

**Virginia
Corn Performance Trials
in 1994**

Companies Participating in the 1994 Corn Performance Trials

Company	Brand	Address
AG-CHEM INC. - UAP SEEDS	DYNA GRO/STINE	PO BOX 2178 SALISBURY MD 21802-2178
AGRATECH SEEDS INC.	AGRATECH	5559 N 500 W McCORDSVILLE ID 46055
ASGROW SEED CO.	ASGROW	7000 PORTAGE RD KALAMAZOO MI 49001
AUGUSTA SEED CORPORATION	AUGUSTA	RT 2 BOX 16B MT SOLON VA 22843
BEACHLEY-HARDY SEED CO.	HYTEST	PO BOX 3147 SHIREMANSTOWN PA 17011
BECK'S SUPERIOR HYBRIDS	BECK'S	6767 E 276 ST ATLANTA IN 46031
CARGILL HYBRID SEEDS	CARGILL	PO BOX 5645 MINNEAPOLIS MN 55440
CAVERNDALE FARMS INC.	CAVERNDALE	1921 BLUEGRASS RD DANVILLE KY 40422-9293
DEKALB PLANT GENETICS	DEKALB	3100 SYCAMORE RD DEKALB IL 60115
DOEBLER'S PA. HYBRIDS INC.	DOEBLER'S	RD 1 BOX 424 JERSEY SHORE PA 17740
DOWELANCO	DOWELANCO	1562 TAYLOR AVE MARSHALLTOWN IA 50158
HOFFMAN SEEDS INC.	CIBA SEEDS/FUNK'S G	144 MAIN ST LANDISVILLE PA 17538
HYPERFORMER SEED CO.	HYPERFORMER	ONE HY CROP ROW MEMPHIS TN 38120
LONGEST SEED CO., INC.	LONGEST	PO BOX 45 ST STEPHENS CHURCH VA 23148
LYNKS SEED CO. 50158	LYNKS	BOX 637 1562 TAYLOR AVE MARSHALLTOWN IA
MYCOGEN PLANT SCIENCES	MYCOGEN	624 27TH ST LUBBOCK TX 79404
NORTHRUP KING CO.	NORTHRUP KING	317 330TH ST STANTON MN 55018-4308
PIONEER HI-BRED INT., INC.	PIONEER BRAND	1000 W JEFFERSON ST TIPTON IN 46072
SOUTHERN STATES COOP., INC.	SS	PO BOX 26234 RICHMOND VA 23630
TERRA INTERNATIONAL INC.	TERRA	PO BOX 6000 SIOUX CITY IA 51102-6000
WILSON SEEDS, INC.	WILSON	PO BOX 391 HARLAN IA 51537

VIRGINIA CORN PERFORMANCE TRIALS IN 1994

Coordinated by H. Behl, E. R. Bender and D. E. Brann

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R.R. Wilmouth; D.E. Starner; W. Robinson; J. Waddle; J. Wooge; D.A. Fiske; G. Garber;

Performance trials of commercial corn hybrids were conducted at eight locations in Virginia in 1994. A list of the companies participating in the trials is shown in the table accompanying this information. At Mt. Holly, the hybrids were evaluated under irrigated and non-irrigated conditions. At Blackstone, all hybrids were planted to achieve 18,000 and 22,000 plants/acre.

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 an Almaco two row plot planter at the desired population. Orange was planted by hand and thinned to the desired population. All locations except Orange and Painter were harvested with a Gleaner E-Series combine that has been modified for plot harvest. Orange and Painter were hand harvested and shelled to obtain grain weights. There was no appreciable lodging at any location. 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 any one particular 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 hybrid yield potential compared to other hybrids.

1994 PLOT INFORMATION
(Rates are on a per acre basis.)

Blacksburg	Whitethorne Farm	Fertilizer:	100 lb N + 40 lb P + 80 lb K preplant incorporated + 100 lb N sidedressed May 26
Planted:	May 13, 1994	Irrigation:	1" Jun 20; 0.5" Jun 28; 1" Jul 8; 0.5" Jul 13; 1" Jul 24;
Harvested:	October 25, 1994	Plot Size:	2 rows 25' x 30" 4 replications
Pesticide:	3 qt Lasso + 1.5 lb Atrazine + 1 lb Simazine + 0.5 pt Ambush	Soil Series:	State fine sandy loam
Fertilizer:	30 lb N + 60 lb P + 60 lb K preplant 170 lb N sidedressed July 1, 1994	Cooperator:	Bruce Beahm
Plot Size:	2 rows 25' x 30" 4 replications		
Soil Series:	Hayter		
Cooperator:	J. Wooge, E. Stromberg, S. Hagood		
Blackstone	Southern Piedmont Agricultural Research & Extension Center		
Planted:	April 21, 1994		
Harvested:	September 19, 1994		
Pesticide:	2 qt Bladex 4L + 1 qt Dual 8E/A April 21, 1994		
Fertilizer:	1000 lb 10-10-10/A preplant incorporated April 12, 1994 + 75 lb ammonium nitrate broadcasted May 31, 1994		
Plot Size:	1 row 25' x 30" 4 replications for each population (18,000 and 22,000 plants/acre)		
Soil Series:	Dothan-Norfolk		
Cooperators:	W. B. Wilkinson and R. R. Wilmouth		
Holland	Tidewater Agricultural Research & Extension Center		
Planted:	April 19, 1994		
Harvested:	September 14-15, 1994		
Pesticide:	3 qt Lariat April 21, 1994		
Fertilizer:	2000 lb lime January 10, 1994 + 500 lb 5-10-30 preplant incorporated March 24 + 60 units N sidedressed April 21 + 90 units N June 8		
Plot Size:	2 rows 25' x 30" 4 replications		
Soil Series:	Nansemond fine sandy loam		
Cooperator:	J. J. Riddick		
Mt Holly (dry)	Virginia Crop Improvement Association Farm		
Planted:	April 20, 1994		
Harvested:	September 21, 1994		
Pesticide:	1.8 qt Bicep 6L + 0.5 pt Aatrex May 26, 1994		
Fertilizer:	60 lb N + 25 lb P + 40 lb K preplant incorporated + 65 lb N sidedressed May 26		
Plot Size:	2 rows 25' x 30" 4 replications		
Soil Series:	State fine sandy loam		
Cooperator:	Bruce Beahm		
Mt Holly (irr)	Virginia Crop Improvement Association Farm		
Planted:	April 20, 1994		
Harvested:	September 20, 1994		
Pesticide:	1.8 qt Bicep 6L + 0.5 pt Aatrex May 26, 1994		

Orange Northern Piedmont Agricultural Research & Extension Center

Planted: April 27, 1994
Harvested: October 20-21, 1994
Pesticide: 3 qt Bicep April 26, 1994
Fertilizer: 1000 lb 5-10-10 preplant incorporated April 25, 1994 + 100 lb N sidedressed June 14
Plot Size: 1 row 30' x 30" 4 replications
Soil Series: Davidson silty clay
Cooperator: D. E. Starner

Painter Eastern Shore Agricultural Research & Extension Center

Planted: April 18, 1994
Harvested: September 20, 1994
Pesticide: 2 qt Bicep + 1 pt Paraquat/A with 0.5 pt X-77 per 1000 gal April 21, 1994
Fertilizer: 500 lb 5-10-10/A April 18, 1994 + 115 lb N sidedressed June 1, 1994
Plot Size: 1 row 25' x 30" 4 replications
Soil Series: Local Collovum over clay
Cooperator: T. Custis

Smyth County

Planted: May 11, 1994
Harvested: November 2, 1994
Pesticide: 2.5 qt Bicep 6L + 1.5 pt Gramoxone + 6.4 oz Asana
Fertilizer: 150 lb N + 50 lb P + 50 lb K preplant
Plot Size: 2 rows 25' x 30" 4 replications
Cooperator: W. J. Robinson and J. Waddle

Augusta County

Planted: May 2, 1994
Harvested: October 7, 1994
Pesticide: 1.5 qt Aatrex + 1.25 at Broadstrike + 1.25 qt Princep + 8 lb Force
Fertilizer: 6000 gal dairy manure + 50 lb N + 1.5 lb S April 1994
Plot Size: 2 rows 25' x 30" 4 replications
Cooperator: David Fiske and Gerald Garber

1994 RELATIVE* YIELD of hybrids entered in three or more locations.

EARLY MATURITY

BRAND	HYBRID MEAN	HOLLAND	MT HOLLY		PAINTER	BLACKSTONE			BLACKS-			
			DRY	IRR		LOW	HIGH	ORANGE	SMYTH	BURG	AUGUSTA	
DEKALB	DK646	114	119	113	-	-	-	-	-	117	115	116
BECK'S	5405	116	108	103	-	-	-	-	-	104	-	108
AUGUSTA	A613aa	122	100	102	-	-	-	106	-	-	-	107
PIONEER	3245	108	111	100	-	100	108	104	88	-	105	103
AUGUSTA	A513	102	106	100	112	-	-	102	-	96	-	103
DEKALB	DK623	105	102	102	-	-	-	-	-	-	-	103
NORTHRUP KING	N7989	-	103	98	-	-	-	97	101	-	117	102
SOUTHERN STATES	SS742A	83	95	103	111	101	94	112	115	105	101	102
AUGUSTA	A505DS	93	104	109	-	-	-	-	-	-	-	102
SOUTHERN STATES	SS682	-	95	98	-	-	-	-	-	92	121	100
DOEBLERS	69XP	-	-	-	-	-	-	100	-	104	95	100
HY-PERFORMER	HS9502	103	97	98	-	-	-	-	-	-	-	99
TERRA INT'L	TR1101	-	95	94	-	90	93	-	103	98	-	96
PIONEER	3394	117	96	98	108	89	80	93	-	96	85	96
PIONEER	3525	-	102	101	109	84	93	94	87	88	90	94
DOEBLERS	73XP	104	79	95	-	-	-	95	-	98	97	94
PIONEER	3241	-	-	-	-	-	-	92	87	96	104	94
BECK'S	54XA	98	84	81	-	-	-	-	-	101	-	91
NORTHRUP KING	N6330	-	80	96	-	-	-	95	-	-	87	90
AUGUSTA	A505	88	83	96	-	-	-	88	-	95	-	90
FUNK'S G	4473	83	-	-	-	-	-	82	-	-	97	87
DOWELANCO	XHP17194	90	80	78	98	71	82	71	78	104	70	82
PIONEER	3489	-	95	94	73	75	77	80	55	85	-	79
DOEBLERS	606XP	-	73	71	-	-	-	81	-	-	75	75
DOWELANCO	XHP17193	89	83	80	80	65	73	60	49	81	74	73
STINE	1080	80	-	-	-	-	-	54	-	-	89	73

