

CORN PERFORMANCE TESTS IN VIRGINIA IN 1966

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Research Report 117

January 1967

RESEARCH DIVISION
VIRGINIA POLYTECHNIC INSTITUTE

DEPARTMENT OF AGRONOMY

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This report includes the analyzed results of varietal trials of corn hybrids which either are being sold in Virginia or are designed for sale in Virginia.

The performance record of many hybrids tested in previous years is summarized in Research Report No. 76 of the Virginia Agricultural Experiment Station entitled, "Performance of Hybrid Corn Varieties Tested in Virginia, 1957-1963."

Procedure for Evaluating Corn Hybrids

Seed for all yield trials was packaged at Blacksburg with the seed being counted out for each replication of each trial. Each trial contained four replications, two of which were planted to obtain a final stand of 16,000 plants per acre and two of which were planted to obtain a final stand of 22,000 plants per acre at all locations except Charlotte C. H. where stands of 14,000 and 20,000 plants per acre were sought. Plots were seeded at a rate approximately 15% above the desired stand and thinned to the desired final stand if necessary.

Yield trials containing 64 entries each were located as follows: at the Tidewater Research Station at Holland in the southern coastal plain region; at the Eastern Research Station at Warsaw in the northern coastal plain region; at Virginia State College at Petersburg in east central Virginia; at Southside Research Station at Charlotte Court House in the southern Piedmont area; at the Piedmont Research Station at Orange in the northern Piedmont area; at the Southwest Virginia Research Station at Emory; at Virginia Polytechnic Institute at Blacksburg in western Virginia. In addition, a yield trial of 16 early maturing hybrids for southeastern Virginia was conducted at Holland and 36 hybrids, several of which would be considered primarily for use as silage, were compared at the Shenandoah Research Station at Steeles Tavern in the northern valley of Virginia. The location of the trial, the name of the cooperator, and the cultural practices followed in conducting the trial are shown with each table reporting 1966 data.

The following data are reported in one or more tables: (1) yield in bushels per acre corrected to 15.5% moisture, given for each of the two rates of planting; (2) relative yield, which is the yield at each rate of planting divided by the over-all average yield for the entire test; (3) percent stand--calculated from the actual stand divided by the desired stand; (4) percent moisture in the grain at harvest; (5) percent erect--those neither root lodged or stalk broken; (6) number of days from planting to mid-silking; (7) ear height measured in inches to the ear bearing node; (8) grain quality scored visually on the basis of diseased kernels and scored from 1=very poor to 5=excellent; and (9) number of ears per 100 plants (reported as "No. of ears") counting all ears which were filled completely for three or more inches.

Each company which entered hybrids in these yield trials was asked to rate their hybrids for relative maturity. On the basis of these rating and data which had been previously obtained in Virginia yield trials, each hybrid was given a maturity rating based on performance which might be expected in the coastal plain area of Virginia.

Hybrids are arranged in the tables in alphabetical order of the company or brand name, with each company's hybrids listed from earliest to latest according to this maturity rating. The following symbols are used to desig-

nate maturity: VE=very early, ME=medium early, E=early, M=medium, ML=medium late and L=late. We recognize that there are sampling errors in determining moisture at harvest and that there are also adjustments that must sometimes be made in assigning a maturity classification to a hybrid as data accumulate. Consequently, the maturity ratings and the moisture at harvest for hybrids in a given test are not in complete agreement. We hope, however, that the arrangement of hybrids in these tables will help in locating and evaluating the hybrids that were compared. Grouping the hybrids of each company should help to locate those hybrids of particular interest, and should make comparisons from year to year or from location to location somewhat easier. The "relative yield" will give a ready yield comparison based on the over-all average of the trial so that hybrids that are better than average in yield can be readily pointed out.

The same maturity ratings are used for a given hybrid in all trials. Since the coastal plain area of eastern Virginia has the longest growing season and the growing season tends to be shorter toward the western areas, maturity ratings as listed may not apply to the Piedmont and western trials. For instance, a "very early" hybrid for the coastal plain region may be "early" in the Piedmont and "medium early" in some of the locations of western Virginia. Likewise, a "late" hybrid in eastern Virginia might be totally unsuited for grain production in the Piedmont and western areas.

Each yield trial contains a considerable range of maturity among the hybrids tested. Since all hybrids were harvested on the same date at a given location, the earlier hybrids in the trials are at a disadvantage with regard to grain quality and stalk breakage and some allowance should be made in these comparisons for this often-delayed harvest of early hybrids.

Duncan's Multiple Range Test was applied to each rate of planting in the 1966 data. The yields which were not significantly different from the best yield at each rate of planting are given in the table of 1966 data. Recommendations have not been made by the Research Division of VPI on the basis of these data. Those hybrids which have been better than average for the trial in both yield (at one or both rates of planting) and standability have been underlined at each location. Yields, percent erect, and quality score performance which was higher than average for the trial, and moisture content and ear height that was lower than the average for the trial were also underlined.

Growing Conditions during 1966

Cool, wet weather generally prevailed throughout Virginia during June. All locations experienced drought in varying degrees of intensity during July and August. Corn in the Charlotte Court House trial was irrigated twice, but the initial irrigation was made too late for maximum benefit and early hybrids were hurt most by the drought. The latter part of the growing season throughout Virginia was wet.

Stalk breakage in many of the trials was quite serious, with breakage, probably increased as a result of a dry summer followed by a wet fall. Leaf diseases were not of major concern during 1966, probably as a direct result of a dry mid-summer.

Single crosses and three-way hybrids were entered in these trials in increasing numbers, and the outstanding yields were made by these hybrids. Because single crosses and three-way hybrids are more limited in their genetic background

than double crosses, they may be more specific in the responses which they make to given growing conditions. This seems to be particularly evident in these data with respect to response of hybrids to different rates of planting. Some hybrids perform very well at 16,000 plants per acre but do not appear to respond favorably to increased rates of planting. However, some of the highest yields in some trials were made at 16,000 plants per acre. Careful attention should be given, therefore, not only to the average performance of each hybrid in these trials, but also to their response at each of the two rates of planting.

Only average standability at both rates of planting, moisture at harvest, quality rating, ear height, and ears per 100 plants are given. We are considering, however, reporting erect plants and ears per 100 plants at each rate of planting in future reports.

Contributors of Seed

Seed of some open-pedigree hybrids was obtained from Virginia certified seed growers. Seed of privately controlled hybrids was obtained from the respective companies. Other hybrid seed was produced by VPI. Some privately developed hybrids were entered in some trials at the request of one or more agencies to provide local information. The list of brand names and the source of seed of tested hybrids follows:

<u>Hybrid Trade Name</u>	<u>Source of Seed--Contributors of Seed</u>
Asgrow	Asgrow Seed Company, Mechanicsburg, Pennsylvania
Crib Filler	Mitchell Farms, Windfall, Indiana
DeKalb	DeKalb Agricultural Association, DeKalb, Ill.
Hofmeyer	A. N. Hofmeyer, Tomahund Plantation, Williamsburg, Va.
Hollyview	Hollyview Farm, Mount Airy, North Carolina
McNair	McNair Seed Co., Laurinburg, North Carolina
Muncy Chief	The Hoffman Seed & Grain Co., Muncy, Pa.
Northrup-King	Northrup-King and Co., Minneapolis, Minn.
O & M	Ohio & Michigan Seed Co., Green Springs, Ohio
PAG	Pfister Hybrids, Black & Abbott Farms, Walnut, Ill.
Pioneer	Pioneer Hybrid Corn Co., Tipton, Indiana
Ross	Garnett-Ross, Inc., Bethesda, Maryland
Southern States	Cooperative Seed & Farm Supply Service, Richmond, Va.
Stull	Stull Bros., Inc., Sebree, Kentucky
Taylor-Evans	Taylor-Evans Seed Co., Tulia, Texas
Thompson	G. D. Thompson & Son, Route 1, Eagle Rock, Va.
Todd	Todd Hybrid Sales, Abbottstown, Pa.
Watson	Watson Seed Farm, Rocky Mount, N. C.

VIRGINIA HYBRIDS IN YIELD TRIALS IN 1965

<u>Hybrid</u>	<u>Pedigree</u>	<u>Tables</u>
Va219	(Va17 x Va28) (Hy3 x C103)	6,10
Va326	(Va17 x Va29) (Va20 x MinnA619)	6,10,16,19
Va365	(1aB37 x Va17) (Va41 x VE72b)	6,10,16
Va368	(Va31 x Va32) (Va36 x VE61)	10,19
Va369	(Va31 x IndH49) (Va36 x VE61)	6,10,16,19
Va376	(1aB37 x Va27) (Va17 x VE58)	10
Va420	(1aB37 x Va27) (Va35 x Va12a)	6
Va423	(1aB37 x Va17) (Va26 x Va27)	1,6,10,11,16,17,19,20
Va426	(1aB37 x Va27) (Va17 x Va36)	1,2,6,10,11,16,17,10,20,22
Va434	(1aB37 x Va31) (Va20 x Va29)	6,16
Va446	(IndH49 x Va35) (Va29 x Va43)	1,2,7,8
VE58 x Va28		1,6,7,10,13,16,19
VE58 x Va29		6,10,16
Va31 x VE59		19
VPI 426 (WF9 x C103) (OH 43 x OH 45)		22
VPI 646 (WF9 x T8) (38-11 x C103)		16,17,19,20
VPI 648 (WF9 x T8) (Hy3 x C103)		All except 4 & 5

HYBRIDS TESTED, TYPES OF HYBRID, AND TABLES REPORTING DATA

<u>Hybrid</u>	<u>Type</u>	<u>Tables</u>	<u>Hybrid</u>	<u>Type</u>	<u>Tables</u>
Asgrow-ASC61	2x	1,13	DeKalb XL390W	4x	6,10,16
Asgrow-ATC89	3x	1,6,7,10,13,16,19	DeKalb 999	4x	10
Asgrow-ATC93	3x	1,13,19	DeKalb 1006	4x	1,6,10,11,22
Asgrow-ASC95	2x	1,6,7,10,13,16,19	Funk G96	4x	1,7,13,22
Asgrow-A100	4x	7,16,19	Funk G4601	2x	1,7,13
Asgrow-A110	4x	1,2,6,7,8,10,11,13, 14,16,17,19,20,22	Funk G4644	2x	1,7,13
Asgrow-ASC112	2x	1,6,7,10,13,16,19	Funk G4703	2x	1,7,13
Asgrow-A116	4x	6,10,16	Funk G146	4x	1,7,22
Asgrow-A120	4x	1,6,7,10,13,16,19	Funk G4697	Sp	1,7,13
Asgrow-A200B	4x	6,7,10	Funk G5757	4x	1,7,13
Asgrow-A202	4x	1,6,7,10,13,16,19	Hofmeyer's H404	4x	7
Asgrow-SMb	Sp	22	Hofmeyer's H55	2x	1,2,3,6,7,8,9,10,11,12, 13,14,16,19,22
Crib Filler-40	2x	19,20	Hofmeyer's H505	4x	1,2,3,6,7,8,9,
Crib Filler-116	4x	6,13,14,15,22	Hofmeyer's 600W	4x	7
Crib Filler-123	4x	1,2,7,8	Hofmeyer's Bin Buster	4x	1,2,3,7,8,9,10,11,12,13, 14
Crib Filler-66	2x	1,2,3,6,7,8,9,13, 14,15,19,20,21,22	Hofmeyer's H601	4x	1,2,3,6,10,11,12,13,14, 22
Crib Filler-88	2x	6,7	Hollyview 160	4x	16,17,19,20
Crib Filler-128	4x	7	McNair 198	2x	1,2,6,7,8,10,11,13,14, 16,17,19,20
DeKalb XL342	3x	1,7,10,13,16,19	McNair X202	2x	1,2,6,7,8,10,11,13,16, 19,22
DeKalb XL45	Sx	13,14,19,20	McNair 225W	4x	1,2,6,7,8,10,11,13,14, 16,17,19,20
DeKalb XL346	3x	1,7,8,10,11,13,16, 17,19,20	McNair 340V	4x	1,6,7,10
DeKalb XL624	4x	6,7,8,16,17,18,19, 20,21,22	Muncy Chief SX550	2x	16,19
DeKalb XL46	Sx	1	Muncy Chief SX770	2x	1,2,10,16,17,18,19,20,21
DeKalb XL65A	Sx	1,6,7,13,16,19	Muncy Chief SX880	2x	1,2,3,6,7,8,9,10,11,12, 16,17,19,20,22
DeKalb XL362	3x	13,16			
DeKalb 805A	Sx	1,6,7,10,13,16,19, 22			
DeKalb 872	4x	6,7,10,13,16,19			
DeKalb XL369	3x	1,6,7,16			
DeKalb XL385	3x	1,2,6,7,10,11,13 14,16,17,19,20,22			

