.1
SOUTHERN STATES	849CL	194	20.5	6	50.4
NK	N83-Z8	182	21.4	8	57.0
NK	NX8201	179	19.1	3	54.9
VIGORO	V58Y41	169	19.2	5	53.6
PIONEER BRAND	33J57	166	17.6	19	55.8
T.A. SEEDS	TA6900	157	18.5	6	57.3
PIONEER BRAND	33V15	155	19.0	8	60.2
SOUTHERN STATES	753BTCL	148	18.7	8	58.0
DOEBLERS	760DT	136	18.1	7	56.2
Maturity Average		170	19.2	8	55.4
C.V.		14	3.8	48	1.3
L.S.D. (0.05)		34	1	5	1.0

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Lodging %	Test Wt lb/bu
PIONEER BRAND	32D99	215	21.5	6	55.7
PIONEER BRAND	31G66	199	20.6	3	55.5
T.A. SEEDS	TA6953	170	18.4	4	57.8
VIGORO	V61R36	160	21.2	2	58.0
Maturity Average		186	20.4	4	56.7
C.V.		12	2.3	42	0.9
L.S.D. (0.05)		35	0.8	2	0.9
Location Average		162	18.7	7	56.0

Table 21. Two-year average corn yields at Kentland Farm in BLACKSBURG, VA in 2002 and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
PIONEER	34B23	117	17.4	57.6
VIGORO	V5110	112	16.3	55.0
Maturity Average		115	16.9	56.3
C.V.		20	5.9	1.2
L.S.D. (0.05)		36	1.5	0.9

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
SOUTHERN STATES	842RR	149	19.4	51.4
PIONEER	33J57	116	18.0	56.2

DOEBLERS	760DT	109	17.7	55.4
Maturity Average		125	18.4	54.2
C.V.		19	3.3	1.6
L.S.D. (0.05)		27	0.7	1.0
Location Average		121	17.8	55.0

Table 22. Three-year average corn yields at Kentland Farm in BLACKSBURG, VA in 2001, 2002, and 2003.

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
PIONEER BRAND	34B23	125	17.2	55.7

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
SOUTHERN STATES	842RR	154	21.2	50.0
PIONEER BRAND	33J57	126	17.4	53.7
DOEBLERS	760DT	122	18.1	54.8

Maturity Average		134	18.9	52.8
C.V.		17	4.6	2.7
L.S.D. (0.05)		20	0.8	1.3
Location Average		132	18.5	53.5

Table 23. Corn Yields at the Johnson Farm in WASHINGTON COUNTY, Virginia in 2003 - Virginia Tech Trials.

Very Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
DOEBLERS	HC560	202	19.7	54.9

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
DOEBLERS	649XY	213	19.4	54.4
VIGORO	V5110	206	19.4	54.3
VIGORO	V54R66	187	19.6	56.3
VIGORO	V54C69	180	19.8	56.3
T.A. SEEDS	TA6521	158	19.0	58.0

Maturity Average		189	19.4	55.8
C.V.		6	1.6	0.9
L.S.D. (0.05)		17	0.5	0.8

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
VIGORO	V58Y41	229	21.9	53.4
PIONEER BRAND	31G98	215	21.2	55.7
DOEBLERS	760DT	203	20.4	55.5
PIONEER BRAND	33V15	197	21.2	58.3

Maturity Average		211	21.2	55.7
C.V.		5	2.2	0.7
L.S.D. (0.05)		16	0.7	0.7

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
PIONEER BRAND	32D99	251	22.5	55.0

PIONEER BRAND	31G66	222	22.0	54.1
T.A. SEEDS	TA6953	212	19.8	57.8
DOEBLERS	877VRR	209	22.8	50.6
VIGORO	V61R36	190	23.1	56.9
T.A. SEEDS	TA7000	180	20.6	56.7

Maturity Average		211	21.8	55.2
C.V.		6	2	0.7
L.S.D. (0.05)		20	0.7	0.6

Location Average		203	20.8	55.5
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Table 24. Two-year average corn yields in SOUTHWEST VIRGINIA in 2002 (WYTHE COUNTY) and 2003 (WASHINGTON COUNTY).

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
VIGORO	V5110	170	24.5	51.3
DOEBLERS	649XY	170	23.2	51.9
Maturity Average		170	23.8	51.6
C.V.		6	3.1	2.6
L.S.D. (0.05)		13	0.9	1.6

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
DOEBLERS	760DT	155	25.6	51.6
Location Average		165	24.4	51.6

Table 25. Three-year average corn yields in SOUTHWEST VIRGINIA in 2001, 2002 (WYTHE COUNTY), and 2003 (WASHINGTON COUNTY).

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Test Wt lb/bu
DOEBLERS	760DT	156	21.9	53.4