MEDIUM MATURITY

BRAND	HYBRID MEAN	HOLLAND	MT HOLLY		PAINTER	BLACKSTONE			BLACKS-			
			DRY	IRR		LOW	HIGH	ORANGE	SMYTH	BURG	AUGUSTA	
PIONEER	X1183C	110	129	123	-	120	110	114	105	107	123	115
AGRATECH	737	107	-	-	-	120	115	-	-	-	-	114
PIONEER	3163	116	113	120	95	115	118	116	108	109	113	112
SOUTHERN STATES	SS827	106	117	114	-	-	-	116	117	111	99	112
TERRA INT'L	TR1185	-	128	122	-	120	112	-	100	82	-	111
NORTHRUP KING	N8656	117	113	107	-	-	-	106	102	-	125	111
CAVERNDAL FARM	CF9314	-	-	-	-	100	113	-	117	114	-	111
SOUTHERN STATES	SS883A	90	126	110	-	108	107	112	118	109	111	110
SOUTHERN STATES	XP54003	116	108	102	115	119	97	-	-	-	-	110
BECK'S	EX1354	100	-	-	-	-	-	103	117	-	-	106
CARGILL	8527A	104	-	-	-	119	108	-	-	94	-	106

DEKALB	DK683	103	126	113	-	-	-	99	91	98	106	105
MYCOGEN	8240	82	113	113	-	-	-	103	-	112	-	105
FUNK'S G	4554	105	-	-	-	-	-	-	-	-	-	105
AGRATECH	810	103	-	-	-	103	108	-	-	-	-	104
PIONEER	3140	106	111	108	-	98	96	99	101	99	125	104
CARGILL	8327	110	103	100	-	-	-	111	-	95	-	104
DYNA-GRO	5565	98	108	101	-	-	-	110	-	-	100	103
DOEBLERS	82XP	99	106	99	-	-	-	116	-	104	95	103
LYNKS	2807	-	97	99	-	-	-	98	-	-	124	103
BECK'S	68	-	101	96	-	-	-	105	100	106	-	102
SOUTHERN STATES	SS812	93	109	104	-	-	-	116	88	107	90	101
HYTEST	HT7728	-	100	97	-	107	95	-	-	-	-	100
SOUTHERN STATES	SS793	93	91	99	111	102	106	-	-	-	-	100

MEDIUM MATURITY (continued)

BRAND	HYBRID MEAN	HOLLAND	MT HOLLY		BLACKSTONE			BLACKS-				
			DRY	IRR	PAINTER	LOW	HIGH	ORANGE	SMYTH	BURG	AUGUSTA	
HY-PERFORMER	HS9843	99	90	101	117	-	-	104	-	95	97	100
BECK'S	7101	102	101	104	-	-	-	105	-	90	-	100
HY-PERFORMER	HS9704	-	95	101	99	-	-	105	-	98	100	100
CAVERNDALE FARMS	CF953	-	-	-	-	97	105	-	101	94	-	99
TERRA INT'L	TR1167	-	106	101	-	100	89	-	102	97	-	99
NORTHROP KING	N8020	-	86	103	-	-	-	105	104	-	91	98
AUGUSTA	A614	-	92	96	-	-	-	103	-	-	-	97
AUGUSTA	A617	96	97	98	-	-	-	-	-	-	-	97
ASGROW	RX770	99	89	99	-	-	-	97	-	-	-	96
DOEBLERS	737XP	100	92	92	-	-	-	97	-	92	-	94
DEKALB	DK678	77	98	99	-	-	-	-	-	87	104	92
STINE	1133	91	-	-	-	-	-	90	-	-	91	91
WILSON	DEMAND 118	61	94	94	109	-	-	85	-	-	-	89
WILSON	DEMAND 119	68	101	93	93	-	-	86	-	-	-	88
DOWELANCO	XHP18071	58	99	89	82	87	87	83	98	89	99	87
DOWELANCO	XHP18069	66	92	91	85	78	94	81	95	81	86	85
DOWELANCO	XHP18070	66	96	86	90	87	88	85	83	89	83	85

MID-FULL MATURITY

BRAND	HYBRID MEAN	HOLLAND	MT HOLLY		BLACKSTONE			BLACKS-				
			DRY	IRR	PAINTER	LOW	HIGH	ORANGE	SMYTH	BURG	AUGUSTA	
SOUTHERN STATES	SS943	118	129	124	-	115	118	118	111	121	119	119
PIONEER	3154	-	-	-	-	117	112	112	133	114	113	117
NORTHROP KING	N8727	113	110	115	-	-	-	118	101	-	123	113
PIONEER	3165	103	118	121	-	102	114	113	-	-	-	112
PIONEER	3085	104	-	-	-	-	-	129	111	-	101	112
MYCOGEN	9220	116	-	-	-	111	106	-	-	-	-	111
ASGROW	RX919	110	119	114	-	-	-	99	-	-	-	110
BECK'S	8808	-	-	-	-	-	-	119	100	105	-	108
NORTHROP KING	N8811	114	117	113	-	-	-	105	102	-	95	108
DEKALB	DK743	86	119	117	-	-	-	-	110	125	80	107
PIONEER	3156	120	102	105	-	108	105	99	101	101	102	105
CAVERNDALE FARMS	CF9418	-	-	-	-	109	113	-	98	97	-	104
TERRA INT'L	TR702E	-	111	102	-	92	100	-	101	111	-	103
DOEBLERS	86XA2	100	98	105	-	-	-	102	-	-	96	101
LYNKS	2868	93	-	-	-	-	-	112	-	-	97	101
ASGROW	RX897	87	102	104	-	-	-	108	-	-	-	100
DYNA-GRO	5516	-	96	100	-	-	-	-	-	-	100	98
STINE	1145	96	-	-	-	-	-	100	-	-	92	96

* 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 corn hybrids at Blackstone were planted with four replications each of 18,000 and 22,000 plants/acre.

TWO YEAR AVERAGE RELATIVE YIELD (1993-1994) of hybrids entered in the same three or more locations.

Early Maturity

Brand\Company	Hybrid	# Observations	Relative Yield
DEKALB	DK646	24	115
AUGUSTA	A613aa	24	113
PIONEER	3394	48	106
AUGUSTA	A513	40	105
PIONEER	3525	48	104
PIONEER	3245	48	104
SOUTHERN STATES	SS742A	64	104
NORTHRUP KING	N7989	24	101
DOEBLERS	73XP	32	100
BECK'S	54XA	24	99
AUGUSTA	A505	32	96
PIONEER	3241	24	94

Medium Maturity

Brand\Company	Hybrid	# Observations	Relative Yield
SOUTHERN STATES	SS793	40	113
PIONEER	3140	56	108
PIONEER	3163	56	107
SOUTHERN STATES	SS812	40	106
DOEBLERS	82XP	32	105
HY-PERFORMER	HS9843	32	104
BECK'S	68	24	102
AGRATECH	810	24	102
HY-PERFORMER	HS9704	24	102
MYCOGEN	8240	32	101
DEKALB	DK678	24	98
CARGILL	8327	32	98
ASGROW	RX770	24	95
HYTEST	HT7728	24	95
WILSON	DEMAND 119	32	86

Mid-Full Maturity

Brand\Company	Hybrid	# Observations	Relative Yield
PIONEER	3154	40	120
SOUTHERN STATES	SS943	48	115
PIONEER	3165	40	115
NORTHRUP KING	N8727	32	114
MYCOGEN	9220	24	110
DEKALB	DK743	24	110
PIONEER	3085	24	109
PIONEER	3156	56	108
NORTHRUP KING	N8811	32	106

THREE YEAR AVERAGE RELATIVE YIELD (1992-1994) of hybrids entered in the same three or more locations.

Early Maturity

Brand\Company	Hybrid	# Observations	Relative Yield
DEKALB	DK646	36	114
PIONEER	3394	72	106
PIONEER	3245	72	105
AUGUSTA	A513	60	104
NORTHRUP KING	N7989	36	103
DOEBLERS	73XP	48	101
BECK'S	54XA	36	100
PIONEER	3241	36	97
AUGUSTA	A505	48	97

Medium Maturity

Brand\Company	Hybrid	# Observations	Relative Yield
PIONEER	3163	84	112
SOUTHERN STATES	SS793	60	109
PIONEER	3140	84	108
HY-PERFORMER	HS9843	48	107
SOUTHERN STATES	SS812	60	106
HY-PERFORMER	HS9704	36	105
DOEBLERS	82XP	48	104

Mid-Full Maturity

Brand\Company	Hybrid	# Observations	Relative Yield
SOUTHERN STATES	SS943	36	117
PIONEER	3154	60	117
PIONEER	3165	60	115
NORTHRUP KING	N8727	48	112
MYCOGEN	9220	36	110
PIONEER	3156	84	108
PIONEER	3085	36	108
NORTHRUP KING	N8811	48	106