<u>Hybrid</u>	<u>Type</u>	<u>Tables</u>	<u>Hybrid</u>	<u>Type</u>	<u>Tables</u>
Muncy Chief H630	4x	19,20	Rose Exp.		13
Muncy Chief H720	4x	16,17			
Muncy Chief H740	4x	13,14,15,16,17,18,22	Stull 101YB	4x	16,17,18
Muncy Chief H750	4x	6,10,11	Stull 400WA	4x	16,17
Muncy Chief H780	4x	10,11	Stull 100YM	4x	16
Muncy Chief H802	4x	6	Stull 807SX	2x	16,17,18
Muncy Chief H850	4x	1,2,6,13			
Northrup King			Southern States		
PX52	2x	6,7,10,13,16,19	Pocahontas	4x	6,7,8
Northrup King			S S 755	4x	13,14,15,16,17,18
PX610	3x	6,7,8,10,11,13,14,16,17,19,20	S S 820S	2x	All Except 4 & 5
Northrup King			S S 866	4x	6,10
PX616	3x	6,7,8,10,11,13,14,16,17,19,20,22	S S 860	4x	All Except 4 & 5
Northrup King			S S Matoaka	4x	13,14,15,16,17,18,19
KT626	4x	1,2,6,7,8,10,11,13,14,16,17,19,20,22	S S 909E	4x	1,13,14,19,20,22
Northrup King			S S Catawba	4x	1,2,3,6,7,8,9,10,11,
PX676	Sp	1,6,7,10,13,16,19	S S 979	4x	1,2,3,10,11,12,22
Northrup King			S S Exp. D1186	Sp	7,13,16,19
PX674	3x	1,6,7,10,13,16,19	Taylor-Evans 6415	3x	1,6,7,10,13,16,19
O & M GS700	4x	22	Taylor-Evans E20YB	4x	1,2,6,7,8,10,11,13,14,16,17,19,20
PAG SX59	2x	22	Taylor-Evans SX20Y	2x	1,2,6,7,8,10,11,13,14,15,16,17,18,19,20,21
Pioneer 3524			Taylor-Evans E20YA	4x	All Except 4 & 5
Pioneer 3567	2x	19	Taylor-Evans Cropmaster	3x	1,2,6,7,8,10,11,13,14,16,17,19,20,22
Pioneer 345A	4x	16,17,18	Taylor-Evans Dollarmaker	3x	1,6,7,10,13,16,19
Pioneer 3369	2x	16,19,20	Taylor-Evans Cashmaker	2x	1,6,7,10,13,16,19
Pioneer 3306	2x	1,2,3,7,8,9,10,11,12,13,19,20,22	Taylor-Evans Mintmaker	2x	1,6,7,10,13,16,19
Pioneer 310	4x	1,2,3,10,11,12,16,17,22	Thompson SC220	2x	10,13,14,15,19,20,21,22
Pioneer 309A	4x	13,14,22	Thompson 101	4x	10,13,14,15,19,20,21,22
Pioneer 511(W)	4x	7,8	Thompson 219	4x	10,13,14,15,19,20,21,22
Pioneer 511A(W)	4x	1,2	Todd 862	4x	13,14
Pioneer 3059	4x	1,2,7,8,10,11	Todd 92A	2x	6,7,13
			Todd 92B	2x	1,6,7,13,22
			US 13	4x	19
			Watson 401A	4x	1,2,3,6
			Watson 430	4x	1,2,3,6,10,22

TABLE 1. CORN PERFORMANCE, HOLLAND, VA., 1966

HYBRID	MATU- RITY	YIELD BU/A		RELATIVE YIELD			PCT STAND	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
		R1	R2	R1	R2							
ASGROW ASC61	VE	96.1	116.9	79	96	100	18.7	94	66	35	3.6	
ASGROW ATC89	ME	106.8	105.9	88	87	100	19.1	85	72	43	3.8	
ASGROW ATC93	M	124.5	125.8	103	104	99	19.9	86	74	45	4.0	
<u>ASGROW ASC95</u>	<u>M</u>	<u>129.9</u>	<u>141.3</u>	107	116	97	22.0	96	73	48	4.0	
ASGROW A110	M	112.6	108.7	93	90	99	21.0	91	75	43	3.5	
ASGROW ASC112	ML	134.3	144.4	111	119	102	19.8	86	75	49	3.8	
<u>ASGROW A120</u>	<u>L</u>	<u>136.5</u>	<u>132.6</u>	113	109	101	20.8	91	74	47	3.5	
ASGROW A202	L	127.7	125.2	105	103	99	22.1	89	77	51	3.9	
<u>CRIBFILLER 123</u>	<u>M</u>	<u>132.1</u>	<u>119.5</u>	109	99	100	21.1	93	74	48	3.8	
CRIBFILLER 66	ML	123.8	124.2	102	102	99	20.7	82	75	46	3.9	
DEKALB XL342	VE	103.8	104.5	86	86	97	19.3	95	71	45	3.4	
DEKALB XL346	ME	101.6	98.9	84	82	98	18.3	93	69	38	3.6	
DEKALB XL46	M	119.4	125.9	98	104	99	18.1	94	71	40	4.0	
DEKALB XL65A	M	105.9	101.7	87	84	99	18.7	95	70	40	3.5	
DEKALB 805A	M	132.1	115.1	109	95	100	19.5	83	74	46	3.8	
<u>DEKALB XL369</u>	<u>M</u>	<u>129.4</u>	<u>148.3</u>	107	122	100	18.7	97	76	46	3.9	
<u>DEKALB XL385</u>	<u>ML</u>	<u>130.0</u>	<u>135.1</u>	107	111	100	20.8	91	76	50	3.9	
DEKALB 1006	L	101.9	118.9	84	98	97	22.6	85	78	55	3.9	
FUNK G96	M	118.6	115.2	98	95	98	19.6	85	72	43	3.6	
FUNK G4601	M	117.7	130.3	97	107	99	21.5	94	74	47	3.9	
FUNK G4644	M	114.6	112.5	94	93	98	21.1	99	72	46	4.0	
<u>FUNK G4703</u>	<u>M</u>	<u>138.5</u>	<u>127.3</u>	114	105	99	21.0	92	73	50	3.9	
FUNK G146	ML	107.8	128.9	89	106	98	23.3	85	74	46	4.1	
FUNK G4697	ML	116.9	128.6	96	106	100	20.5	96	71	46	3.9	
<u>FUNK G5757</u>	<u>ML</u>	<u>113.9</u>	<u>128.5</u>	94	106	101	21.8	96	73	46	4.0	
HOFMEYER H55	M	145.0	126.9	120	105	98	19.6	84	74	48	3.9	
HOFMEYER H505	M	109.5	127.0	90	105	100	19.7	87	74	46	3.5	
<u>HOFMEYERBINBUSTER</u>	<u>ML</u>	<u>119.4</u>	<u>127.7</u>	98	105	100	20.8	91	75	50	4.0	
HOFMEYER H601	L	116.0	136.1	96	112	99	21.2	89	76	49	3.8	
MCNAIR 198	M	110.5	95.7	91	79	94	19.6	88	75	46	3.6	
MCNAIR X202	ML	141.0	134.3	116	111	99	21.0	83	75	48	4.1	
MCNAIR 225W	L	106.1	109.4	87	90	99	21.5	93	77	49	4.0	
<u>MCNAIR 340V</u>	<u>L</u>	<u>114.3</u>	<u>127.1</u>	94	105	100	24.1	96	79	52	3.9	
MEAN		119.1	123.6	98	102	98	20.5	89	74	46	3.8	
<u>MUNCYCHIEF SX770</u>	<u>M</u>	<u>121.4</u>	<u>141.6</u>	100	117	98	19.7	93	75	44	3.9	
MUNCYCHIEF SX880	M	110.0	132.7	91	109	90	20.9	82	74	48	3.9	
MUNCYCHIEF H850	M	102.2	109.9	84	91	100	19.5	92	73	47	3.8	
N-KING KT626	M	113.7	116.4	94	96	97	19.0	94	73	46	3.8	
N-KING PX676	M	132.4	133.2	109	110	101	18.8	87	74	45	3.8	
N-KING PX674	ML	110.4	120.4	91	99	99	19.5	90	75	46	3.6	
<u>PIONEER 3306</u>	<u>M</u>	<u>137.0</u>	<u>137.7</u>	113	114	99	21.3	95	76	46	3.5	
PIONEER 310	ML	115.2	118.2	95	97	98	20.3	90	75	50	3.8	
PIONEER 511A(W)	L	119.2	129.3	98	107	97	21.5	89	77	54	3.9	
PIONEER 3059	L	107.6	118.5	89	98	101	20.5	92	79	53	4.0	
SS 820S	M	129.9	137.1	107	113	99	19.3	87	73	48	3.8	
SS 860	ML	97.9	118.1	81	97	98	20.9	91	76	48	3.5	
SS 909E	L	114.1	125.5	94	103	98	21.5	90	80	55	2.9	
SS CATAWBA	L	112.6	119.2	93	98	100	21.3	88	76	47	3.8	
<u>SS 979</u>	<u>VL</u>	<u>116.8</u>	<u>134.2</u>	96	111	99	21.9	90	77	51	3.8	
TE 6415	ME	109.1	110.1	90	91	100	18.9	72	70	41	3.5	
TE E20YB	M	125.3	115.4	103	95	100	19.6	88	74	47	3.9	
TE SX20Y	M	120.3	123.7	99	102	98	20.4	87	74	49	3.8	
TE E20YA	M	124.4	120.1	103	99	100	20.5	83	73	47	3.6	
TE CROPMASTER	M	117.0	101.1	96	83	99	20.5	86	75	47	3.4	
TE DOLLARMAKER	M	111.5	118.2	92	97	100	19.2	92	72	40	4.0	
TE CASHMAKER	M	111.9	111.3	92	92	99	19.4	96	69	38	3.4	
TE MINTMAKER	ML	119.5	118.4	99	98	98	19.4	78	72	43	4.0	
TODD 92B	L	117.9	128.7	97	106	88	21.2	88	74	45	4.0	
VPI 648	M	110.0	102.8	91	85	100	21.5	83	77	48	3.4	
WATSON 401A	L	125.9	136.5	104	113	99	21.0	87	76	45	3.8	
<u>WATSON 430</u>	<u>L</u>	<u>134.0</u>	<u>135.9</u>	110	112	99	22.7	93	76	51	4.1	
VA 426	M	127.1	131.8	105	109	100	21.2	94	74	47	3.9	
VA28 X VE58	ML	134.6	127.9	111	105	77	22.5	65	75	46	4.3	
<u>VA 423</u>	<u>ML</u>	<u>110.6</u>	<u>133.7</u>	91	110	93	19.8	95	72	44	3.5	
VA 446	L	141.8	152.3	117	126	101	21.8	84	75	49	3.9	

THESE YIELDS NOT SIGN. DIFFERENT 120.3- 123.7- 99- 102-
145.0 152.3 120 126

COOPERATOR: M. W. ALEXANDER, TIDEWATER RESEARCH STATION, HOLLAND
 DATE PLANTED: APRIL 26. DATE HARVESTED: SEPTEMBER 26 & 27.
 PLOT SIZE: 2 ROWS, 36" X 18'
 FERTILIZER BEFORE PLANTING: 325 LB. 3-9-18/ACRE
 FERTILIZER APPLIED PRE-EMERGE: 150 LB. N(LIQUID AMMONIUM NITRATE)
 PLANTS PER ACRE FOR PERFECT STAND: R1=16,000; R2=22,000
 GROWING CONDITIONS: WET AND COLD EARLY, DRY DURING MID-SUMMER

Underlined hybrids indicate above average yield and % erect. Above average factors are also underlined.

TABLE 2. CORN PERFORMANCE, HOLLAND, VA., 1965-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	PCT ERECT	EAR HT. IN.	QUAL-ITY
		R1	R2	R1	R2				
ASGROW A110	M	121.1	119.1	90	89	21.4	95	40	3.7
CRIBFILLER 66	ML	142.8	150.6	107	112	21.1	91	44	4.2
CRIBFILLER 123	M	136.5	129.5	102	97	21.2	96	44	3.8
DEKALB XL385	ML	141.1	151.9	105	113	21.2	95	47	4.0
HOFMEYER H55	M	136.3	133.4	102	100	20.9	92	45	4.0
HOFMEYERBINBUSTER	ML	129.9	138.4	97	103	21.5	95	46	4.0
HOFMEYER H505	M	113.5	132.7	85	99	20.6	92	42	3.8
MCNAIR 198	M	108.0	114.0	81	85	20.3	93	41	3.8
HOFMEYER H601	L	128.8	146.9	96	110	21.6	93	48	3.7
MCNAIR 225W	L	120.4	116.5	90	87	21.7	96	46	4.2
MCNAIR X202	ML	148.8	154.3	111	115	21.3	90	45	4.2
MUNCYCHIEF SX770	M	123.5	143.4	92	107	21.1	96	41	4.1
MUNCYCHIEF H850	M	111.6	127.2	83	95	19.7	95	43	4.0
MUNCYCHIEF SX880	M	120.7	141.2	90	105	21.4	90	45	4.0
N-KING KT626	M	117.7	129.1	88	96	20.0	97	43	3.9
MEAN		129.1	138.6	96	104	21.2	93	44	3.9
PIONEER 3306	M	139.4	154.0	104	115	20.9	96	44	3.8
PIONEER 310	ML	132.1	136.7	99	102	21.0	94	44	3.9
PIONEER 511A(W)	L	133.5	149.1	100	111	22.0	93	48	4.2
SS 820S	M	139.2	146.3	104	109	20.5	93	45	4.1
PIONEER 3059	L	126.6	143.2	95	107	21.7	96	49	4.1
SS 860	ML	118.7	131.0	89	98	21.2	94	46	3.7
SS CATAWBA	L	122.1	132.7	91	99	21.8	93	44	3.9
SS 979	VL	128.8	156.3	96	117	22.2	92	49	4.1
TE E20YB	M	127.3	126.1	95	94	20.2	93	43	4.0
TE SX20Y	M	125.6	135.1	94	101	21.0	92	45	3.9
TE E20YA	M	134.1	132.6	100	99	21.1	91	43	3.8
TE CROPMASER	M	132.3	121.6	99	91	20.9	92	44	3.8
VPI 648	M	123.4	132.4	92	99	21.7	91	45	3.5
WATSON 401A	L	128.4	146.2	96	109	22.1	93	42	4.0
WATSON 430	L	135.5	151.4	101	113	22.6	96	47	4.1
VA 426	M	134.4	145.3	100	109	21.5	97	43	4.0
VA 446	L	149.1	167.7	111	125	22.7	90	44	4.0

TABLE 3. CORN PERFORMANCE, HOLLAND, VA., 1964-65-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	PCT ERECT	EAR HT. IN.
		R1	R2	R1	R2			
CRIBFILLER 66	ML	135.3	144.5	101	108	20.7	41	
HOFMEYER H55	M	129.7	132.0	97	99	20.3	42	
HOFMEYERBINBUSTER	ML	127.6	136.8	95	102	21.1	44	
HOFMEYER H505	M	115.2	127.5	86	95	19.9	40	
HOFMEYER H601	L	132.9	143.1	99	107	21.4	45	
MUNCYCHIEF SX880	M	124.3	141.5	93	106	20.7	42	
PIONEER 3306	M	141.1	147.7	105	110	20.0	42	
PIONEER 310	ML	130.4	134.6	97	100	20.6	41	
MEAN		129.3	138.8	96	104	20.9	42	
SS 860	ML	118.6	126.6	89	94	20.4	42	
SS 820S	M	132.4	139.8	99	104	20.0	42	
SS 979	VL	133.2	155.3	99	116	21.8	46	
SS CATAWBA	L	124.4	131.9	93	98	21.4	40	
TE E20YA	M	134.7	135.3	101	101	20.7	42	
VPI 648	M	121.5	128.2	91	96	21.3	42	
WATSON 430	L	137.0	153.3	102	114	22.4	44	
WATSON 401A	L	130.1	142.3	97	106	21.7	41	

TABLE 4. PERFORMANCE OF EARLY HYBRIDS, HOLLAND, VA., 1966

		YIELD BU/A	RELATIVE YIELD	PCT STAND	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL-ITY
ASGROW ASC61	VE	118.8	92	93	16.6	85	67	34	3.6
ASGROW ATC89	ME	125.4	97	92	18.6	88	71	40	4.1
ASGROW ATC93	M	146.6	113	93	19.9	81	73	45	4.1
ASGROW A100	M	136.2	105	91	18.8	81	72	43	4.3
DEKALB XL342	VE	141.6	110	94	18.9	99	71	43	4.0
PIONEER 3466	VE	132.1	102	93	17.9	76	68	44	3.9
PIONEER 3524	VE	125.4	97	93	18.4	95	71	37	4.1
DEKALB XL45	E	124.2	96	92	16.7	92	66	33	4.0
DEKALB XL346	ME	122.3	95	90	18.1	93	69	40	3.9
MUNCYCHIEF SX550	E	109.9	85	94	17.3	92	68	35	3.5
PIONEER 3284	ME	134.3	104	94	17.9	97	75	46	3.9
SS POCAHONTAS	E	115.3	89	94	18.7	78	75	44	3.8
SS 755	ML	129.9	100	94	18.6	77	71	40	4.0
SS EXP D1186	E	142.4	110	92	18.4	77	71	43	3.4
MCNAIR 198	M	142.1	110	94	19.0	92	73	42	3.8
HOFMEYER H404	E	123.0	95	93	17.6	81	71	42	3.8
MEAN		129.3	100	93	18.2	87	71	41	3.9

COOPERATOR: M. W. ALEXANDER, TIDEWATER RESEARCH STATION, HOLLAND
 DATE PLANTED: MAY 26. DATE HARVESTED: SEPTEMBER 27.
 PLOT SIZE: 2 ROWS, 36" X 18'
 FERTILIZER BEFORE PLANTING: 725 LBS. 3-9-18/ACRE
 FERTILIZER APPLIED PRE-EMERGE: 150 LBS. N(LIQUID AMMONIUM NITRATE)
 PLANTS PER ACRE FOR PERFECT STAND: R1=20,000; R2=25,000
 GROWING CONDITIONS: WET AND COLD EARLY, DRY DURING MID-SUMMER

TABLE 5. CORN PERFORMANCE, PETERSBURG, VA., 1964 AND 1966

		YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	DAYS TO SILK	EAR HT. IN.	QUAL-ITY
		R1	R2	R1	R2					
CRIBFILLER 66	ML	103.8	104.0	106	107	89	22.7	76	38	4.2
HOFMEYER H55	M	111.3	103.7	114	106	88	20.5	74	39	3.5
HOFMEYER H601	L	99.0	84.6	102	87	91	25.0	78	38	2.9
HOFMEYER H505	M	94.1	86.7	97	89	93	21.2	74	37	2.3
MUNCYCHIEF SX880	M	107.4	106.5	110	109	90	20.9	75	38	4.1
MUNCYCHIEF H802	ME	111.9	83.0	115	85	89	20.3	76	37	2.4
MEAN		99.0	95.9	102	98	90	22.5	75	38	3.2
SS 820S	M	90.1	91.9	92	94	89	22.9	73	37	2.8
SS 860	ML	98.0	91.8	101	94	90	22.7	78	39	3.2
SS CATAWBA	L	88.9	106.3	91	109	93	22.7	76	39	3.0
TE E20YA	M	87.5	89.2	90	91	92	22.0	76	35	2.6
VPI 648	M	95.9	102.5	98	105	89	22.8	74	39	3.5
WATSON 401A	L	103.4	87.9	106	90	87	24.0	76	37	3.5
WATSON 430	L	95.8	109.1	98	112	89	24.9	79	40	3.5

TABLE 6. CORN PERFORMANCE, PETERSBURG, VA., 1966

HYBRID	MATU- RITY	YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
		R1	R2	R1	R2						
ASGROW A120	L	69.1	82.3	100	119	88	18.5	96	68	42	3.9
ASGROW ASC95	M	70.2	65.4	102	95	82	21.8	96	73	46	3.1
ASGROW A110	M	73.7	63.1	107	91	91	23.6	98	72	40	3.4
ASGROW ASC112	ML	66.7	65.5	97	95	89	23.4	98	73	45	2.1
ASGROW A116	L	75.0	56.1	109	81	87	20.0	99	73	41	2.6
ASGROW A120	L	74.8	64.6	108	93	87	21.9	99	72	44	3.0
ASGROW A200B	L	61.0	65.8	88	95	83	23.1	87	75	45	3.5
ASGROW A202	L	68.8	71.6	100	104	91	24.4	98	74	44	3.1
CRIBFILLER 116	ME	61.1	69.3	88	100	89	21.1	100	72	43	2.6
CRIBFILLER 66	ML	64.4	68.9	93	100	87	23.1	99	74	45	3.4
CRIBFILLER 88	ML	76.9	79.4	111	115	88	21.2	98	69	45	3.0
DEKALB 624	ME	55.0	77.5	80	112	91	22.4	98	70	45	2.5
DEKALB XL65A	M	49.5	68.0	72	98	91	20.0	100	72	40	3.4
DEKALB 805A	M	70.6	79.6	102	115	81	20.2	96	71	43	2.8
DEKALB 872	M	63.2	75.1	91	109	77	22.6	100	73	44	3.4
DEKALB XL369	M	91.3	58.3	132	84	86	20.7	100	73	43	3.5
DEKALB XL385	ML	55.3	67.5	80	98	91	24.0	99	76	48	2.7
DEKALB XL390W	L	72.0	52.9	104	77	84	23.2	97	78	42	2.9
DEKALB 1006	L	65.3	66.6	95	96	82	25.4	98	76	49	2.7
HOFMEYER H55	M	85.8	81.8	124	118	86	20.5	98	70	46	3.4
HOFMEYER H505	M	67.4	62.1	98	90	90	20.0	99	71	43	3.0
HOFMEYER H601	L	69.5	63.6	101	92	87	24.5	98	77	44	2.8
MCNAIR 198	M	64.5	56.2	93	81	89	20.3	100	70	45	3.0
MCNAIR X202	ML	86.1	73.9	125	107	90	22.0	98	73	42	2.8
MCNAIR 225W	L	66.2	63.3	96	92	82	24.6	100	75	44	3.4
MCNAIR 340V	L	75.1	70.0	109	101	91	28.7	96	78	47	4.0
MUNCYCHIEF H802	ME	87.2	45.3	126	66	86	19.6	99	73	43	2.3
MUNCYCHIEF SX880	M	85.5	79.4	124	115	84	20.9	98	70	47	4.1
MUNCYCHIEF H850	M	46.6	64.8	67	94	93	20.0	100	72	43	2.6
MUNCYCHIEF H750	ML	74.5	50.8	108	74	87	19.9	98	71	39	2.6
N-KING PX52	E	59.6	57.1	86	83	78	17.3	100	66	37	2.8
N-KING PX610	M	72.4	72.6	105	105	91	18.5	99	69	35	3.3
N-KING PX616	M	71.8	82.7	104	120	82	20.4	99	69	42	3.8
MEAN		70.6	67.6	102	98	87	22.0	97	72	42	3.2
N-KING KT626	M	68.1	73.1	99	106	90	20.7	98	73	44	2.5
N-KING PX676	M	64.4	56.9	93	82	89	25.7	99	71	44	2.9
N-KING PX674	ML	59.7	70.8	86	102	90	20.3	92	74	43	2.3
SS POCAHONTAS	E	81.9	83.0	119	120	84	18.8	98	72	45	4.1
SS 820S	M	73.5	73.8	106	107	88	22.1	97	69	38	2.5
SS 866	M	74.2	69.5	107	101	82	24.0	83	75	41	3.0
SS 860	ML	72.5	61.2	105	89	87	21.2	92	75	45	2.8
SS CATAWBA	L	58.7	77.2	85	112	94	23.5	96	74	47	3.4
TE 6415	ME	67.6	72.6	98	105	79	19.5	100	69	40	3.0
TE E20YB	M	80.9	63.6	117	92	91	20.8	99	72	45	2.8
TE SX20Y	M	84.4	67.9	122	98	91	20.5	100	71	41	3.4
TE E20YA	M	50.9	69.2	74	100	89	21.2	99	74	36	2.1
TE CROPMASTER	M	71.6	49.8	104	72	92	23.5	99	72	43	2.9
TE DOLLARMAKER	M	72.6	73.0	105	106	92	20.4	98	70	39	3.9
TE CASHMAKER	M	76.4	65.8	111	95	88	19.0	100	66	35	3.9
TE MINTMAKER	ML	71.9	72.2	104	104	84	21.6	99	70	41	3.6
TODD 92A	M	74.7	63.0	108	91	86	23.0	99	73	37	3.6
TODD 92B	L	71.8	55.8	104	81	77	22.6	99	73	37	3.0
VPI 648	M	75.5	77.0	109	111	84	21.2	99	72	45	3.4
WATSON 401A	L	59.5	60.0	86	87	78	23.1	99	73	40	3.4
WATSON 430	L	60.8	66.5	88	96	85	24.3	97	76	43	3.0
VA 219	M	80.4	79.8	116	115	87	21.1	98	72	43	4.0
VA 326	M	62.9	69.4	91	100	74	22.7	94	72	43	3.3
VA 369	M	72.9	78.2	105	113	91	21.3	99	69	43	4.0
VA 426	M	58.0	52.6	84	76	88	23.2	100	74	43	2.6
VA28 x VE58	ML	76.1	69.1	110	100	77	25.3	79	74	42	4.3
VA 365	ML	80.8	65.0	117	94	87	21.9	100	71	42	3.8
VA 420	ML	60.8	69.3	88	100	91	23.4	97	74	44	3.3
VA 423	ML	81.4	72.3	118	105	84	21.3	100	70	41	3.5
VA29 x VE58	L	95.0	51.0	137	74	90	29.3	85	77	44	3.2
VA 434	L	79.9	74.9	116	108	89	22.8	99	70	42	3.5

THESE YIELDS NOT SIGN. DIFFERENT 68.1- 95.0 N.S. 99- 137 N.S.