1994 HYBRID CORN TEST

HOLLAND, VA 1994

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
DYNA-GRO	5509	135	17.6	22143
AUGUSTA	A613aa	131	17.5	22361
PIONEER	3394	125	16.3	22506
BECK'S	5405	124	17.0	22361
DEKALB	DK646	122	17.8	22361
PIONEER	3245	116	17.2	22070
DEKALB	DK623	112	18.5	21490
DOEBLERS	73XP	111	16.8	22361
HY-PERFORMER	HS9502	111	17.3	22506
AUGUSTA	A513	110	18.5	21417
BECK'S	54XA	104	16.9	21490
AGRATECH	660	104	17.0	23015
AUGUSTA	A713	104	18.3	20691
AUGUSTA	A505DS	100	17.9	21635
DOEBLERS	62XP	98	14.7	21925
DOWELANCO	XHP17194	96	17.9	22070
DOWELANCO	XHP17193	95	16.3	22361
AUGUSTA	A505	94	16.6	21780
FUNK'S G	4473	89	15.8	19239
SOUTHERN STATES	SS742A	89	18.0	21998
STINE	1080	86	15.6	20836
Maturity Average		107	17.1	21839
LSD		26	1.1	1152
Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
NORTHROP KING	N8656	125	19.5	22071
PIONEER	3163	124	17.9	22651
SOUTHERN STATES	XP54003	124	17.9	22579
HYTEST	HT7748	121	18.1	21707
HY-PERFORMER	HB847002	120	21.5	21925
CARGILL	8327	118	17.7	22724
HY-PERFORMER	HY9899V	118	21.4	21417
PIONEER	X1183C	117	17.7	22579
DOEBLERS	777XP	115	17.9	23668
DYNA-GRO	5564	114	17.9	22651
AGRATECH	737	114	17.9	22651
SOUTHERN STATES	SS827	114	19.2	22143
FUNK'S G	4554	113	16.0	22942
PIONEER	3140	113	19.1	21780
CARGILL	8527A	111	19.7	22797
AUGUSTA	A412	111	20.1	23087
DEKALB	DK683	110	19.7	22361
AGRATECH	810	110	18.9	21925
HY-PERFORMER	HS9905	110	19.6	22288

Medium Maturity (continued)		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
BECK'S	7101	109	17.7	22361
DOEBLERS	737XP	108	17.0	21490
BECK'S	EX1354	107	19.5	22288
DOEBLERS	82XP	106	18.0	22433
ASGROW	RX770	106	17.9	21708
HY-PERFORMER	HS9843	106	17.7	22216
DYNA-GRO	5565	105	17.9	22724
AUGUSTA	A617	103	17.6	22216
SOUTHERN STATES	SS793	100	18.1	22724
SOUTHERN STATES	SS812	100	17.5	22288
STINE	1133	97	16.4	22361
SOUTHERN STATES	SS883A	97	21.4	22361
MYCOGEN	8240	88	18.3	22579
DEKALB	DK678	82	18.8	22724
WILSON	DEMAND 119	73	20.5	21925
DOWELANCO	XHP18069	71	20.1	22071
DOWELANCO	XHP18070	70	21.1	22506
WILSON	DEMAND 118	66	21.0	21199
DOWELANCO	XHP18071	62	19.4	21998
Maturity Average		104	18.8	22319
LSD		22	1.1	1229

Mid-Full Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
PIONEER	3156	129	19.2	22361
SOUTHERN STATES	SS943	126	22.3	23378
MYCOGEN	9220	125	20.8	21490
NORTHRUP KING	N8811	122	20.6	22070
NORTHRUP KING	N8727	121	19.9	22724
ASGROW	RX919	118	20.6	21562
HY-PERFORMER	HS9944	118	19.6	22361
PIONEER	3055	114	21.5	22942
PIONEER	3085	111	19.7	22651
PIONEER	3165	111	20.3	22288
HY-PERFORMER	HY9919	108	21.2	21635
DOEBLERS	86XA2	107	18.8	22506
STINE	1145	102	16.9	22724
LYNKS	2868	99	17.6	22579
FUNK'S G	4631	98	18.7	22434
ASGROW	RX897	93	18.3	22651
DEKALB	DK743	91	20.7	21853
Maturity Average		111	19.8	22365
LSD		19	1.1	806
Location Average		107	18.5	22196

**Two Year Averages
HOLLAND, VA 1993/1994**

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
AUGUSTA	A613aa	110	17.2	21199
DEKALB	DK646	106	18.0	21054
PIONEER	3394	102	15.9	21562
PIONEER	3245	100	16.7	21018
HY-PERFORMER	HS9502	93	16.8	21707
DOEBLERS	73XP	91	16.5	21453
AUGUSTA	A513	91	17.9	20582
BECK'S	54XA	91	16.3	20328
DOEBLERS	62XP	87	15.0	21127
AUGUSTA	A713	83	17.7	20292
FUNK'S G	4473	82	16.0	19239
SOUTHERN STATES	SS742A	82	17.3	21199
AUGUSTA	A505	79	16.8	21381

Maturity Average		92	16.8	20934
LSD (0.05)		20	0.8	702

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
NORTHRUP KING	N8656	98	18.6	19965
PIONEER	3163	98	17.4	21344
AGRATECH	810	97	17.8	20909
HY-PERFORMER	HY9899V	97	20.9	19529
HY-PERFORMER	HS9905	96	18.5	20727
DOEBLERS	82XP	95	17.6	21018
HYTEST	HT7748	91	17.8	21090
AUGUSTA	A617	91	17.3	20836
HY-PERFORMER	HS9843	90	17.6	20873
SOUTHERN STATES	SS812	88	17.0	21236
CARGILL	8327	88	18.1	21127
PIONEER	3140	83	18.3	20618
SOUTHERN STATES	SS793	82	17.4	20909
ASGROW	RX770	81	17.3	20691
DEKALB	DK678	79	17.3	20691
MYCOGEN	8240	76	17.9	21671
WILSON	DEMAND 119	67	20.2	20727

Maturity Average		88	18.1	20821
LSD (0.05)		17	0.8	646

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
NORTHRUP KING	N8727	103	19.7	21199
SOUTHERN STATES	SS943	100	20.5	21853

Mid-Full Maturity (continued)		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
HY-PERFORMER	HS9944	100	18.8	21526
MYCOGEN	9220	99	20.6	20582
PIONEER	3156	98	18.9	21054
PIONEER	3165	96	20.5	21490
ASGROW	RX919	95	19.9	20582
NORTHRUP KING	N8811	95	19.9	20945
DOEBLERS	86XA2	89	18.4	21199
PIONEER	3085	86	19.4	21272
HY-PERFORMER	HY9919	84	19.8	21707
DEKALB	DK743	80	20.7	20982
LYNKS	2868	76	17.7	21417
FUNK'S G	4631	72	18.5	20982
Maturity Average		91	19.5	21199
LSD (0.05)		14	0.9	737
Location Average		90	18.1	20975

Three Year Averages
HOLLAND, VA 1992/1994

Early Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
DEKALB	DK646	129	20.1	21562
PIONEER	3245	128	18.7	21562
PIONEER	3394	124	17.3	21925
DOEBLERS	73XP	118	18.2	21828
HY-PERFORMER	HS9502	118	18.5	21949
AUGUSTA	A513	115	19.8	21127
BECK'S	54XA	114	17.7	21151
AUGUSTA	A505	103	18.5	21732
Maturity Average		119	18.6	21605
LSD (0.05)		13	0.9	478

Medium Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
PIONEER	3163	131	20.0	21804
DOEBLERS	82XP	121	19.5	21659
HY-PERFORMER	HS9905	121	19.8	21465
HY-PERFORMER	HS9843	119	19.3	21562
HYTEST	HT7748	118	19.7	21562
PIONEER	3140	115	20.2	20909
SOUTHERN STATES	SS812	115	19.3	21707
SOUTHERN STATES	SS793	109	19.1	21296
Maturity Average		119	19.6	21496
LSD (0.05)		13	1.0	547

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
PIONEER	3156	132	20.2	21756
SOUTHERN STATES	SS943	127	23.1	22070
PIONEER	3165	126	22.8	21828
NORTHRUP KING	N8727	125	20.9	21780
NORTHRUP KING	N8811	124	21.5	21514
MYCOGEN	9220	124	22.1	21344
ASGROW	RX919	117	22.9	21223
PIONEER	3085	112	22.5	21828
DEKALB	DK743	112	22.1	21732
LYNKS	2868	101	19.9	21853
FUNK'S G	4631	100	20.3	21417
Maturity Average		118	21.7	21668
LSD (0.05)		14	1.0	554
Location Average		118	20.2	21598

1994 HYBRID CORN TEST

MT HOLLY, VA 1994 Non-irrigated

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
DEKALB	DK646	170	17.5	22390
AUGUSTA	A518	164	22.6	22041
AUGUSTA	A717	157	20.2	20909
PIONEER	3245	157	18.3	21955
BECK'S	5405	153	16.5	22390
AUGUSTA	A513	150	18.0	20735
AUGUSTA	A504	148	18.1	23436
AUGUSTA	A505DS	147	18.3	21954
NORTHRUP KING	N7989	146	16.6	21955
DEKALB	DK623	145	17.5	22216
AUGUSTA	A6497	144	17.1	22564
PIONEER	3525	144	16.5	23174
AUGUSTA	A718	143	17.3	22216
AUGUSTA	A613aa	142	18.6	21519
DYNA-GRO	5563	140	16.8	21519
HY-PERFORMER	HS9502	137	16.8	22477
AUGUSTA	A304	137	15.8	21519
PIONEER	3394	137	16.2	22826
HY-PERFORMER	HY9490	136	16.1	21170
SOUTHERN STATES	SS742A	135	17.8	21780
TERRA INTERNAT'L	TR1101	135	16.4	21780
SOUTHERN STATES	SS682	135	17.0	23000
PIONEER	3489	135	16.0	21257
BECK'S	57	133	15.3	22651
AUGUSTA	A813	132	18.3	21519
AUGUSTA	A605DS	129	18.5	22042

Early Maturity (continued)		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
AUGUSTA	A818	129	16.2	22738
AUGUSTA	A508	122	15.5	23349
BECK'S	54XA	120	16.2	20909
AUGUSTA	A604	119	15.7	20822
AUGUSTA	A505	119	16.3	21257
DOWELANCO	XHP17193	117	17.3	21170
NORTHROP KING	N6330	114	16.5	21867
LONGEST	L15	114	17.4	23000
DOWELANCO	XHP17194	113	17.2	21606
DOEBLERS	73XP	112	16.9	22216
DOEBLERS	606XP	103	15.7	22564
AUGUSTA	A501	85	15.2	22390
Maturity Average		134	17.1	22023
LSD		19	1.2	1553