COOPERATOR: M. T. CARTER, VIRGINIA STATE COLLEGE, PETERSBURG
 DATE PLANTED: MAY 2. DATE HARVESTED: WEEK OF SEPTEMBER 26.
 PLOT SIZE: 2 ROWS, 36" X 18'
 FERTILIZER BEFORE PLANTING: 30-60-60/ACRE
 FERTILIZER SIDEDRESSED: 200 LBS. NANO₂/ACRE
 PLANTS PER ACRE FOR PERFECT STAND: R1=16,000; R2=22,000
 GROWING CONDITIONS: COOL THROUGH MAY, VERY DRY SUMMER

TABLE 7. CORN PERFORMANCE, WARSAW, VA., 1966

HYBRID	MATU- RITY	YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
		R1	R2	R1	R2						
ASGROW ATC89	L	90.9	78.9	109	94	92	19.8	74	65	51	4.1
ASGROW ASC95	M	90.2	75.3	108	90	94	23.3	74	68	51	3.7
ASGROW A100	M	93.2	78.1	111	93	91	21.8	76	67	49	4.0
ASGROW A110	M	98.6	55.8	118	67	100	21.9	81	68	48	3.6
ASGROW ASC112	ML	85.8	87.0	103	104	91	20.9	68	68	48	4.1
ASGROW A120	L	94.8	84.7	113	101	98	19.8	70	68	53	4.0
ASGROW A200B	L	73.2	64.2	87	77	96	23.2	63	69	50	4.1
ASGROW A202	L	75.5	76.4	90	91	98	22.6	77	70	54	4.1
CRIBFILLER 123	M	85.3	71.4	102	85	92	21.8	76	68	53	3.9
CRIBFILLER 66	ML	94.9	84.4	113	101	100	22.3	73	68	48	4.2
CRIBFILLER 88	ML	103.6	87.3	124	104	99	19.8	58	67	45	3.7
CRIBFILLER 128	ML	76.7	70.4	92	84	99	21.5	73	69	49	3.7
DEKALB XL342	VE	94.3	79.5	113	95	95	20.0	72	65	46	4.3
DEKALB XL346	ME	85.7	75.9	102	91	93	18.8	84	64	44	4.0
DEKALB 624	ME	104.4	76.6	125	92	102	21.1	75	67	49	4.2
DEKALB XL65A	M	81.3	67.0	97	80	99	19.6	78	66	48	4.0
DEKALB 805A	M	95.8	70.4	114	84	98	21.7	56	67	46	4.0
DEKALB 872	M	82.6	73.0	99	87	95	21.4	83	69	49	3.7
DEKALB XL369	M	109.8	74.6	131	89	99	19.5	81	69	48	3.9
DEKALB XL385	ML	90.5	70.2	108	84	101	23.2	79	69	55	4.2
FUNK G96	M	87.8	83.1	105	99	94	19.8	74	67	48	3.6
FUNK G4601	M	92.4	88.7	110	106	97	23.0	75	68	52	4.0
FUNK G4644	M	98.5	89.8	118	107	102	21.9	76	68	51	4.2
FUNK G4703	M	99.2	83.6	119	100	96	22.8	57	68	50	3.8
FUNK G146	ML	90.6	76.4	108	91	100	21.3	54	68	49	4.1
FUNK G4697	ML	92.0	85.9	110	103	95	21.7	63	67	49	4.2
FUNK G5757	ML	86.1	75.0	103	90	98	23.2	74	69	50	3.8
HOFMEYER H404	E	87.2	70.0	104	84	94	19.0	71	65	47	3.7
HOFMEYER H55	M	93.7	69.6	112	83	100	20.9	54	68	50	3.7
HOFMEYER H505	M	90.5	68.3	108	82	97	21.5	71	68	51	3.8
HOFMEYER 600W	ML	87.5	74.5	105	89	96	21.2	66	69	47	4.2
HOFMEYERBINBUSTER	ML	82.2	66.4	98	79	96	21.3	74	68	48	3.9
MCNAIR 198	M	79.2	69.7	95	83	95	20.8	84	68	48	3.7
MEAN		91.4	76.0	109	91	97	21.4	69	68	49	3.9
MCNAIR X202	ML	108.9	73.2	130	87	100	23.0	75	68	49	4.0
MCNAIR 225W	L	79.3	62.4	95	75	95	23.4	79	70	52	3.9
MCNAIR 340V	L	69.4	61.5	83	73	100	25.1	79	73	53	4.0
MUNCYCHIEF SX880	M	87.1	83.5	104	100	93	21.6	65	67	50	4.3
N-KING PX52	E	85.6	76.1	102	91	93	17.6	68	61	40	3.4
N-KING PX610	M	109.2	96.1	130	115	98	19.9	61	64	46	4.1
N-KING PX616	M	100.8	85.3	120	102	101	21.2	69	66	50	3.9
N-KING KT626	M	97.6	75.6	117	90	92	20.3	75	67	50	4.0
N-KING PX676	M	82.3	63.1	98	75	99	19.8	58	68	47	3.6
N-KING PX674	ML	75.9	72.5	91	87	98	21.5	73	69	48	3.8
PIONEER 3306	M	118.1	78.4	141	94	99	21.0	80	69	54	4.1
PIONEER 511(W)	L	76.1	74.6	91	89	94	23.1	65	74	51	4.0
PIONEER 3059	L	80.7	67.7	96	81	97	25.1	50	76	51	3.9
SS POCAHONTAS	E	80.3	73.1	96	87	95	20.2	66	68	49	3.6
SS EXP D1186	E	86.5	85.6	103	102	96	19.8	68	65	52	3.9
SS 820S	M	88.2	77.7	105	93	100	20.7	65	69	47	3.4
SS 860	ML	84.3	67.5	101	81	95	22.0	69	69	50	3.6
SS CATANBA	L	84.4	64.4	101	77	99	22.6	53	69	52	3.7
TE 6415	ME	106.5	94.3	127	113	93	19.1	58	64	45	3.7
TE E20YB	M	99.3	67.2	119	80	100	20.4	65	68	51	4.0
TE SX20Y	M	89.7	85.9	107	103	99	21.3	55	68	48	3.7
TE E20YA	M	101.4	68.9	121	82	101	21.2	77	68	51	4.1
TE CROPMASER	M	91.8	65.4	110	78	92	21.5	71	69	51	3.8
TE DOLLARMAKER	M	95.2	76.9	114	92	98	19.8	66	68	48	4.0
TE CASHMAKER	M	98.7	88.0	118	105	100	20.0	66	66	42	3.9
TE MINTMAKER	ML	103.1	82.5	123	99	99	21.6	69	67	48	4.0
TODD 92A	M	104.4	88.4	125	106	86	19.4	85	66	48	4.2
TODD 92B	L	92.6	78.3	111	94	81	22.4	78	68	49	4.2
VPI 648	M	88.6	64.3	106	77	91	23.3	71	68	48	3.6
VA28 x VE58	ML	115.5	76.5	138	91	101	24.5	26	68	51	4.5
VA 446	L	92.3	86.1	110	103	100	22.8	64	69	50	4.2

THESE YIELDS NOT SIGN. DIFFERENT

100.8-	75.0-	120-	90-
118.1	96.1	141	115

COOPERATOR: H. M. CAMPER, EASTERN VA. RESEARCH STATION, WARSAW
 DATE PLANTED: MAY 11. DATE HARVESTED: SEPTEMBER 26-28.
 PLOT SIZE: 2 ROWS, 36" X 18'
 FERTILIZER BEFORE PLANTING: 80-125-125/ACRE
 FERTILIZER SIDEDRESSED: 87 LBS. N/ACRE
 GROWING CONDITIONS: RAINFALL WAS 5.47" BELOW NORMAL FOR MAY THROUGH AUGUST

TABLE 8. CORN PERFORMANCE, WARSAW, VA., 1965-66

		YIELD BU/A		RELATIVE YIELD		PCT	PCT	DAYS TO SILK	EAR HT. IN.	QUALITY
		R1	R2	R1	R2	WATER	ERECT			
ASGROW A110	M	116.0	99.6	96	83	21.3	89	68	44	3.9
CRIBFILLER 66	ML	136.8	132.6	113	110	21.4	84	68	46	4.6
CRIBFILLER 123	M	115.4	117.9	96	98	20.8	86	67	52	4.3
DEKALB XL346	ME	106.3	98.0	88	81	18.9	91	63	39	4.2
DEKALB 624	ME	116.6	115.4	97	96	20.1	85	67	46	4.4
HOFMEYER H505	M	107.5	101.1	89	84	20.3	81	67	45	4.1
HOFMEYER H55	M	124.0	114.3	103	95	20.3	76	68	44	4.1
HOFMEYERBINBUSTER	ML	114.9	119.8	95	99	20.7	81	68	47	4.4
MCNAIR X202	ML	142.2	137.0	118	114	21.6	87	68	49	4.5
MCNAIR 198	M	103.4	104.3	86	86	19.2	91	67	44	4.0
MCNAIR 225W	L	124.4	128.1	103	106	22.4	86	70	52	4.3
MUNCYCHIEF SX880	M	108.3	128.5	90	106	20.2	78	67	47	4.6
MEAN		121.1	120.2	100	100	20.7	81	68	47	4.2
N-KING PX610	M	119.1	119.7	99	99	19.3	79	65	42	4.3
N-KING PX616	M	115.8	120.9	96	100	20.1	84	66	48	4.3
N-KING KT626	M	124.4	113.2	103	94	19.4	86	67	46	4.2
PIONEER 3306	M	143.2	131.6	119	109	20.9	89	69	51	4.3
PIONEER 511(W)	L	131.0	139.5	109	116	22.3	76	73	52	4.3
PIONEER 3059	L	134.4	132.7	111	110	24.3	72	75	53	4.2
SS POCAHONTAS	E	109.4	115.1	91	95	19.0	76	68	46	3.9
SS 860	ML	123.6	126.1	102	104	20.5	79	69	51	4.2
SS 820S	M	126.3	131.1	105	109	20.2	82	68	45	4.1
SS CATAWBA	L	116.1	110.5	96	92	21.6	68	69	50	4.1
TE SX20Y	M	116.7	130.1	97	108	20.5	75	68	47	4.2
TE E20YB	M	125.6	117.9	104	98	20.3	80	68	49	4.4
TE E20YA	M	116.5	112.6	97	93	20.2	88	67	47	4.3
TE CROPMASTER	M	124.5	112.7	103	93	20.4	84	68	47	4.3
VPI 648	M	119.7	119.9	99	99	21.6	81	68	48	4.1
VA 446	L	129.6	137.1	107	114	22.6	74	69	48	4.5

TABLE 9. CORN PERFORMANCE, WARSAW, VA., 1964-65-66

		YIELD BU/A		RELATIVE YIELD		PCT	DAYS TO SILK	EAR HT. IN.	QUALITY
		R1	R2	R1	R2	WATER			
CRIBFILLER 66	ML	130.8	128.1	110	108	21.9	68	45	4.7
HOFMEYER H55	M	122.6	118.4	103	100	20.7	68	43	4.3
HOFMEYER H505	M	107.2	106.1	90	89	20.7	67	43	4.3
HOFMEYERBINBUSTER	ML	111.0	116.1	93	98	21.2	69	45	4.4
MUNCYCHIEF SX880	M	111.8	124.3	94	105	21.1	67	46	4.7
MEAN		118.1	119.4	99	101	21.2	68	45	4.3
PIONEER 3306	M	134.8	129.9	113	109	21.3	69	49	4.4
SS 820S	M	118.7	124.3	100	105	20.4	68	43	4.2
SS CATAWBA	L	114.4	110.8	96	93	22.0	69	47	4.1
SS 860	ML	116.3	123.3	98	104	21.0	69	47	4.1
TE E20YA	M	113.5	114.3	96	96	20.9	67	45	4.4
VPI 648	M	117.8	118.1	99	99	21.9	68	47	4.2

TABLE 10. CORN PERFORMANCE, CHARLOTTE C. H., VA., 1966

HYBRID	MATU- RITY	YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
		R1	R2	R1	R2						
ASGROW ATC89	ME	97.2	108.3	88	98	96	17.5	94	60	44	3.1
ASGROW ASC95	M	91.2	120.0	83	109	90	19.0	93	60	50	3.3
ASGROW A110	M	92.1	104.6	84	95	94	21.1	98	61	50	3.3
ASGROW A112	ML	102.7	123.9	93	113	95	20.4	92	59	52	3.3
ASGROW A116	L	94.9	137.0	86	124	98	18.6	94	61	50	3.5
ASGROW A120	L	116.3	131.9	106	120	98	17.7	96	60	47	3.4
ASGROW A200B	L	99.2	89.0	90	81	93	19.7	86	61	47	3.4
ASGROW A202	L	99.4	125.4	90	114	92	19.9	96	62	53	4.0
DEKALB XL342	VE	99.2	123.1	90	112	97	17.3	97	58	46	3.5
DEKALB XL346	ME	78.6	101.0	71	92	96	16.9	96	58	42	2.6
DEKALB 805A	M	102.6	113.0	93	103	98	18.7	85	60	50	3.1
DEKALB 872	M	108.9	119.6	99	109	97	19.1	99	60	49	3.8
DEKALB XL385	ML	104.3	121.1	95	110	96	19.0	99	61	53	3.4
DEKALB XL390W	L	116.6	141.3	106	128	96	21.9	91	61	49	4.1
DEKALB 999	L	81.3	102.9	74	93	95	19.2	92	62	49	3.8
DEKALB 1006	L	119.2	149.0	108	135	95	20.4	92	65	60	4.1
HOFMEYER H55	M	103.2	118.2	94	107	96	18.9	86	59	55	2.9
HOFMEYERBINBUSTER	ML	104.0	112.0	94	102	94	20.4	91	60	50	3.9
HOFMEYER H601	L	103.2	129.1	94	117	96	19.7	96	61	59	3.8
MCNAIR 198	M	96.2	108.6	87	99	91	18.4	96	60	48	3.3
MCNAIR X202	ML	103.1	122.3	94	111	93	19.3	93	59	50	3.8
MCNAIR 225W	L	71.1	101.3	65	92	90	20.0	93	62	50	3.9
MCNAIR 340V	L	93.5	135.9	85	123	96	24.6	94	62	51	4.0
VA 446	L	106.5	125.8	97	114	91	18.6	94	60	49	3.8
MUNCYCHIEF SX880	M	99.9	122.8	91	112	86	19.3	95	60	50	3.1
MUNCYCHIEF H750	ML	79.5	112.8	72	102	93	19.1	98	59	46	3.0
MUNCYCHIEF H780	M	90.0	103.8	82	94	94	17.2	94	60	47	2.9
N-KING PX52	E	63.2	84.4	57	77	99	16.3	90	57	37	1.3
N-KING PX610	M	111.8	126.7	102	115	90	18.3	95	58	45	3.6
N-KING PX616	M	102.4	126.6	93	115	95	18.7	98	59	46	4.0
N-KING KT626	M	99.9	117.7	91	107	92	17.8	97	60	49	3.5
N-KING PX676	M	95.1	114.4	86	104	94	17.7	88	59	48	2.7
N-KING PX674	ML	84.2	116.0	76	105	93	18.6	94	60	46	3.2
MEAN		99.5	120.7	90	110	95	19.5	93	60	48	3.5
PIONEER 3306	M	107.0	119.8	97	109	95	21.5	100	61	49	3.3
PIONEER 310	ML	97.2	131.4	88	119	93	19.4	93	61	46	3.8
PIONEER 3059	L	119.2	146.0	108	133	97	23.8	98	65	49	4.4
SS 820S	M	89.2	128.5	81	117	94	18.6	87	61	53	3.0
SS 866	M	98.4	142.6	89	130	91	19.2	96	60	49	3.5
SS 860	ML	111.2	120.6	101	110	90	18.7	88	61	52	3.3
SS CATAWBA	L	111.8	120.5	102	109	97	18.8	83	61	49	3.3
SS 979	VL	93.0	138.1	84	125	99	20.1	89	61	54	3.7
TE 6415	ME	101.1	109.8	92	100	92	17.6	93	58	42	2.9
TE E20YB	M	113.3	131.5	103	119	97	18.4	94	60	49	3.9
TE SX20Y	M	104.0	110.2	94	100	96	18.8	89	60	50	3.1
TE E20YA	M	97.1	109.0	88	99	97	19.6	91	60	50	3.5
TE CROPMMASTER	M	93.9	129.2	85	117	96	19.4	96	61	52	3.5
TE DOLLARMAKER	M	96.7	118.0	88	107	94	18.9	90	58	47	3.5
TE CASHMAKER	M	88.4	113.0	80	103	95	18.6	96	58	42	2.8
TE MINTMAKER	ML	95.7	137.3	87	125	93	18.8	97	60	44	3.9
THOMPSON SC220	ME	102.3	115.9	93	105	96	18.7	91	59	52	2.2
THOMPSON 101	M	95.8	114.0	87	104	97	20.1	92	60	49	3.8
THOMPSON 219	M	108.3	128.4	98	117	99	19.9	89	59	48	3.7
VPI 648	M	93.8	102.5	85	93	92	20.7	94	60	47	3.9
VA 219	M	108.1	118.5	98	108	98	21.0	95	60	50	3.5
VA 326	M	83.3	116.5	76	106	93	20.1	94	60	43	3.2
VA 368	M	101.4	106.8	92	97	98	18.8	95	59	44	3.6
VA 369	M	112.2	137.8	102	125	96	18.4	95	59	51	3.8
VA 426	M	114.0	122.0	104	111	97	19.9	94	61	47	3.8
VA28 X VE58	ML	118.5	126.4	108	115	93	22.2	97	61	49	4.5
VA 365	ML	77.4	120.9	70	110	89	21.0	97	59	45	3.8
VA 423	ML	101.8	122.2	92	111	98	19.8	97	59	46	3.7
VA 376	ML	107.8	133.8	98	122	100	19.9	96	61	49	4.2
VA29 X VE58	L	114.5	151.5	104	138	94	24.0	76	62	50	3.8
WATSON 430	L	98.6	115.1	90	105	92	22.4	99	62	49	3.7

THESE YIELDS NOT
SIGN. DIFFERENT

93.0- 123.9- 84- 113-
119.2 151.5 108 138

COOPERATOR: R. D. SEARS, SOUTHSIDE RESEARCH STATION, CHARLOTTE C. H.
DATE PLANTED: MAY 15. DATE HARVESTED: OCTOBER 10.
PLOT SIZE: 2 ROWS, 36" X 18'
FERTILIZER BEFORE PLANTING: 150-150-150/ACRE
FERTILIZER SIDEDRESSED: 60 LBS. N/ACRE
PLANTS PER ACRE FOR PERFECT STAND: R1=14,000; R2=20,000
GROWING CONDITIONS: DROUGHT FROM JUNE 11 THROUGH JULY. CORN WAS
IRRIGATED BUT THE FIRST IRRIGATION WAS APPLIED
TOO LATE FOR MAXIMUM BENEFITS.

TABLE 11. CORN PERFORMANCE, CHARLOTTE C. H., 1965-66

		YIELD BU/A		RELATIVE				DAYS TO SILK	EAR HT. IN.	QUALITY
		R1	R2	YIELD		PCT WATER	PCT ERECT			
				R1	R2					
ASGROW A110	M	94.4	104.4	86	95	24.2	94	62	48	1.7
DEKALB XL346	ME	82.4	97.9	75	89	21.0	98	58	40	1.3
DEKALB XL385	ML	100.9	121.3	92	110	23.2	97	63	49	1.7
DEKALB 1006	L	109.0	136.4	99	124	24.7	90	67	57	2.1
HOFMEYERBINBUSTER	ML	98.0	111.8	89	102	23.2	88	62	48	2.0
HOFMEYER H55	M	107.2	125.8	98	114	22.2	90	61	50	1.5
MCNAIR 198	M	92.0	107.2	84	98	21.2	96	61	44	1.7
HOFMEYER H601	L	99.5	125.1	91	114	23.3	90	63	56	1.9
MCNAIR 225W	L	88.0	108.8	80	99	23.7	90	64	50	2.0
MCNAIR X202	ML	106.5	126.2	97	115	23.4	90	61	48	1.9
VA 446	L	112.3	129.8	102	118	24.0	88	63	48	1.9
MUNCYCHIEF H750	ML	87.5	109.3	80	99	22.6	94	61	42	1.5
MUNCYCHIEF SX880	M	101.6	119.3	92	109	22.6	95	61	48	1.6
MUNCYCHIEF H780	M	95.1	114.9	87	105	21.2	87	61	44	1.5
N-KING PX616	M	95.6	117.0	87	106	21.6	93	61	45	2.0
N-KING PX610	M	103.2	117.7	94	107	21.2	95	60	42	1.8
N-KING KT626	M	97.4	119.7	89	109	21.5	93	61	48	1.8
MEAN		100.8	119.0	92	108	22.9	92	62	48	1.8
PIONEER 3306	M	105.1	119.9	96	109	23.8	99	62	48	1.7
PIONEER 3059	L	114.9	146.9	105	134	27.2	92	67	49	2.2
PIONEER 310	ML	108.2	125.1	98	114	22.9	91	63	47	1.9
SS 820S	M	101.6	122.2	92	111	22.6	87	62	48	1.5
SS CATAWBA	L	106.6	110.1	97	100	22.6	87	62	47	1.7
SS 860	ML	106.1	119.4	97	109	21.8	91	62	51	1.7
SS 979	VL	98.1	129.4	89	118	23.8	89	63	53	1.9
TE SX20Y	M	104.3	118.5	95	108	22.5	88	62	49	1.6
TE E20YB	M	103.0	127.0	94	116	22.1	93	62	47	2.0
TE E20YA	M	99.5	111.1	91	101	23.5	91	61	48	1.8
TE CROPMASER	M	102.0	122.8	93	112	22.3	93	62	48	1.8
VPI 648	M	98.1	112.6	89	102	23.4	93	61	47	2.0
VA 426	M	108.0	116.4	98	106	23.6	96	62	45	1.9
VA 423	ML	100.1	115.5	91	105	23.6	97	60	45	1.9

TABLE 12. CORN PERFORMANCE, CHARLOTTE C. H., 1964-65-66

		YIELD BU/A		RELATIVE				DAYS TO SILK
		R1	R2	YIELD		PCT WATER		
				R1	R2			
HOFMEYER H55	M	86.9	96.9	99	111	23.3	65	
HOFMEYERBINBUSTER	ML	79.9	86.7	91	99	24.6	66	
HOFMEYER H601	L	80.5	98.5	92	112	24.7	67	
MUNCYCHIEF SX880	M	81.9	92.5	93	106	23.4	65	
MUNCYCHIEF H780	M	77.6	88.5	89	101	22.7	64	
PIONEER 3306	M	87.6	96.9	100	111	24.3	65	
MEAN		81.9	93.3	93	107	23.9	66	
PIONEER 310	ML	84.4	100.4	96	115	24.1	67	
SS 820S	M	81.8	93.6	93	107	23.6	65	
SS CATAWBA	L	82.3	87.3	94	100	23.8	66	
SS 860	ML	84.4	94.4	96	108	22.6	67	
SS 979	VL	78.6	100.6	90	115	24.8	67	
TE E20YA	M	80.6	89.0	92	102	24.2	64	
VPI 648	M	78.1	87.7	89	100	24.4	65	