Medium Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
PIONEER	X1183C	183	18.3	23348
TERRA INTERNAT'L	TR1185	182	21.0	22652
SOUTHERN STATES	SS883A	179	20.4	22564
DEKALB	DK683	178	19.1	22303
SOUTHERN STATES	SS827	167	20.6	21606
MYCOGEN	8240	161	19.0	22564
PIONEER	3163	161	19.1	22390
NORTHROP KING	N8656	160	20.4	22477
PIONEER	3140	157	18.5	21867
DYNA-GRO	5565	154	18.0	21345
SOUTHERN STATES	XP54003	154	18.2	23261
SOUTHERN STATES	SS812	154	17.6	23174
DOEBLERS	82XP	151	17.9	22303
TERRA INTERNAT'L	TR1167	150	18.1	22477
CARGILL	8327	146	17.8	22564
WILSON	DEMAND 119	144	20.9	21257
HY-PERFORMER	HS9848	144	17.4	25439
BECK'S	7101	143	18.8	22477
BECK'S	68	143	18.1	22390
HYTEST	HT7728	142	17.4	22477
DOWELANCO	XHP18071	141	20.6	22041
DEKALB	DK678	139	18.5	21780
LYNKS	2807	137	16.8	22826
AUGUSTA	A617	137	16.8	22651
DOWELANCO	XHP18070	136	21.0	21693
HY-PERFORMER	HS9704	136	18.9	21606
HY-PERFORMER	HY9610	135	17.4	22739
WILSON	DEMAND 118	134	21.1	19950
AUGUSTA	A614	131	16.0	21432
DOWELANCO	XHP18069	130	20.0	20822
SOUTHERN STATES	SS793	130	18.8	22041

Medium Maturity (continued)		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
DOEBLERS	737XP	130	16.6	22738
AUGUSTA	A616	129	18.0	22564
HY-PERFORMER	HS9843	128	18.8	22303
ASGROW	RX770	126	17.0	22913
NORTHRUP KING	N8020	122	18.1	21432
Maturity Average		146	18.6	22291
LSD		17	1.3	1122

Mid-Full Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
SOUTHERN STATES	SS943	182	21.8	22739
DEKALB	DK743	169	20.9	20996
PIONEER	3165	168	22.4	22564
ASGROW	RX919	168	21.5	20822
NORTHRUP KING	N8811	165	21.1	22390
TERRA INTERNAT'L	TR702E	157	20.1	22738
NORTHRUP KING	N8727	156	21.3	22564
PIONEER	3156	145	20.5	21780
ASGROW	RX897	144	18.5	22303
DOEBLERS	86XA2	139	19.9	22564
DOEBLERS	777XP	139	16.6	22216
DYNA-GRO	5516	136	18.0	22041
Maturity Average		156	20.2	22143
LSD		20	1.3	1042
Location Average		142	18.2	22152

1994 HYBRID CORN TEST

MT HOLLY, VA 1994 - Irrigated

Early Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
DEKALB	DK646	186	18.9	26136
AUGUSTA	A518	180	22.3	24916
AUGUSTA	A505DS	179	18.3	27182
AUGUSTA	A504	176	18.4	24917
AUGUSTA	A6497	174	17.9	25265
AUGUSTA	A813	171	18.5	25788
SOUTHERN STATES	SS742A	169	17.6	25787
BECK'S	5405	169	17.9	25614
AUGUSTA	A613aa	167	19.4	25265
DEKALB	DK623	167	18.2	25323
AUGUSTA	A605DS	167	20.0	24858
PIONEER	3525	166	16.9	27269
AUGUSTA	A717	166	19.2	23784

Early Maturity (continued)		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
AUGUSTA	A513	164	18.6	24568
PIONEER	3245	164	18.8	21954
PIONEER	3394	161	17.3	25788
SOUTHERN STATES	SS682	160	17.3	26223
HY-PERFORMER	HS9502	160	17.7	25439
NORTHRUP KING	N7989	160	18.1	24045
AUGUSTA	A304	159	16.1	25091
AUGUSTA	A718	159	17.5	25178
NORTHRUP KING	N6330	157	16.6	25614
AUGUSTA	A505	157	17.8	23958
DOEBLERS	73XP	155	17.1	26920
HY-PERFORMER	HY9490	154	17.5	23610
PIONEER	3489	154	16.6	25352
TERRA INTERNAT'L	TR1101	154	17.3	26049
DYNA-GRO	5563	151	18.1	26223
AUGUSTA	A508	148	15.6	22651
AUGUSTA	A818	139	17.6	27007
AUGUSTA	A501	138	16.0	26049
BECK'S	57	136	15.9	24829
BECK'S	54XA	133	17.3	23348
DOWELANCO	XHP17193	131	18.6	26136
AUGUSTA	A604	130	17.4	23610
DOWELANCO	XHP17194	128	18.6	23871
LONGEST	L15	127	17.1	17337
DOEBLERS	606XP	116	16.7	21606

Maturity Average		156	17.8	24857
LSD		19	1.1	3009

Medium Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
PIONEER	X1183C	202	19.2	25352
TERRA INTERNAT'L	TR1185	199	21.3	27443
PIONEER	3163	197	19.6	26833
SOUTHERN STATES	SS827	187	21.0	26223
DEKALB	DK683	185	20.6	23348
MYCOGEN	8240	185	19.4	25004
SOUTHERN STATES	SS883A	180	21.4	26949
PIONEER	3140	177	20.3	25091
NORTHRUP KING	N8656	175	20.9	23435
BECK'S	7101	171	19.1	25091
SOUTHERN STATES	SS812	169	19.3	26659
NORTHRUP KING	N8020	169	18.8	23580
SOUTHERN STATES	XP54003	168	19.1	23958
TERRA INTERNAT'L	TR1167	166	19.4	23871
DYNA-GRO	5565	166	18.0	25526
HY-PERFORMER	HS9843	165	18.9	25700
HY-PERFORMER	HS9704	165	18.8	24481
SOUTHERN STATES	SS793	163	19.0	24306

Medium Maturity (continued)		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
HY-PERFORMER	HY9610	163	18.3	25352
CARGILL	8327	163	18.3	22419
DEKALB	DK678	162	19.0	24917
DOEBLERS	82XP	162	19.1	26223
LYNKS	2807	162	17.4	24568
ASGROW	RX770	162	18.3	26920
AUGUSTA	A617	160	17.5	23697
HYTEST	HT7728	159	18.1	25613
BECK'S	68	158	18.3	24045
AUGUSTA	A614	157	16.8	25671
WILSON	DEMAND 118	154	22.9	25091
WILSON	DEMAND 119	152	21.5	24394
DOEBLERS	737XP	150	17.1	24045
AUGUSTA	A616	150	17.5	23261
DOWELANCO	XHP18069	149	20.6	25265
HY-PERFORMER	HS9848	148	18.2	22303
DOWELANCO	XHP18071	146	20.5	24132
DOWELANCO	XHP18070	141	21.7	20096
Maturity Average		166	19.3	24746
LSD		18	1.2	3099

Mid-Full Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
SOUTHERN STATES	SS943	203	23.0	25700
PIONEER	3165	198	22.5	25004
DEKALB	DK743	192	21.0	23464
NORTHRUP KING	N8727	189	22.2	26572
ASGROW	RX919	187	21.3	24132
NORTHRUP KING	N8811	185	22.3	25671
DOEBLERS	86XA2	173	21.3	25352
PIONEER	3156	172	19.9	25962
ASGROW	RX897	171	19.4	25178
DOEBLERS	777XP	167	17.5	25962
TERRA INTERNAT'L	TR702E	167	20.6	23871
DYNA-GRO	5516	164	18.6	26833
Maturity Average		181	20.8	25308
LSD		20	1.7	2922
Location Average		164	18.9	24873

**Two Year Averages
MT HOLLY, VA 1993/1994 (Irrigated)**

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
DEKALB	DK646	205	20.9	26876
PIONEER	3245	194	20.8	25047
SOUTHERN STATES	SS742A	191	19.7	27138
PIONEER	3525	189	19.2	27225
AUGUSTA	A613aa	188	21.5	26746
DEKALB	DK623	186	20.7	26209
SOUTHERN STATES	SS682	183	19.6	27486
NORTHRUP KING	N7989	183	19.4	26092
AUGUSTA	A513	181	21.1	25700
AUGUSTA	A505	180	19.7	25308
HY-PERFORMER	HS9502	178	19.5	26615
PIONEER	3394	177	18.8	26920
DOEBLERS	73XP	174	19.8	27312
BECK'S	57	170	18.5	26093
BECK'S	54XA	164	19.4	25308
Maturity Average		183	19.9	26405
LSD (0.05)		17	1.0	1794

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
PIONEER	3163	211	22.4	27399
MYCOGEN	8240	192	21.1	26441
PIONEER	3140	191	22.5	25396
SOUTHERN STATES	SS793	188	21.3	26179
AUGUSTA	A616	188	20.2	25788
HY-PERFORMER	HS9704	188	21.2	26136
CARGILL	8327	187	20.1	25367
AUGUSTA	A614	186	19.4	26993
DEKALB	DK678	185	21.0	26354
BECK'S	68	185	20.6	25483
AUGUSTA	A617	184	19.7	25657
HY-PERFORMER	HS9843	180	21.3	26876
DOEBLERS	82XP	180	20.8	26615
HY-PERFORMER	HS9848	178	19.9	24960
SOUTHERN STATES	SS812	178	21.1	27617
ASGROW	RX770	176	20.0	27486
HYTEST	HT7728	173	19.8	25787
HY-PERFORMER	HY9610	170	21.1	25918
WILSON	DEMAND 119	153	23.1	25613
Maturity Average		183	20.9	26214
LSD (0.05)		14	1.0	1475

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
PIONEER	3165	210	24.6	26572
DEKALB	DK743	208	23.1	25497
NORTHRUP KING	N8727	207	23.4	27443
PIONEER	3156	196	23.0	26702
NORTHRUP KING	N8811	195	24.2	26208
DOEBLERS	86XA2	188	23.2	26833
Maturity Average		201	23.6	26543
LSD (0.05)		16	1.2	1478
Location Average		185	20.9	26335

**Three Year Averages
MT HOLLY, VA 1992/1994 (Irrigated)**

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
DEKALB	DK646	210	21.6	26223
PIONEER	3245	207	21.4	25265
NORTHRUP KING	N7989	200	20.8	26173
PIONEER	3394	195	19.6	26601
PIONEER	3525	192	19.4	27073
SOUTHERN STATES	SS682	191	20.4	26949
DOEBLERS	73XP	189	20.9	27501
AUGUSTA	A505	188	20.2	25294
HY-PERFORMER	HS9502	188	20.4	26804
AUGUSTA	A513	182	21.9	25991
BECK'S	54XA	182	20.0	25310
Maturity Average		193	20.6	26289
LSD (0.05)		13	0.8	1463

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
PIONEER	3163	220	23.7	26455
PIONEER	3140	200	22.9	25408
BECK'S	68	200	21.6	26223
AUGUSTA	A616	198	21.1	25962
SOUTHERN STATES	SS793	197	22.2	26185
HY-PERFORMER	HS9843	194	21.9	26577
AUGUSTA	A617	190	20.9	25584
HY-PERFORMER	HS9704	189	21.8	25535
DOEBLERS	82XP	187	21.7	26775
SOUTHERN STATES	SS812	186	21.8	27285
Maturity Average		196	22.0	26199
LSD (0.05)		11	0.9	1518

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
NORTHRUP KING	N8727	215	24.0	27704
PIONEER	3165	209	25.1	26179
NORTHRUP KING	N8811	204	24.6	25400
PIONEER	3156	203	23.8	26920
Maturity Average		208	24.4	26551
LSD (0.05)		17	1.1	1867
Location Average		197	21.7	26295

1994 HYBRID CORN TEST

PAINTER, VA 1994

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A*	Days To Silk
AUGUSTA	A513	80	17.0	16030	83
SOUTHERN STATES	SS742A	79	16.6	20038	88
PIONEER	3525	78	15.3	17598	79
PIONEER	3394	77	15.4	18121	80
DOWELANCO	XHP17194	69	16.5	16379	84
DOWELANCO	XHP17193	57	15.8	16379	80
PIONEER	3489	52	14.9	14113	80
Maturity Average		70	15.9	16951	82
LSD		20	0.8	2792	2

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	Days To Silk
HYTEST	HT7748	90	16.6	20561	86
HY-PERFORMER	HS9843	83	16.1	20909	88
SOUTHERN STATES	XP54003	81	16.7	21258	85
SOUTHERN STATES	SS793	79	16.8	18818	82
WILSON	DEMAND 118	77	18.9	18121	87
HY-PERFORMER	HS9704	70	16.9	18644	84
PIONEER	3163	68	18.3	20735	85
HY-PERFORMER	HS9905	68	17.9	17424	87
HY-PERFORMER	HS9773	67	17.3	17947	85
WILSON	DEMAND 119	66	19.1	16727	87
DOWELANCO	XHP18070	64	19.5	19689	90
DOWELANCO	XHP18069	60	18.3	19167	91
DOWELANCO	XHP18071	58	18.2	16553	87
PIONEER	3293	56	17.4	21258	81
Maturity Average		70	17.7	19129	86
LSD		14	1.1	2247	3

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	Days To Silk
HY-PERFORMER	HS9944	96	17.9	21258	88
Location Average		71	17.1	18533	85

* These plots were planted no-till into a rye cover crop on April 18, 1994. The cold weather reduced stands of some hybrids more than others.

Two Year Averages PAINTER, VA 1993/1994

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	Days To Silk
AUGUSTA	A513	82	16.3	18034	77
SOUTHERN STATES	SS742A	70	15.8	18992	82
Maturity Average		76	16.1	18513	80
LSD (0.05)		14	0.6	2543	2

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	Days To Silk
SOUTHERN STATES	SS793	82	16.2	19341	77
WILSON	DEMAND 119	72	18.6	18557	81
HY-PERFORMER	HS9843	72	15.6	20212	82
HYTEST	HT7748	72	16.2	19515	82
HY-PERFORMER	HS9704	70	15.9	18905	78
HY-PERFORMER	HS9773	68	16.3	17773	80
Maturity Average		73	16.5	19050	80
LSD (0.05)		9	0.7	2127	2
Location Average		73	16.4	18916	80

Three Year Averages PAINTER, VA 1992/1994

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	Days To Silk
AUGUSTA	A513	95	18.9	17773	77

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	Days To Silk
HY-PERFORMER	HS9773	98	19.9	18586	80
HY-PERFORMER	HS9704	97	18.9	19108	78
HY-PERFORMER	HS9843	97	18.7	20212	82
SOUTHERN STATES	SS793	94	19.0	19283	77
HYTEST	HT7748	93	19.0	19457	82
Maturity Average		96	19.1	19329	80
LSD (0.05)		8	0.6	1762	2
Location Average		96	19.1	19070	79

1994 HYBRID CORN TEST

BLACKSTONE, VA 1994 Population - 18,000 plants/acre

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	DaysTo Silk	EarHt in
SOUTHERN STATES	SS742A	129	18.2	80	40
PIONEER	3245	128	17.4	79	41
TERRA INTERNAT'L	TR1101	116	17.4	76	38
PIONEER	3394	114	16.9	75	39
PIONEER	3525	108	16.0	74	42
PIONEER	3489	96	16.8	74	32
DOWELANCO	XHP17194	91	18.8	76	33
DOWELANCO	XHP17193	84	17.2	74	30
Maturity Average		108	17.3	76	37
LSD		22	1.6	2	2

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	DaysTo Silk	EarHt in
AGRATECH	737	154	19.2	74	48
TERRA INTERNAT'L	TR1185	154	21.7	77	50
PIONEER	X1183C	154	18.5	77	51
SOUTHERN STATES	XP54003	153	19.5	76	47
CARGILL	8527A	152	19.0	77	49
PIONEER	3163	147	19.8	76	48
SOUTHERN STATES	SS883A	138	22.0	76	46
HYTEST	HT7728	137	18.8	78	47
AGRATECH	810	132	19.5	78	44
SOUTHERN STATES	SS793	131	20.8	75	48
CAVERNDALE FARMS	CF9314	128	18.9	78	47
TERRA INTERNAT'L	TR1167	127	19.1	78	50
PIONEER	3140	126	19.9	78	50
CAVERNDALE FARMS	CF953	125	19.8	76	42
DOWELANCO	XHP18071	111	21.7	78	44
DOWELANCO	XHP18070	111	22.3	80	44
DOWELANCO	XHP18069	99	21.0	79	40
Maturity Average		134	20.1	77	47
LSD		26	1.3	2	3

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	DaysTo Silk	EarHt in
PIONEER	3154	150	21.6	78	49
SOUTHERN STATES	SS943	148	23.1	76	46
MYCOGEN	9220	142	22.8	79	48
CAVERNDALE FARMS	CF9418	140	22.6	77	49
PIONEER	3156	138	20.6	78	49
PIONEER	3165	131	23.2	81	48

Mid-Full Maturity (continued)		Yield	Moist	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%	Silk	in
TERRA INTERNAT'L	TR702E	117	21.5	80	45
Maturity Average		138	22.2	78	48
LSD		19	1.4	2	3
Location Average		128	19.9	77	44

Two Year Averages
BLACKSTONE, VA 1993/1994 Population - 18,000 plants/acre

Early Maturity		Yield	Moist	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%	Silk	In
PIONEER	3394	98	15.6	71	38
SOUTHERN STATES	SS742A	94	16.7	75	39
PIONEER	3525	93	15.3	70	41
PIONEER	3245	89	15.9	74	37
Maturity Average		93	15.9	72	39
LSD (0.05)		23	0.9	1	1

Medium Maturity		Yield	Moist	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%	Silk	In
SOUTHERN STATES	SS793	99	19.1	72	41
PIONEER	3140	97	18.7	74	44
PIONEER	3163	96	18.1	74	40
AGRATECH	810	90	18.2	75	38
HYTEST	HT7728	90	17.8	75	42
Maturity Average		94	18.4	74	41
LSD (0.05)		15	0.9	1	2

Mid-Full Maturity		Yield	Moist	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%	Silk	In
PIONEER	3154	109	19.9	74	43
MYCOGEN	9220	98	20.9	74	43
SOUTHERN STATES	SS943	97	20.8	73	39
PIONEER	3156	95	19.6	74	45
PIONEER	3165	90	21.2	77	43
Maturity Average		98	20.5	74	43
LSD (0.05)		13	0.9	1	2
Location Average		95	18.4	74	41

Three Year Averages

BLACKSTONE, VA 1992/1994 Population - 18,000 plants/acre

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	DaysTo Silk	EarHt In
PIONEER	3394	123	14.8	75	41
PIONEER	3245	116	15.3	79	40
Maturity Average		119	15.1	77	40
LSD (0.05)		19	0.9	1	1

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	DaysTo Silk	EarHt In
PIONEER	3163	131	16.9	78	43
SOUTHERN STATES	SS793	119	17.4	76	43
PIONEER	3140	116	17.3	78	48
HYTEST	HT7728	115	16.7	79	44
Maturity Average		120	17.1	78	45
LSD (0.05)		11	0.7	1	2

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	DaysTo Silk	EarHt In
PIONEER	3154	134	18.4	77	46
PIONEER	3165	127	19.6	81	47
MYCOGEN	9220	124	19.4	79	46
PIONEER	3156	121	17.9	78	48
Maturity Average		126	18.8	79	47
LSD (0.05)		10	0.7	1	1
Location Average		123	17.4	78	44