TABLE 13. CORN PERFORMANCE, ORANGE, VA., 1966

HYBRID	MATU- RITY	YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY	NO. OF EARS
		R1	R2	R1	R2							
ASGROW ASC61	M	106.5	103.9	97	94	89	20.3	96	63	38	3.5	99
ASGROW ATC89	ME	120.9	91.5	110	83	96	22.8	98	68	41	3.3	91
ASGROW ATC93	M	106.4	106.5	97	97	90	22.2	92	70	38	3.5	91
ASGROW ASC95	M	107.5	104.2	98	95	88	24.1	92	71	39	3.0	97
ASGROW A110	M	96.5	99.7	88	90	89	24.8	92	72	41	2.5	88
ASGROW ASC112	ML	123.0	121.5	112	110	98	23.7	97	71	42	4.3	91
ASGROW A120	L	122.4	131.7	111	120	93	23.6	97	70	42	4.8	94
ASGROW A202	L	89.3	97.2	81	88	92	25.6	95	72	42	4.3	86
CRIBFILLER 116	ME	103.6	108.6	94	99	89	23.9	93	70	44	3.8	91
CRIBFILLER 66	ML	134.4	113.8	122	103	94	24.0	96	70	41	4.3	91
DEKALB XL342	VE	120.6	106.7	109	97	93	22.9	92	68	41	4.5	97
DEKALB XL45	E	115.4	118.5	105	108	89	20.7	94	64	33	3.8	97
DEKALB XL346	ME	95.7	104.8	87	95	85	22.6	98	67	39	4.0	93
DEKALB XL65A	M	98.3	114.6	89	104	95	24.0	97	68	42	4.3	94
DEKALB XL362	M	114.2	97.5	104	88	95	23.7	95	67	38	3.5	90
DEKALB 805A	M	106.2	107.7	96	98	91	22.6	96	70	39	4.3	91
DEKALB 872	M	93.4	125.8	85	114	89	23.1	97	71	41	4.5	95
DEKALB XL385	ML	123.6	137.3	112	125	95	24.3	98	72	47	3.5	100
FUNK G96	M	126.1	123.6	114	112	89	22.1	94	69	38	3.8	97
FUNK G4601	M	117.9	123.4	107	112	91	24.4	95	71	41	4.5	101
FUNK G4644	M	149.1	115.6	135	105	97	23.3	96	71	45	4.8	96
FUNK G4703	M	99.0	104.9	90	95	93	24.0	96	72	39	2.5	92
FUNK G4697	ML	146.5	121.3	133	110	95	24.3	97	70	42	4.8	95
FUNK G5757	ML	126.4	134.4	115	122	93	26.0	99	71	44	4.8	99
HOFMEYER H55	M	107.3	108.4	97	98	96	22.0	94	72	41	2.8	90
HOFMEYERBINBUSTER	ML	98.4	90.7	89	82	93	23.6	93	72	41	4.0	82
HOFMEYER H601	L	130.7	102.1	119	93	87	24.9	94	73	45	4.8	94
MCNAIR 198	M	111.5	114.2	101	104	88	23.2	98	71	41	3.8	90
MCNAIR X202	ML	104.6	129.3	95	117	94	23.5	95	71	41	4.5	84
MCNAIR 225W	L	109.2	91.4	99	83	88	24.2	94	75	44	5.0	85
MUNCYCHIEF H740	M	97.3	109.4	88	99	92	22.2	94	68	41	3.5	88
MUNCYCHIEF H850	M	101.6	84.9	92	77	94	21.1	97	71	41	2.3	95
N-KING PX52	E	106.3	109.8	96	100	95	18.8	93	65	38	3.0	90
MEAN		112.3	108.0	102	98	91	23.3	95	70	41	3.8	92
N-KING PX610	M	113.4	106.5	103	97	92	22.5	87	68	41	3.8	96
N-KING PX616	M	115.1	129.0	104	117	96	22.4	90	69	39	4.5	88
N-KING KT626	M	110.4	104.7	100	95	87	22.7	93	70	39	3.8	93
N-KING PX676	M	112.2	99.9	102	91	92	23.7	96	71	41	2.5	88
N-KING PX674	ML	97.3	100.2	88	91	88	22.9	96	71	36	3.5	90
PIONEER 3306	M	124.2	126.2	113	115	94	23.1	96	74	42	4.0	94
PIONEER 309A	L	98.7	109.1	90	99	77	27.1	95	77	45	4.3	99
SS EXP D1186	E	113.6	124.3	103	113	92	22.6	98	67	44	3.8	96
SS 820S	M	124.6	126.6	113	115	92	23.1	96	68	41	4.3	93
SS 755	ML	102.6	86.0	93	78	89	22.7	92	69	39	4.0	88
SS 860	ML	101.9	109.0	92	99	90	23.2	97	73	41	3.5	92
SS MOTOAKA	ML	109.4	101.4	99	92	94	22.4	92	69	41	4.5	89
SS 909E	L	115.3	106.4	105	97	89	25.5	96	77	47	3.8	97
SS CATAWBA	L	116.1	77.5	105	70	93	23.8	72	72	41	3.5	91
TE 6415	ME	112.4	111.2	102	101	91	21.8	92	68	35	3.3	91
TE E20Y8	M	141.8	135.5	129	123	93	23.5	98	71	44	4.0	97
TE SX20Y	M	121.4	107.3	110	97	93	23.2	99	70	44	3.8	90
TE E20YA	M	133.9	109.9	122	100	92	23.1	93	71	41	3.8	88
TE CROPMASER	M	93.4	107.5	85	98	93	23.1	93	73	42	2.8	86
TE DOLLARMAKER	M	112.7	85.3	102	77	96	24.4	96	70	41	4.5	90
TE CASHMAKER	M	125.3	102.3	114	93	91	22.8	96	68	41	4.0	94
TE MINTMAKER	ML	101.0	115.6	92	105	90	22.7	93	71	41	3.0	92
THOMPSON SC220	ME	100.3	94.6	91	86	92	23.1	97	70	42	2.3	86
THOMPSON 101	M	116.9	91.2	106	83	98	23.8	96	71	41	3.3	87
THOMPSON 219	M	94.5	114.4	86	104	95	23.6	90	71	41	4.0	94
TODD 92A	M	90.3	112.7	82	102	81	22.1	100	71	41	4.8	92
TODD 862	L	86.8	99.2	79	90	84	24.2	93	71	44	4.2	85
TODD 92B	L	118.4	64.7	107	59	77	23.1	99	71	39	3.5	89
VPI 648	M	112.2	82.5	102	75	92	23.6	92	72	38	3.5	82
ROSS EXP.		113.0	112.7	103	102	92	23.9	86	67	38	4.8	95
VA28 X VE58	ML	149.9	106.1	136	96	95	25.3	92	73	36	4.8	97

THESE YIELDS NOT SIGN. DIFFERENT 115.1- N.S. 104- N.S. 149.9 136

COOPERATOR: G. D. JONES, NORTHERN PIEDMONT RESEARCH STATION, ORANGE
 DATE PLANTED: MAY 10. DATE HARVESTED: OCTOBER 6 - 7.
 PLOT SIZE: 2 ROWS, 36" X 16'
 FERTILIZER APPLIED: 150-100-100/ACRE ALL BEFORE PLANTING
 PLANTS PER ACRE FOR PERFECT STAND: R1=16,000; R2=22,000
 GROWING CONDITIONS: WET DURING MAY, BELOW NORMAL RAINFALL DURING JUNE AND JULY, AND DRY DURING AUGUST.

TABLE 14. CORN PERFORMANCE, ORANGE, VA., 1965-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	PCT ERECT	DAYS TO SILK	EAR TO HT. IN.	QUALITY	NO. OF EARS
		R1	R2	R1	R2						
ASGROW A110	M	123.8	135.7	93	102	23.9	94	72	43	3.6	94
CRIBFILLER 66	ML	146.8	133.8	110	101	23.8	89	71	42	4.6	94
CRIBFILLER 116	ME	128.0	139.1	96	105	22.7	91	71	44	4.1	98
DEKALB XL45	E	116.0	123.0	87	93	21.0	94	66	33	4.3	98
DEKALB XL385	ML	151.6	156.9	114	118	24.3	98	73	46	4.3	102
HOFMEYER H55	M	133.3	134.5	100	101	21.9	94	72	41	3.7	92
HOFMEYERBINBUSTER	ML	123.8	118.5	93	89	22.4	90	72	41	4.3	90
HOFMEYER H601	L	140.2	138.8	105	104	24.1	92	74	48	4.7	98
MCNAIR 198	M	122.2	135.0	92	102	22.4	98	71	40	4.3	95
MCNAIR 225W	L	124.6	146.5	94	110	23.6	95	75	44	5.0	90
MUNCYCHIEF H850	M	125.9	118.6	95	89	21.7	96	72	41	3.4	97
MUNCYCHIEF H740	M	123.9	132.0	93	99	22.1	93	69	39	4.1	94
N-KING PX610	M	130.6	128.6	98	97	22.6	93	69	39	4.4	99
N-KING PX616	M	136.0	147.4	102	111	22.1	94	70	41	4.7	97
N-KING KT626	M	135.8	134.8	102	101	22.3	89	70	39	4.2	99
MEAN		131.4	134.4	99	101	22.9	91	71	42	4.2	96
PIONEER 309A	L	128.9	147.8	97	111	26.6	93	77	48	4.6	104
SS 820S	M	143.8	151.1	108	114	22.5	92	70	43	4.6	96
SS 860	ML	134.1	135.4	101	102	23.1	96	73	43	4.2	96
SS 755	ML	124.9	108.0	94	81	21.7	86	69	39	4.4	92
SS 909E	L	142.3	148.2	107	112	24.5	88	76	49	4.2	103
SS MOTOAKA	ML	132.1	134.1	99	101	22.7	83	71	42	4.6	97
SS CATAWBA	L	136.1	125.1	102	94	23.8	68	73	39	4.1	100
TE SX20Y	M	143.8	132.9	108	100	23.0	95	71	42	4.4	96
TE E20YB	M	139.0	151.3	105	114	23.0	94	71	43	4.5	98
TE E20YA	M	146.7	145.6	110	110	22.8	94	71	42	4.4	95
TE CROPMASTER	M	123.8	140.3	93	106	22.6	94	72	41	3.9	93
THOMPSON SC220	ME	119.9	115.7	90	87	21.5	96	71	41	3.5	91
THOMPSON 219	M	123.3	139.1	93	105	22.9	89	72	41	4.4	97
THOMPSON 101	M	126.3	123.0	95	93	22.9	90	71	43	4.1	94
TODD 862	L	116.1	123.1	87	93	23.9	94	72	43	4.7	90
VPI 648	M	129.2	123.7	97	93	22.6	85	73	41	4.2	92

TABLE 15. CORN PERFORMANCE, ORANGE, VA., 1964-65-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	DAYS TO SILK	EAR TO HT. IN.	QUALITY
		R1	R2	R1	R2				
CRIBFILLER 66	ML	140.4	134.4	111	106	24.0	73	41	4.4
CRIBFILLER 116	ME	122.6	133.8	97	106	22.2	72	42	4.2
MUNCYCHIEF H740	M	120.4	131.9	95	105	21.3	70	39	4.0
SS 755	ML	115.4	109.9	91	87	21.1	71	37	4.0
SS 820S	M	141.5	141.5	112	112	22.1	70	42	4.5
MEAN		124.9	127.4	99	101	22.6	72	40	4.2
SS 860	ML	120.0	126.6	95	100	24.0	74	41	4.1
SS MOTOAKA	ML	128.0	132.9	101	105	22.5	72	40	4.5
TE SX20Y	M	132.2	121.7	105	96	22.3	71	40	4.4
TE E20YA	M	126.3	139.9	100	111	22.9	72	40	4.4
THOMPSON 101	M	118.4	114.4	94	91	23.0	72	41	4.0
THOMPSON 219	M	116.6	131.1	92	104	23.3	73	40	4.2
THOMPSON SC220	ME	114.6	113.2	91	90	22.1	72	40	3.5
VPI 648	M	128.0	125.0	101	99	22.8	73	40	4.0