1994 HYBRID CORN TEST

BLACKSTONE, VA 1994 Population - 22,000 plants/acre

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	DaysTo Silk	EarHt in
PIONEER	3245	159	18.0	79	40
SOUTHERN STATES	SS742A	139	19.6	82	42
TERRA INTERNAT'L	TR1101	137	18.8	77	39
PIONEER	3525	137	16.0	75	42
DOWELANCO	XHP17194	120	18.7	75	36
PIONEER	3394	117	17.9	76	41
PIONEER	3489	113	16.7	74	32
DOWELANCO	XHP17193	108	17.2	74	31
Maturity Average		128	17.9	76	38
LSD		39	2.4	2	2

1994 HYBRID CORN TEST

ORANGE, VA 1994

Early Maturity		Yield	Moist	Plants/A	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	in
SOUTHERN STATES	SS742A	163	16.1	21780	82	34
MYCOGEN	7660	160	15.9	22070	82	36
AUGUSTA	A613aa	153	16.3	21635	78	34
PIONEER	3245	151	17.2	21199	77	28
AUGUSTA	A513	147	16.0	21345	76	34
HYTEST	BH4776	146	15.3	21925	76	35
DOEBLERS	69XP	145	16.5	22070	78	30
FUNK'S G	4554	145	15.4	22070	78	31
CARGILL	7897	144	17.0	21925	80	33
NORTHRUP KING	N7989	140	17.8	20763	82	34
HYTEST	BHX4644	139	15.0	22070	76	28
NORTHRUP KING	N6330	138	15.9	22070	76	29
DOEBLERS	73XP	137	15.6	20909	76	31
PIONEER	3525	136	14.7	21925	75	33
PIONEER	3394	135	15.3	21925	75	29
PIONEER	3241	133	17.8	21780	76	35
AUGUSTA	A505	127	16.1	21489	76	29
FUNK'S G	4473	119	15.4	18586	77	30
CARGILL	7997	119	16.1	21925	75	30
DOEBLERS	606XP	118	14.7	21925	76	31
PIONEER	3489	116	15.4	21344	73	23
DOWELANCO	XHP17194	103	15.9	20764	77	25
DOWELANCO	XHP17193	87	15.4	20909	74	22
STINE	1080	79	16.5	20618	74	25

Maturity Average		132	16.0	21459	77	30
LSD		15	0.9	1463	1	2

Medium Maturity		Yield	Moist	Plants/A	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	in
DOEBLERS	82XP	168	16.0	21925	83	36
SOUTHERN STATES	SS827	168	18.0	22070	80	32
PIONEER	3163	168	17.2	22070	81	30
SOUTHERN STATES	SS812	167	17.0	22070	82	36
PIONEER	X1183C	166	17.2	22070	82	35
CARGILL	9027	164	18.4	22070	79	32
SOUTHERN STATES	SS883A	163	19.6	22070	81	30
CARGILL	8327	160	17.4	22070	83	34
DYNA-GRO	5565	159	16.5	22070	82	35
BECK'S	68	153	16.4	21925	79	28
DYNA-GRO	5564	153	15.8	21925	78	32
NORTHRUP KING	N8656	153	17.7	21780	83	34
HY-PERFORMER	HS9704	152	16.1	22070	78	33
BECK'S	7101	152	16.4	22070	78	32
NORTHRUP KING	N8020	152	16.7	21925	81	33
MYCOGEN	8240	150	16.6	21925	81	36

Medium Maturity (continued)		Yield	Moist	Plants/A	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	in
HY-PERFORMER	HS9843	150	17.5	22070	82	35
BECK'S	EX1354	149	17.8	22070	81	31
AUGUSTA	A614	149	15.7	21925	78	32
FUNK'S G	4584	148	16.8	21925	81	30
PIONEER	3140	144	16.9	22070	80	36
DEKALB	DK683	143	16.2	21683	81	31
LYNKS	2807	142	16.1	21780	80	29
ASGROW	RX770	141	15.8	21925	76	28
DOEBLERS	737XP	140	16.2	22070	78	30
FUNK'S G	4672	138	16.0	21925	81	32
STINE	1133	131	14.9	22070	75	28
WILSON	DEMAND 119	125	18.9	21344	83	28
WILSON	DEMAND 118	123	19.7	21490	85	29
DOWELANCO	XHP18070	123	19.2	21490	85	31
DOWELANCO	XHP18071	120	18.9	21490	84	29
DOWELANCO	XHP18069	118	17.8	21635	85	25
Maturity Average		148	17.1	21908	81	31
LSD		14	1.2	6.3	2	2
Mid-Full Maturity		Yield	Moist	Plants/A	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	in
PIONEER	3085	187	17.9	22070	82	36
BECK'S	8808	173	17.6	21780	82	35
NORTHRUP KING	N8727	171	19.8	21780	81	30
SOUTHERN STATES	SS943	170	20.2	21925	82	32
PIONEER	3165	164	19.0	21490	84	34
PIONEER	3154	163	17.1	22070	79	35
LONGEST	L20	163	17.4	22070	82	35
LYNKS	2868	163	16.8	22070	81	35
ASGROW	RX897	157	17.1	21780	82	37
NORTHRUP KING	N8811	152	19.1	22070	81	30
FUNK'S G	4820	149	20.1	22070	83	34
DOEBLERS	86XA2	148	19.8	22070	81	30
STINE	1145	145	16.0	21780	75	32
PIONEER	3156	144	17.1	21344	77	35
ASGROW	RX919	144	18.3	20473	82	37
Maturity Average		159	18.2	21789	81	34
LSD		12	1.1	901	1	2
Location Average		145	17.0	21731	79	32

Mid-Full Maturity (continued)		Yield	Moist	Plants/A	Days To
Brand/Company	Hybrid	bu/A	%		Silk
LYNKS	2868	149	16.2	22651	76
PIONEER	3156	144	17.1	22288	74
NORTHRUP KING	N8811	136	18.2	22433	75
ASGROW	RX919	135	17.7	21853	78
ASGROW	RX897	124	16.4	22506	77
Maturity Average		146	17.9	22448	76
LSD (0.05)		15	0.8	558	1
Location Average		134	16.6	22489	75

**Three Year Averages
ORANGE, VA 1992/1994**

Early Maturity		Yield	Moist	Plants/A	Days To
Brand/Company	Hybrid	bu/A	%		Silk
AUGUSTA	A513	145	16.4	22216	74
PIONEER	3245	145	17.0	22167	75
DOEBLERS	69XP	143	16.3	22457	75
NORTHRUP KING	N7989	137	16.9	22022	78
CARGILL	7997	135	16.7	22409	72
PIONEER	3241	134	17.6	22361	73
AUGUSTA	A505	132	16.2	22264	72
PIONEER	3394	131	15.9	22409	74
DOEBLERS	73XP	130	16.2	22070	73
Maturity Average		137	16.6	22264	74
LSD (0.05)		9	0.5	532	1

Medium Maturity		Yield	Moist	Plants/A	Days To
Brand/Company	Hybrid	bu/A	%		Silk
PIONEER	3163	154	18.5	22457	77
SOUTHERN STATES	SS812	150	17.3	22457	77
PIONEER	3140	147	17.7	22457	77
DOEBLERS	82XP	145	16.7	22409	78
CARGILL	9027	142	18.7	22457	77
Maturity Average		147	17.8	22448	77
LSD (0.05)		12	0.7	62	1

Mid-Full Maturity		Yield	Moist	Plants/A	Days To
Brand/Company	Hybrid	bu/A	%		Silk
SOUTHERN STATES	SS943	163	21.1	22409	77
PIONEER	3165	161	20.6	22264	80
NORTHRUP KING	N8727	161	19.9	22361	77
PIONEER	3154	159	18.8	22457	77

Mid-Full Maturity (continued)		Yield	Moist	Plants/A	Days To
Brand/Company	Hybrid	bu/A	%		Silk
PIONEER	3085	157	20.9	22457	80
PIONEER	3156	157	18.1	22215	75
LYNKS	2868	153	16.9	22457	77
ASGROW	RX919	142	19.0	21925	79
ASGROW	RX897	137	17.1	22361	78
NORTHRUP KING	N8811	137	19.3	22312	77
Maturity Average		153	19.2	22322	78
LSD (0.05)		11	0.7	370	1
Location Average		146	17.9	22326	76

1994 HYBRID CORN TEST

SMYTH, VA 1994

Early Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
SOUTHERN STATES	SS742A	142	23.1	22826
TERRA INT'L	TR1101	127	21.5	23174
NORTHRUP KING	N7989	124	24.8	21867
PIONEER	3245	108	22.3	22390
PIONEER	3525	107	18.9	22216
PIONEER	3241	107	23.1	21780
DOWELANCO	XHP17194	96	22.9	21693
PIONEER	3489	68	20.8	20996
DOWELANCO	XHP17193	60	20.8	20735
Maturity Average		104	22.0	21964
LSD		22	1.6	1765

Medium Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
SOUTHERN STATES	SS883A	145	25.6	23087
SOUTHERN STATES	SS827	144	24.7	22042
BECK'S	EX1354	143	23.3	22564
CAVERNDALE FARMS	CF9314	143	22.2	22129
PIONEER	3163	133	23.5	22651
NORTHRUP KING	N8020	129	21.9	21780
PIONEER	X1183C	129	22.9	22390
TERRA INT'L	TR1167	126	22.4	22825
NORTHRUP KING	N8656	125	26.3	23348
PIONEER	3140	124	22.6	22390
CAVERNDALE FARMS	CF953	124	23.6	22042
TERRA INT'L	TR1185	123	25.2	21954
BECK'S	81MVP	123	24.4	22477
BECK'S	68	123	22.8	22826

Medium Maturity (continued)		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
DOWELANCO	XHP18071	120	27.7	21955
DOWELANCO	XHP18069	117	25.5	22129
DEKALB	DK683	112	25.1	22041
SOUTHERN STATES	SS812	108	23.3	22477
DOWELANCO	XHP18070	102	27.5	21170
Maturity Average		126	24.2	22330
LSD		26	1.7	1385

Mid-Full Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
PIONEER	3154	164	23.7	22651
HYTEST	BH4924	146	27.6	22129
PIONEER	3085	137	26.9	23174
SOUTHERN STATES	SS943	136	29.2	22477
DEKALB	DK743	136	28.0	21170
DEKALB	DK714	134	23.9	22303
NORTHRUP KING	N8811	126	27.9	21954
TERRA INT'L	TR702E	124	26.9	22651
NORTHRUP KING	N8727	124	25.8	23522
PIONEER	3156	124	24.6	21345
BECK'S	8808	123	22.1	21693
CAVERNDALE FARMS	CF9418	121	23.8	21083
Maturity Average		133	25.9	22179
LSD		20	2.0	1658
Location Average		123	24.2	22203

**Two Year Averages
SMYTH, VA 1993/1994**

Early Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
SOUTHERN STATES	SS742A	120	24.1	21301
NORTHRUP KING	N7989	112	24.6	20081
PIONEER	3245	104	23.4	20778
PIONEER	3525	99	19.2	21388
PIONEER	3241	98	22.9	20952
Maturity Average		106	22.8	20900
LSD (0.05)		12	1.0	1817

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
SOUTHERN STATES	SS883A	132	26.4	20604
PIONEER	3163	124	24.4	20255
PIONEER	3140	117	24.0	20081
SOUTHERN STATES	SS812	113	24.1	21911
BECK'S	68	112	24.1	20735
BECK'S	81MVP	112	25.1	20343
Maturity Average		118	24.7	20655
LSD (0.05)		19	1.0	1443

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
PIONEER	3154	141	25.4	21170
SOUTHERN STATES	SS943	128	28.8	20473
PIONEER	3085	120	28.4	21606
PIONEER	3156	115	25.4	19820
NORTHRUP KING	N8727	114	26.4	21649
NORTHRUP KING	N8811	113	27.4	20691
Maturity Average		122	27.0	20902
LSD (0.05)		15	1.2	1458
Location Average		116	25.0	20814

Three Year Averages SMYTH, VA 1992/1994

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
NORTHRUP KING	N7989	119	25.9	20706
PIONEER	3245	113	24.1	21344
PIONEER	3241	108	23.5	21693
Maturity Average		113	24.5	21248
LSD (0.05)		10	1.0	1373

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
PIONEER	3163	138	26.1	21083
PIONEER	3140	129	25.7	20996
SOUTHERN STATES	SS812	124	25.1	22332
BECK'S	81MVP	119	26.4	21025
Maturity Average		128	25.8	21359
LSD (0.05)		16	0.9	1171

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
PIONEER	3154	141	27.3	21809
SOUTHERN STATES	SS943	137	30.9	20822
PIONEER	3085	131	30.8	22187
NORTHRUP KING	N8811	125	29.2	21374
PIONEER	3156	123	26.5	20560
NORTHRUP KING	N8727	118	28.4	21925
Maturity Average		129	28.9	21446
LSD (0.05)		14	0.9	1153
Location Average		125	26.9	21373

1994 HYBRID CORN TEST

BLACKSBURG, VA 1994

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	DaysTo Silk	EarHt in
DEKALB	DK646	222	22.4	24307	62	39
SOUTHERN STATES	SS742A	198	24.3	23958	66	41
BECK'S	5405	197	19.8	23348	61	40
DOEBLERS	69XP	196	20.6	23610	62	41
DOWELANCO	XHP17194	196	22.9	23523	62	36
BECK'S	54XA	190	21.1	22651	61	41
TERRA INT'L	TR1101	186	21.9	23958	63	38
DOEBLERS	73XP	185	21.3	23174	63	39
AUGUSTA	A513	182	22.9	21954	62	45
PIONEER	3394	181	18.8	24045	62	40
CAVERNDALE FARMS	CF790	180	21.3	23697	64	38
PIONEER	3241	180	22.1	24655	63	44
AUGUSTA	A505	179	21.0	22913	62	37
SOUTHERN STATES	SS682	174	21.7	23784	63	36
PIONEER	3525	166	18.3	23958	61	41
PIONEER	3489	160	18.2	22826	61	30
DOWELANCO	XHP17193	154	20.4	22913	61	29
Maturity Average		184	21.1	23487	62	38
LSD		28	2.0	1170	2	5

Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	DaysTo Silk	EarHt in
DOEBLERS	777XP	217	21.6	23871	62	43
CAVERNDALE FARMS	CF9314	215	23.5	23610	65	45
MYCOGEN	8240	212	22.9	23697	63	49
SOUTHERN STATES	SS827	210	24.5	24307	63	42
PIONEER	3163	206	24.2	24045	65	43
SOUTHERN STATES	SS883A	206	25.9	24568	64	44

Medium Maturity (continued)		Yield	Moist	Plants/A	Days To	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	in
SOUTHERN STATES	SS812	202	22.3	23871	63	49
PIONEER	X1183C	201	24.4	23436	65	53
BECK'S	68	200	23.1	23784	62	39
DOEBLERS	82XP	196	23.2	23610	64	49
BECK'S	81MVP	191	24.5	24481	67	40
PIONEER	3140	187	22.7	23000	65	46
DEKALB	DK683	186	23.4	24046	66	42
HY-PERFORMER	HS9704	185	22.9	24394	63	44
TERRA INT'L	TR1167	182	22.6	23523	64	47
HY-PERFORMER	HS9843	179	23.7	23436	64	50
CARGILL	8327	179	25.0	23523	66	44
CAVERNDALE FARMS	CF953	179	25.1	21780	65	39
CARGILL	8527A	178	24.3	24742	67	43
LONGEST	L12	177	22.8	22825	65	41
DOEBLERS	737XP	175	21.3	23000	62	43
BECK'S	7101	169	22.8	22564	62	42
DOWELANCO	XHP18070	168	26.7	23436	69	41
DOWELANCO	XHP18071	168	26.4	22651	66	38
DEKALB	DK678	165	22.2	22303	64	36
TERRA INT'L	TR1185	155	24.9	23436	68	46
DOWELANCO	XHP18069	153	27.5	23087	70	36
HY-PERFORMER	HS9773	151	20.7	22041	64	45

Maturity Average		185	23.7	23467	65	43
LSD		33	2.1	1301	2	6

Mid-Full Maturity		Yield	Moist	Plants/A	Days To	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	in
DEKALB	DK743	235	25.9	24394	64	54
SOUTHERN STATES	SS943	229	28.5	24220	63	50
DEKALB	DK714	217	23.9	24568	61	51
PIONEER	3154	215	26.1	24307	63	52
HYTEST	BH4924	211	26.7	22477	62	46
TERRA INT'L	TR702E	209	26.1	24481	65	45
BECK'S	8808	199	23.8	23610	66	51
PIONEER	3156	191	25.4	23174	63	50
CAVERNDALE FARMS	CF9418	183	23.6	23958	65	55

Maturity Average		210	25.6	23910	64	50
LSD		23	1.5	1547	1	6

Location Average		189	23.2	23547	64	43
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**Two Year Averages
BLACKSBURG, VA 1993/1994**

Early Maturity		Yield	Moist	Plants/A	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	In
DEKALB	DK646	177	23.5	23523	69	38
SOUTHERN STATES	SS742A	170	26.6	22913	72	38
DOEBLERS	73XP	165	22.5	22695	69	38
SOUTHERN STATES	SS682	164	23.2	23261	69	38
PIONEER	3394	163	19.9	23958	68	39
DOEBLERS	69XP	162	22.8	22826	70	39
BECK'S	54XA	162	22.4	22172	67	39
CAVERNDALE FARMS	CF790	161	23.2	21954	70	39
AUGUSTA	A505	157	22.5	21824	68	37
PIONEER	3241	157	23.3	23827	69	44
PIONEER	3525	152	19.2	23871	67	42
AUGUSTA	A513	151	24.5	21649	70	43

Maturity Average		162	22.8	22873	69	39
LSD (0.05)		25	1.2	1293	1	4

Medium Maturity		Yield	Moist	Plants/A	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	In
SOUTHERN STATES	SS812	180	24.2	22521	70	48
SOUTHERN STATES	SS883A	175	27.8	22564	70	42
PIONEER	3140	175	24.7	22564	71	47
MYCOGEN	8240	173	25.0	22259	71	47
HY-PERFORMER	HS9843	167	25.0	23131	71	49
BECK'S	68	166	24.1	23043	69	38
BECK'S	81MVP	166	26.0	23000	72	41
PIONEER	3163	163	26.8	22695	72	39
DOEBLERS	82XP	162	24.9	23043	71	46
CAVERNDALE FARMS	CF953	161	25.5	21737	71	37
HY-PERFORMER	HS9704	156	24.6	23392	70	43
DEKALB	DK678	154	23.4	22129	70	37
CARGILL	8327	149	25.9	23000	72	43
HY-PERFORMER	HS9773	138	24.3	21780	71	45

Maturity Average		163	25.1	22633	71	43
LSD (0.05)		27	1.6	1155	2	5

Mid-Full Maturity		Yield	Moist	Plants/A	DaysTo	EarHt
Brand/Company	Hybrid	bu/A	%		Silk	In
DEKALB	DK743	196	28.2	23174	70	51
SOUTHERN STATES	SS943	191	29.2	23130	70	46
PIONEER	3154	189	27.1	23784	70	49
PIONEER	3156	175	27.3	22259	70	48

Maturity Average		187	27.9	23087	70	48
LSD (0.05)		21	1.2	912	1	3

Location Average		166	24.6	22789	70	42
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**Three Year Averages
BLACKSBURG, VA 1992/1994**