TABLE 16. CORN PERFORMANCE, EMORY, VA., 1966

HYBRID	MATU- RITY	YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	PCT ERECT	EAR HT. IN.	QUAL- ITY
		R1	R2	R1	R2					
ASGROW ASC112	ML	106.1	119.9	86	98	90	22.1	51	41	2.3
ASGROW ASC95	M	128.9	135.4	105	110	92	22.3	66	50	2.9
ASGROW A100	M	106.4	121.8	87	99	88	22.2	56	45	2.9
ASGROW A110	M	110.7	116.8	90	95	84	22.3	73	39	2.6
ASGROW ASC112	ML	124.1	132.3	101	108	95	22.5	51	45	3.1
ASGROW A116	L	123.1	130.3	100	106	89	23.0	69	48	3.1
ASGROW A120	L	116.5	121.6	95	99	83	22.4	66	48	2.5
ASGROW A202	L	100.5	92.9	82	76	88	23.8	71	45	2.5
DEKALB XL342	VE	108.2	116.8	88	95	90	21.7	72	45	3.4
DEKALB XL346	ME	113.5	126.5	92	103	90	22.0	83	41	2.9
DEKALB 624	ME	131.6	121.6	107	99	85	21.5	74	44	3.0
DEKALB XL65A	M	107.6	129.3	88	105	95	22.0	92	50	2.8
DEKALB XL362	M	105.3	117.8	86	96	88	23.3	68	44	2.4
DEKALB 805A	M	110.8	129.7	90	106	81	21.9	58	48	2.9
DEKALB 872	M	115.2	129.6	94	106	84	22.3	65	48	2.9
DEKALB XL369	M	129.9	152.1	106	124	103	21.8	80	41	4.1
DEKALB XL385	ML	116.4	113.4	95	92	94	21.6	77	51	3.0
DEKALB XL390W	L	135.2	140.0	110	114	87	24.1	58	51	3.4
HOFMEYER H55	M	122.8	135.0	100	110	77	21.2	53	50	3.0
HOLLYVIEW 160	M	128.8	132.8	105	108	91	22.4	71	59	3.1
MCNAIR 198	M	122.5	119.2	100	97	81	21.9	78	45	2.9
MCNAIR X202	ML	137.8	133.6	112	109	87	23.2	58	50	3.6
MCNAIR 225W	L	107.6	113.0	88	92	82	22.8	73	48	3.6
MUNCYCHIEF SX550	E	115.6	105.2	94	86	95	20.3	83	39	1.8
MUNCYCHIEF H720	E	110.9	104.8	90	85	87	21.5	56	45	2.1
MUNCYCHIEF SX770	M	115.6	135.9	94	111	83	20.7	68	45	3.6
MUNCYCHIEF SX880	M	117.4	116.9	96	95	78	22.2	39	48	2.8
MUNCYCHIEF H740	M	113.4	117.5	92	96	83	21.8	67	45	2.1
N-KING PX52	E	95.9	104.1	78	85	86	20.9	74	38	1.8
N-KING PX610	M	118.8	122.5	97	100	86	21.1	77	51	2.9
N-KING PX616	M	136.5	108.5	111	88	88	21.3	71	50	3.6
N-KING KT626	M	118.9	124.4	97	101	87	22.0	53	47	2.9
N-KING PX676	M	126.8	124.1	103	101	88	23.6	70	48	2.8
MEAN		120.5	125.1	98	102	88	22.5	67	46	2.9
N-KING PX674	ML	111.6	124.3	91	101	89	23.6	65	47	3.5
PIONEER 345A	E	144.5	130.9	118	107	89	22.0	76	41	2.8
PIONEER 3369	ME	117.5	130.3	96	106	91	20.1	55	39	3.9
PIONEER 310	ML	136.4	144.0	111	117	86	22.3	69	47	3.8
STULL 101YB	M	136.4	138.2	111	113	89	22.5	71	47	2.8
STULL 400WA	M	120.4	115.5	98	94	84	23.8	60	50	3.1
STULL 807SX	M	135.3	137.4	110	112	90	23.6	53	53	4.0
STULL 100YM	ML	120.9	120.8	98	98	89	22.1	62	51	2.3
SS EXP D1186	E	106.8	135.3	87	110	93	20.9	81	47	2.3
SS 820S	M	124.5	122.4	101	100	93	22.3	40	50	3.0
SS 755	ML	112.1	111.1	91	90	90	23.6	73	47	3.0
SS 860	ML	135.6	131.1	110	107	86	22.7	70	57	3.1
SS MOTOAKA	ML	109.2	134.2	89	109	88	22.3	67	50	2.0
TE 6415	ME	93.5	120.8	76	98	79	20.6	63	39	2.6
TE E20YB	M	128.5	128.5	105	105	86	22.1	57	48	3.4
TE SX20Y	M	124.1	124.4	101	101	88	22.1	67	48	3.6
TE E20YA	M	119.6	126.6	97	103	91	23.1	54	42	2.8
TE CROPMASTER	M	127.9	109.2	104	89	86	22.3	54	47	2.6
TE DOLLARMAKER	M	98.2	119.3	80	97	85	22.0	70	50	2.5
TE CASHMAKER	M	118.0	123.0	96	100	86	21.4	81	41	3.0
TE MINTMAKER	ML	116.8	136.0	95	111	90	21.4	39	45	3.1
VPI 646	M	116.3	122.8	95	100	89	21.7	50	42	2.6
VPI 648	M	120.7	132.0	98	107	95	24.0	82	48	2.3
VA 326	M	119.3	136.3	97	111	90	26.5	87	44	2.8
VA 369	M	135.5	136.5	110	111	95	21.6	52	50	3.6
VA 426	M	104.1	127.2	85	104	85	24.4	92	56	2.5
VA28 X VE58	ML	150.9	154.2	123	126	92	26.2	61	47	4.3
VA 365	ML	104.1	96.5	85	79	87	22.6	90	44	1.9
VA 423	ML	140.1	128.3	114	104	91	23.4	84	53	3.1
VA29 X VE58	L	170.0	147.2	138	120	91	30.0	49	42	4.0
VA 434	L	131.0	117.3	107	96	85	24.0	65	42	3.3

THESE YIELDS NOT SIGN. DIFFERENT N.S. 132.8-154.2 N.S. 108-126

COOPERATOR: F. S. MCCLAUGHERTY, SOUTHWEST VIRGINIA RESEARCH STATION, EMORY
 DATE PLANTED: MAY 11. DATE HARVESTED: OCTOBER 9.
 PLOT SIZE: 2 ROWS, 36" X 17'
 FERTILIZER APPLIED BEFORE PLANTING: 134-82-86/ACRE
 PLANTS PER ACRE FOR PERFECT STAND: R1=16,000; R2=22,000
 GROWING CONDITIONS: GENERALLY GOOD BUT A LITTLE DRY IN MID-SUMMER

TABLE 17. CORN PERFORMANCE, EMORY, VA., 1965-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	PCT ERECT	EAR HT. IN.	QUALITY
		R1	R2	R1	R2				
ASGROW A110	M	114.0	131.9	87	101	22.4	82	45	2.8
DEKALB XL346	ME	112.6	130.7	86	100	22.1	90	42	3.0
DEKALB 624	ME	130.7	134.8	100	103	22.1	86	49	3.3
DEKALB XL385	ML	127.2	130.9	97	100	22.4	85	59	3.4
HOLLYVIEW I60	M	129.4	146.0	99	111	22.5	79	64	3.6
MCNAIR 198	M	120.5	126.9	92	97	21.9	86	47	3.0
MCNAIR 225W	L	108.7	122.3	83	93	22.7	82	53	3.5
MUNCYCHIEF SX770	M	124.0	147.0	95	112	21.6	81	48	3.8
MUNCYCHIEF H720	E	109.3	119.9	83	91	21.6	70	49	2.8
MUNCYCHIEF H740	M	119.7	130.1	91	99	22.1	80	48	3.1
MUNCYCHIEF SX880	M	125.0	129.0	95	98	22.3	67	51	3.4
N-KING PX610	M	121.7	139.0	93	106	21.8	86	50	3.4
N-KING KT626	M	131.0	135.5	100	103	22.4	72	49	3.3
N-KING PX616	M	139.3	132.0	106	101	22.3	79	52	3.5
PIONEER 345A	E	140.6	136.3	107	104	21.8	71	48	3.3
MEAN		127.0	135.4	97	103	22.6	79	52	3.3
PIONEER 310	ML	137.3	143.4	105	109	23.2	83	55	3.6
STULL 101YB	M	139.5	148.5	106	113	22.7	80	51	3.6
STULL 400WA	M	124.2	122.8	95	94	23.5	77	54	3.3
STULL 807SX	M	143.5	149.4	109	114	23.0	72	56	4.2
SS 820S	M	132.7	139.5	101	106	22.5	65	53	3.5
SS 755	ML	121.4	122.9	93	94	23.2	76	53	3.4
SS 860	ML	136.5	138.9	104	106	23.2	77	59	3.3
SS MOTOAKA	ML	123.3	145.1	94	111	22.6	80	54	2.8
TE E20YB	M	125.9	138.0	96	105	22.3	75	49	3.7
TE SX20Y	M	132.2	137.2	101	105	22.5	78	53	3.6
TE E20YA	M	121.6	141.9	93	108	22.9	73	50	3.2
TE CROPMASER	M	140.4	127.6	107	97	23.0	68	50	3.1
VPI 648	M	127.3	135.0	97	103	23.7	88	56	2.8
VPI 646	M	125.8	134.1	96	102	22.5	72	48	3.1
VA 426	M	114.7	138.5	87	106	24.1	94	56	3.0
VA 423	ML	136.3	142.2	104	108	23.4	91	55	3.0

TABLE 18. CORN PERFORMANCE, EMORY, VA., 1964-65-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	EAR HT. IN.	QUALITY
		R1	R2	R1	R2			
DEKALB 624	ME	124.7	131.7	98	104	23.9	45	3.4
MUNCYCHIEF H740	M	120.2	123.7	95	98	23.6	43	3.1
MUNCYCHIEF SX770	M	122.2	143.7	96	113	22.8	45	3.9
PIONEER 345A	E	132.4	124.1	104	98	22.7	43	3.2
STULL 807SX	M	129.4	137.8	102	109	25.3	50	3.8
STULL 101YB	M	121.3	131.9	96	104	24.6	44	3.2
MEAN		123.0	130.4	97	103	24.2	48	3.5
SS 820S	M	128.1	134.4	101	106	24.1	49	3.8
SS MOTOAKA	ML	117.6	128.7	93	102	24.1	51	3.2
SS 860	ML	126.8	132.0	100	104	24.9	55	3.5
SS 755	ML	111.1	119.1	88	94	24.8	49	3.5
TE SX20Y	M	124.4	128.6	98	101	23.7	49	3.9
TE E20YA	M	119.8	141.9	95	112	24.2	51	3.6
VPI 648	M	120.4	117.6	95	93	25.5	50	2.9

TABLE 19. CORN PERFORMANCE, BLACKSBURG, VA., 1966

HYBRID	MATU- RITY	YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	PCT ERECT	EAR HT. IN.	QUAL- ITY	NO. OF EARS
		R1	R2	R1	R2						
ASGROW ATC89	L	85.1	108.5	79	101	97	22.9	88	34	2.5	87
ASGROW ATC93	M	111.0	110.1	104	103	97	23.4	84	35	3.5	88
ASGROW ASC95	M	108.4	109.6	101	102	97	24.2	80	38	3.0	83
ASGROW A100	M	95.4	102.6	89	96	98	22.8	76	36	2.8	79
ASGROW A110	M	88.9	109.4	83	102	99	23.4	95	33	3.0	77
ASGROW ASC112	ML	121.5	119.5	113	112	99	24.3	82	41	3.0	86
ASGROW A120	L	112.6	117.0	105	109	98	23.7	82	36	3.0	92
ASGROW A202	L	108.4	107.0	101	100	99	25.1	81	38	3.5	90
CRIBFILLER 40	E	108.0	121.0	101	113	98	23.5	97	33	3.0	96
CRIBFILLER 66	ML	106.6	121.3	100	113	100	24.0	69	35	3.5	90
DEKALB XL342	VE	93.5	97.8	87	91	98	23.8	95	30	3.0	85
DEKALB XL45	E	85.0	98.7	79	92	96	21.7	99	28	2.0	86
DEKALB XL346	ME	89.9	88.6	84	83	99	22.6	98	28	2.8	79
DEKALB 624	ME	100.7	112.2	94	105	95	24.0	94	36	3.0	91
DEKALB XL65A	M	85.9	102.3	80	96	100	23.1	97	32	2.8	74
DEKALB 805A	M	110.3	126.1	103	118	99	22.8	77	37	3.0	85
DEKALB 872	M	92.4	122.7	86	115	99	23.5	82	36	2.8	98
DEKALB XL385	ML	111.2	142.7	104	133	99	24.2	97	38	3.3	95
HOFMEYER H55	M	99.1	114.4	93	107	98	23.8	86	37	3.0	85
HOLLYVIEW 160	M	116.7	124.3	109	116	99	23.8	84	40	3.3	101
MCNAIR 198	M	104.0	101.1	97	94	99	22.7	92	35	3.0	78
MCNAIR X202	ML	110.5	130.1	103	121	100	24.6	80	37	3.5	94
MCNAIR 225W	L	122.2	135.7	114	127	99	27.2	87	39	3.8	107
MUNCYCHIEF SX550	E	84.6	83.1	79	78	92	21.3	96	32	2.0	75
MUNCYCHIEF H630	E	67.9	80.0	63	75	98	22.3	89	30	2.5	80
MUNCYCHIEF SX770	M	112.8	114.8	105	107	100	22.8	82	37	3.0	85
MUNCYCHIEF SX880	M	110.0	121.4	103	113	94	24.0	82	38	3.5	88
N-KING PX52	E	78.0	93.3	73	87	100	21.9	98	27	1.5	78
N-KING PX610	M	105.8	108.1	99	101	99	21.7	85	34	2.0	93
N-KING PX616	M	103.1	126.4	96	118	99	23.1	84	34	3.3	92
N-KING KT626	M	107.8	112.1	101	105	95	23.5	94	36	2.8	87
N-KING PX676	M	97.0	121.4	91	113	97	22.8	90	36	2.5	91
N-KING PX674	ML	103.9	121.9	97	114	99	25.4	93	37	2.8	88
MEAN		101.2	113.0	94	106	98	23.6	87	35	2.9	88
PIONEER 3567	VE	101.3	111.7	95	104	97	22.7	97	31	3.3	93
PIONEER 3369	ME	109.7	111.5	102	104	98	21.0	93	34	2.8	80
PIONEER 3306	M	107.0	118.5	100	111	99	24.6	100	34	3.3	90
SS EXP D1186	E	99.9	117.5	93	110	99	22.4	91	36	3.3	93
SS 820S	M	97.5	108.2	91	101	98	23.9	72	38	3.0	89
SS 860	ML	88.7	108.5	83	101	99	24.0	89	40	3.0	88
SS MOTOAKA	ML	97.8	122.7	91	115	99	23.1	86	39	3.0	88
SS 909E	L	112.8	134.8	105	126	93	24.9	91	44	3.0	99
TE 6415	ME	106.3	99.0	99	92	97	22.3	83	30	2.0	84
TE E20YB	M	104.2	121.7	97	114	100	23.9	90	37	3.3	88
TE SX20Y	M	86.9	116.9	81	109	97	23.1	90	42	2.3	82
TE E20YA	M	115.3	107.5	108	100	99	23.9	83	36	3.3	89
TE CROPMASTER	M	102.8	92.7	96	87	97	22.9	84	36	3.0	84
TE DOLLARMAKER	M	88.7	125.3	83	117	97	23.5	97	33	3.0	86
TE CASHMAKER	M	99.4	106.1	93	99	95	23.3	99	29	2.5	89
TE MINTMAKER	ML	96.2	115.0	90	107	98	22.0	94	35	2.8	86
THOMPSON SC220	ME	84.6	97.0	79	91	99	22.4	91	39	2.0	80
THOMPSON 101	M	97.0	112.0	91	105	98	23.1	78	37	2.8	86
THOMPSON 219	M	105.1	110.6	98	103	99	24.6	81	37	2.5	89
US 13	M	90.9	104.3	85	97	95	23.4	80	36	2.5	80
VPI 646	M	97.2	109.1	91	102	99	23.8	79	36	2.8	85
VPI 648	M	109.6	118.6	102	111	100	23.4	78	38	3.0	89
VA 327	ME	105.6	123.0	99	115	99	26.3	95	25	3.8	91
VA31 X VE59	ME	96.7	109.1	90	102	97	22.5	81	32	2.5	88
VA 326	M	116.2	131.2	108	123	98	26.4	96	34	3.0	84
VA 368	M	98.8	115.5	92	108	99	22.0	82	32	3.0	90
VA 368	M	97.3	111.2	91	104	99	22.7	89	33	3.3	90
VA 369	M	92.9	116.4	87	109	95	23.1	74	40	3.3	94
VA 426	M	98.1	118.8	92	111	97	26.4	91	35	3.0	83
VA28 X VE58	ML	119.6	129.1	112	121	100	28.4	58	40	3.8	94
VA 423	ML	110.9	103.3	104	96	100	25.1	93	35	3.3	88

THESE YIELDS NOT SIGN. DIFFERENT N.S. 116.4-142.7 N.S. 109-133

DATE PLANTED: MAY 13. DATE HARVESTED: OCTOBER 24.
 PLOT SIZE: 2 ROWS, 36" X 18'
 FERTILIZER APPLIED: 500 LBS. 0-10-20 BEFORE PLANTING PLUS 150 LBS.
 N/A WITH ATRAZINE, PREEMERGENCE
 PLANTS FOR PERFECT STAND: R1=16,000; R2=22,000
 GROWING CONDITIONS: DRY IN MID-SUMMER

TABLE 20. CORN PERFORMANCE, BLACKSBURG, VA., 1965-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	PCT ERECT	EAR HT. IN.	QUAL-ITY	NO. OF EARS
		R1	R2	R1	R2					
ASGROW A110	M	114.1	124.5	88	96	21.3	89	39	3.6	86
CRIBFILLER 40	E	118.5	135.6	91	105	20.6	93	39	3.5	98
CRIBFILLER 66	ML	133.5	155.8	103	120	22.6	83	42	4.3	97
DEKALB XL45	E	100.3	115.9	77	89	19.1	90	34	3.2	93
DEKALB XL346	ME	97.8	112.1	75	86	19.8	97	34	3.4	87
DEKALB 624	ME	113.5	122.1	88	94	21.2	87	41	3.8	97
DEKALB XL385	ML	137.5	164.5	106	127	22.1	93	45	4.1	97
HOLLYVIEW 160	M	151.2	155.9	117	120	21.3	84	47	3.8	113
MCNAIR 198	M	111.4	117.3	86	91	20.2	91	39	3.7	87
MCNAIR 225W	L	134.8	146.9	104	113	23.7	85	45	4.3	105
MUNCYCHIEF H630	E	87.7	98.6	68	76	19.7	78	35	3.3	86
MUNCYCHIEF SX770	M	124.4	133.9	96	103	20.7	81	41	3.8	95
MUNCYCHIEF SX880	M	133.9	139.5	103	108	21.1	86	43	4.1	95
N-KING PX610	M	116.2	133.8	90	103	19.5	83	40	3.2	96
N-KING PX616	M	114.0	144.5	88	111	20.3	85	40	3.9	97
N-KING KT626	M	126.5	137.1	98	106	20.1	92	41	3.7	93
MEAN		122.6	136.6	95	105	21.2	86	42	3.7	95
PIONEER 3369	ME	136.1	136.9	105	106	20.2	92	39	3.9	91
PIONEER 3306	M	134.6	151.0	104	117	22.2	95	40	4.0	99
SS 820S	M	134.3	140.2	104	108	21.5	80	43	4.0	95
SS 860	ML	114.4	138.0	88	106	21.4	78	46	3.8	97
SS 909E	L	133.5	168.8	103	130	22.9	88	55	3.8	108
TE SX20Y	M	116.3	143.9	90	111	21.2	83	46	3.6	90
TE E20YB	M	123.7	138.1	95	107	22.0	89	44	4.1	94
TE E20YA	M	122.8	136.3	95	105	21.6	80	42	3.8	95
TE CROPMASTER	M	130.5	128.6	101	99	20.8	88	42	4.0	91
THOMPSON SC220	ME	115.2	129.4	89	100	19.9	91	43	3.3	92
THOMPSON 101	M	120.9	138.8	93	107	21.5	81	43	3.6	94
THOMPSON 219	M	123.2	136.9	95	106	22.3	75	42	3.5	99
VPI 646	M	126.9	134.6	98	104	21.4	81	42	3.6	94
VPI 648	M	121.2	131.9	94	102	21.6	75	43	3.7	96
VA 426	M	122.0	144.0	94	111	23.4	93	41	3.8	93
VA 423	ML	132.0	136.9	102	106	22.0	95	40	3.6	96

TABLE 21. CORN PERFORMANCE, BLACKSBURG, VA., 1964-65-66

		YIELD BU/A		RELATIVE YIELD		PCT WATER	EAR HT. IN.	QUAL-ITY
		R1	R2	R1	R2			
CRIBFILLER 66	ML	124.7	142.0	104	118	26.2	42	4.0
DEKALB 624	ME	106.7	118.1	89	98	25.1	41	3.9
MUNCYCHIEF SX770	M	114.5	123.0	95	102	24.4	40	3.8
SS 860	ML	111.1	127.8	92	106	25.2	46	3.6
SS 820S	M	121.1	128.2	101	107	24.4	42	4.0
MEAN		113.4	127.2	94	106	25.0	42	3.7
TE SX20Y	M	108.0	131.6	90	109	24.6	43	3.5
TE E20YA	M	115.2	130.1	96	108	24.8	39	3.7
THOMPSON 219	M	112.5	125.7	94	104	26.0	41	3.4
THOMPSON SC220	ME	109.5	122.4	91	102	24.1	42	3.4
THOMPSON 101	M	110.8	127.8	92	106	24.7	41	3.4
VPI 648	M	113.8	122.5	95	102	25.4	41	3.6

TABLE 22. CORN PERFORMANCE, STEELE'S TAVERN, VA., 1966

		YIELD BU/A		RELATIVE YIELD		PCT STAND	PCT WATER	PCT ERECT	EAR HT. IN.	QUALITY
		R1	R2	R1	R2					
ASGROW A110	M	97.8	117.5	87	104	100	26.2	89	36	3.6
ASGROW SM6	L	112.9	123.0	100	109	100	26.8	86	35	4.3
CRIBFILLER 116	ME	101.2	116.5	90	104	100	23.6	92	39	3.9
CRIBFILLER 66	ML	125.4	129.4	111	115	100	25.2	81	37	4.6
DEKALB 624	ME	106.8	126.8	95	113	100	24.2	96	36	4.1
DEKALB 805A	M	116.4	117.5	103	104	100	24.2	65	34	4.6
DEKALB XL385	ML	112.1	107.9	100	96	100	25.6	89	37	4.4
DEKALB 1006	L	110.4	113.8	98	101	100	28.4	91	44	3.6
FUNK G96	M	103.6	117.2	92	104	100	22.5	82	33	3.8
FUNK G146	ML	100.9	118.7	90	106	100	24.3	87	38	4.0
HOFMEYER H55	M	115.4	110.1	103	98	100	26.1	77	39	4.3
HOFMEYER H601	L	99.3	117.8	88	105	100	28.1	91	41	4.4
MCNAIR X202	ML	114.7	122.9	102	109	100	28.8	95	33	4.6
MUNCYCHIEF SX880	M	109.4	119.5	97	106	100	25.5	77	36	3.9
MUNCYCHIEF H740	M	114.5	123.8	102	110	100	20.2	85	31	3.9
N-KING PX616	M	113.2	122.7	101	109	100	21.9	98	36	4.4
N-KING KT626	M	112.4	100.8	100	90	100	23.8	88	37	3.9
O+M GS700	M	89.4	108.9	79	97	100	25.4	96	29	3.8
PAG SX59	M	131.5	155.5	117	138	100	20.2	99	35	4.5
MEAN		108.1	116.8	96	104	100	25.7	87	37	4.0
PIONEER 3306	M	104.8	119.2	93	106	100	25.5	95	38	4.0
PIONEER 310	ML	106.7	115.7	95	103	100	27.6	87	38	4.4
PIONEER 309A	L	91.6	103.1	81	92	100	26.1	96	39	3.8
SS 820S	M	112.7	107.7	100	96	100	25.5	77	39	4.3
SS 860	ML	109.4	112.5	97	100	100	26.5	94	38	4.0
SS 909E	L	116.4	118.6	103	105	100	28.8	98	44	4.1
SS 979	VL	109.1	117.4	97	104	100	29.1	89	42	4.3
TE E20YA	M	100.5	115.5	89	103	100	25.5	84	35	3.8
TE CROPMASTER	M	109.9	117.5	98	104	100	23.6	86	35	3.4
THOMPSON SC220	ME	103.4	106.9	92	95	100	27.4	77	37	3.9
THOMPSON 101	M	105.9	108.6	94	97	100	25.7	83	37	4.0
THOMPSON 219	M	111.4	112.3	99	100	100	28.5	85	40	4.4
TODD 92B	L	99.8	113.4	89	101	100	28.2	93	34	3.9
VPI 426	ME	95.0	106.6	84	95	100	26.8	43	34	3.8
VPI 648	M	105.7	119.5	94	106	100	25.5	93	35	4.1
WATSON 430	L	106.0	124.1	94	110	100	28.8	92	39	3.1
VA 426	M	116.6	116.8	104	104	100	25.0	100	37	4.0

COOPERATOR: W. H. MCCLURE, SHENANDOAH RESEARCH STATION, STEELE'S TAVERN
 DATE PLANTED: MAY 18. DATE HARVESTED: NOVEMBER 15.
 PLOT SIZE: 2 ROWS, 36" X 15'
 FERTILIZER APPLIED: 80-210-105/A BEFORE PLANTING, PLUS
 0-60-30/A AT PLANTING, PLUS
 80 LBS. N./A SIDEDRESSED.
 PLANTS FOR PERFECT STAND: R1-15,000; R2-21,000
 GROWING CONDITIONS: DRY IN MID-SUMMER, WET DURING FALL.