Early Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	DaysTo Silk	EarHt In
DEKALB	DK646	185	24.8	22913	71	40
PIONEER	3394	168	20.2	23261	70	41
DOEBLERS	69XP	167	23.4	22767	72	40
BECK'S	54XA	165	22.8	21809	69	41
AUGUSTA	A505	165	22.8	21025	70	40
DOEBLERS	73XP	165	23.2	22187	71	40
PIONEER	3241	164	24.1	23000	71	45
AUGUSTA	A513	161	25.3	21606	71	45
PIONEER	3525	154	19.3	23261	69	44
Maturity Average		166	22.9	22425	71	42
LSD (0.05)		18	0.9	1054	1	3
Medium Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	DaysTo Silk	EarHt In
SOUTHERN STATES	SS812	179	25.1	22448	73	48
PIONEER	3163	176	27.6	22390	74	41
BECK'S	81MVP	175	27.3	22448	74	43
BECK'S	68	175	26.1	23261	71	38
PIONEER	3140	173	26.3	22012	73	49
HY-PERFORMER	HS9843	168	25.4	22477	73	50
DOEBLERS	82XP	164	25.4	22390	74	48
HY-PERFORMER	HS9704	162	25.8	22942	72	45
HY-PERFORMER	HS9773	148	24.8	21577	73	48
Maturity Average		169	26.0	22438	73	45
LSD (0.05)		19	1.2	958	1	4
Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A	DaysTo Silk	EarHt In
DEKALB	DK743	196	30.0	22448	72	51
PIONEER	3154	187	29.1	22826	73	50
PIONEER	3156	169	28.0	21548	72	49
Maturity Average		184	29.0	22274	72	50
LSD (0.05)		16	1.2	996	1	3
Location Average		170	25.1	22409	72	44

1994 HYBRID CORN TEST

AUGUSTA, VA 1994

Early Maturity		Yield	Moist	Plants/A*
Brand/Company	Hybrid	bu/A	%	
SOUTHERN STATES	SS682	207	23.6	20560
NORTHRUP KING	N7989	201	24.8	18934
DEKALB	DK646	196	23.6	17889
HYTEST	BHX4644	181	20.7	19515
PIONEER	3245	180	23.3	16828
PIONEER	3241	177	23.1	18702
FUNK'S G	4554	177	21.7	17250
SOUTHERN STATES	SS742A	173	24.1	16182
DOEBLERS	73XP	166	22.4	16959
FUNK'S G	4473	165	20.2	17772
DOEBLERS	69XP	163	23.7	16379
HYTEST	BH4776	159	20.3	16462
PIONEER	3525	153	18.9	19283
STINE	1080	152	20.2	17424
NORTHRUP KING	N6330	149	20.5	15449
PIONEER	3394	146	19.9	15289
DOEBLERS	66XP	141	20.3	14868
DOEBLERS	606XP	129	20.3	15333
DOWELANCO	XHP17193	127	21.3	16204
DOWELANCO	XHP17194	119	24.8	12894
Maturity Average		163	21.9	17009
LSD		30	1.8	2323

Medium Maturity		Yield	Moist	Plants/A
Brand/Company	Hybrid	bu/A	%	
NORTHRUP KING	N8656	214	27.6	18644
PIONEER	3140	213	24.2	17772
LYNKS	2807	212	21.5	19863
PIONEER	X1183C	209	23.2	19282
FUNK'S G	4584	197	23.8	18469
PIONEER	3163	193	27.6	16185
SOUTHERN STATES	SS883A	190	30.5	19399
FUNK'S G	4672	186	27.0	18470
DEKALB	DK683	181	28.4	17313
DEKALB	DK678	178	24.0	17308
HY-PERFORMER	HS9704	171	23.8	20676
DYNA-GRO	5565	171	26.4	16959
SOUTHERN STATES	SS827	170	27.2	15682
DOWELANCO	XHP18071	170	30.8	17946
HY-PERFORMER	HS9843	166	24.7	16495
DOEBLERS	82XP	163	26.4	15217
NORTHRUP KING	N8020	156	23.4	16224
STINE	1133	155	19.7	16030
DOEBLERS	75X2	155	25.5	14881
SOUTHERN STATES	SS812	153	23.8	16030
DOWELANCO	XHP18069	147	26.4	15798
DOWELANCO	XHP18070	141	28.1	14520
Maturity Average		177	25.6	17235
LSD		24	2.7	2725

Mid-Full Maturity Brand/Company	Hybrid	Yield bu/A	Moist %	Plants/A
NORTHRUP KING	N8727	211	26.5	18884
SOUTHERN STATES	SS943	203	32.1	19980
PIONEER	3154	192	25.4	17968
FUNK'S G	4820	184	29.3	19863
PIONEER	3156	174	27.4	15729
PIONEER	3085	173	32.1	15565
DYNA-GRO	5516	170	24.3	16096
LYNKS	2868	166	24.1	16960
DOEBLERS	86XA2	164	27.8	17772
NORTHRUP KING	N8811	162	29.7	15362
STINE	1145	157	23.0	15713
DEKALB	DK743	136	28.1	12894
Maturity Average		175	27.5	16899
LSD		32	3.7	3580
Location Average		171	24.7	17076

* Plant populations were reduced at this location due to the cold conditions for several weeks after planting. Note the high yields at 15-20,000 plants/acre.

Table 1. Responses of corn hybrids to MDM virus inoculation, Accent®, and Beacon® at Blacksburg, VA 1994

BRAND	HYBRID	YIELD bu/acre			MDM	%H2O CONTROL	MDMV (1-9)
		2X ACCENT	2X BEACON	CONTROL			
AGRATECH	737	193	152	164	143	24.2	5.75 ab
MYCOGEN	8460	*155	*147	183	*159	22.5	1.00 i
CARGILL	8527A	163	160	159	153	24.6	1.25 i
DOEBLERS	854V2	172	157	179	155	25.5	5.13 bc
BECK'S	87MDM	148	153	170	149	30.7	5.00 c
CARGILL	8936	174	152	160	159	27.1	4.00 de
MYCOGEN	9220	154	164	165	160	24.8	1.00 i
HYTEST	BH4924	188	164	167	191	27.0	3.38 ef
CAVERNDALE FARMS	CF8905	134	*94	136	116	37.2	3.50 e
SUSCEPTIBLE	CHECK	155	143	151	134	20.4	6.00 a
DEKALB	DK683	179	173	182	183	23.7	1.50 i
DEKALB	DK743	185	178	188	184	26.6	2.63 gh
HYTEST	HT686	174	160	159	175	25.1	1.25 i
HYTEST	HT797	175	153	161	170	25.4	1.38 i
NORTHROP KING	N8702	175	158	171	160	25.6	2.38 h
ASGROW	RX919	174	147	175	173	25.6	1.00 i
ASGROW	RX923	167	161	170	183	25.2	1.25 i
CAVERNDALE FARMS	SILAGEMAKER A	148	129	150	138	34.2	2.75 fgh
SOUTHERN STATES	SS883	201	187	204	188	26.2	4.68 cd
SOUTHERN STATES	SS943	197	177	177	*212	27.1	1.13 i
TERRA INT'L	TR1185	175	166	165	181	25.6	1.00 i
DOWELANCO	XHP17193	164	139	157	150	19.8	1.25 i
DOWELANCO	XHP17194	164	109	162	150	21.7	3.25 efg
DOWELANCO	XHP18069	159	137	150	130	25.4	4.50 cd
DOWELANCO	XHP18070	153	131	153	131	25.5	4.00 de
DOWELANCO	XHP18071	165	133	149	151	26.2	1.00 i
ASGROW	XP8383	185	164	178	175	22.3	1.00 i
	LSD						0.68
	AVERAGE	169	151	166	161	25.7	

Accent® and Beacon® are post-emergence herbicides that are applied to control johnsongrass in corn when the corn is 12 to 20 inches in height. As the johnsongrass dies in response to the herbicide, the aphids and leaf hoppers move from johnsongrass to the corn. Virus infection at this early stage greatly reduces yield of a susceptible hybrid. In order to avoid serious losses from the corn viruses, growers should plant hybrids with a high level of MDMV (Maize Dwarf Mosaic Virus) resistance. The hybrids tested in these plots were selected by the corn companies to determine their degree of MDMV resistance. The test was unique in that the tolerance of the selected hybrids to Accent® and Beacon® was also evaluated. Each of the hybrids was planted in 8 row plots 25 feet long with 4 replications. Two rows of each hybrid were inoculated with MDMV when the corn was 16 inches tall. Two rows of each hybrid were sprayed with a 2X rate of Accent® and two rows were sprayed with a 2X rate of Beacon®. The remaining two rows of each hybrid were not inoculated or sprayed with a herbicide (CHECK). The plots were rated for virus and herbicide reaction. All plots were harvested with a 2 row plot combine.

Accent® and Beacon® are the registered trade names for 2-[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-n-n-dimethyl-3-pyridinecarboxamide; E.I. du Pont de Nemours & Co., Inc., Wilmington, DE and 3-[4,6-Bis-(difluoromethoxy)-pyrimidin-2-yl]-1-(2-methoxycarbonylphenylsulfonyl)urea; CIBA-Geigy Corp., Greensboro, NC, respectively.

Early season infection by MDMV and Maize Chlorotic Dwarf Virus (MCMV) can reduce corn yields of susceptible hybrids by greater than 50%. Infection by only MDMV may not reduce yields as dramatically, even on susceptible hybrids. The MCDV cannot be mechanically transmitted which greatly complicates the ability to study its direct effect on corn hybrids. Both of these viruses are present in most johnsongrass as are the insects

which vector the viruses from the johnsongrass to the corn, aphids being the MDMV vector and leaf hopper being the MCDV vector. Hybrids with resistance to MDMV also generally have the ability to yield even when infected with ??????. Thus, the MDMV ratings in this study are a better way to evaluate hybrid resistance to corn viruses that are spread from johnsongrass than are yields, due to lack of MCDV infection and differences in yields due to soil variation.

In order to simulate MDMV pressure all corn hybrids evaluated were mechanically inoculated with the virus when plants were 16 inches tall. This produced a test that had plants uniformly infected with the virus. All hybrids were rated on a 1-9 scale where: 1=No symptoms; 3=Mild chlorosis in a characteristic mosaic pattern, usually confined to two or three leaves; 6=Moderate to severe chlorosis over most of leaf area, height reduction one-fourth; 9= Severe chlorosis, height reduction more than one-half, little if any ear shoot development.

* Means differ significantly from the control (Dunnett's T test(0.10)). Means followed by the same letter(s) are not significantly different using Duncan's MRT (0.05).

Unpublished research by Ms. Liz Bender, Dr. Erik Stromberg, Dr. Scott Hagood and Dr. Dan Brann, Research Associate, Plant Pathologist, Weed Scientist and Extension Agronomist, respectively.

