

1971 VIRGINIA CORN PERFORMANCE TRIALS

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The performance trials of commercial hybrids conducted in Virginia are designed to compare hybrids which either are being sold or are promising for use and sale in the state. With few exceptions, only those hybrids that were submitted by the hybrid corn companies were entered in these tests. Exceptions were hybrids which were entered at the request of professional workers in Virginia in order to provide information on particular hybrids in particular areas.

Seed for these tests was sent to Blacksburg by the seed companies. Due to the need to change hybrid seed production from T to normal cytoplasm, many of the lots were hand-pollinated seed which were made to represent the commercial lots to be produced on normal cytoplasm in 1971.

A few hybrids with T cytoplasm and a few blends were included in these tests so that a measure of damage from southern leaf blight might be obtained. Also included, for research purposes, were a few entries of F₂ seed. The results obtained are largely academic and in the nature of hindsight since sufficient seed with normal cytoplasm is available to plant the expected corn acreage in Virginia in 1972.

Seed for all plots was packaged at Blacksburg with plots over-seeded about 10% above the final stands desired by the company and plots were not thinned. All tests were planted in three applications of single row plots. Row lengths and widths are given as footnotes on the tables of data for the 1970 tests. Cultural practices are also given as footnotes to the tables.

Hybrids were grouped by maturity and appropriate border rows were planted adjacent to each group to minimize border effects. Harvest dates were delayed at some locations due to a cool summer and a wet fall. All maturity groups were harvested on the same date at some locations. Moisture at harvest should not be used for a comparisons of hybrids harvested on different dates.

The following data are reported in one or more tables: Final plant stand per acre; yield of shelled corn in bushels per acre corrected to 15 1/2% moisture; relative yield, comparing the yield of each hybrid to the over-all test yield; percent moisture in the grain at harvest; percent erect plants at harvest; number of days from planting to mid-silk; ear height to the top ear-bearing node; grain quality scored from 1 = very good to 5 = very poor. Ear weights were obtained at Warsaw, Petersburg, Charlotte Court House and Glade Spring and converted to yields of shelled corn. Shelled corn weights were obtained at Holland, Orange and Blacksburg.

Those hybrids that were above the test average in yield and that were as good as or better than the average for their maturity group in standability have been underlined at each location. When maturity groups were harvested on different dates an over-all comparison of standability is inappropriate.

Seed of open-pedigree hybrids was obtained from Virginia certified seed growers. Seed of privately controlled hybrids was obtained from the originating company. Other seed was produced VPISU. The list of brand names and the sources of seed of tested hybrids is as follows:

<u>Hybrid Name or Brand</u>	<u>Source of Seed--Contributors of Seed</u>
Asgrow	Asgrow Seed Co., Mechanicsburg, Pa. 17055
Clark	Clark Seed Co., Inc., Kenton, Del. 19955
DeKalb	DeKalb Agricultural Association, DeKalb, Ill. 60115
Funk G	A. H. Hoffman Seeds, Inc., Landisville, Pa. 17538
Hofmeyer	A. N. Hofmeyer, Tomahund Plantation, RFD 1, Box 183, Williamsburg, Va. 23185
McNair	McNair Seed Co., Box 706, Laurinburg, N. C. 28352
Muncy Chief	The Hoffman Seed & Grain Co., Munch, Pa. 17756
Northrup- King	Northrup-King and Co., 1500 Jackson Street., N. E. , Minneapolis, Minn. 55413
Pioneer	Pioneer Corn Co., Inc., 221 N. Main St., Tipton, Ind. 46072
Southern States	Southern States Cooperative, 2600 Durham St., Richmond, Va. 23220
Stull	Stull Bros., Inc., Sebree, Ky. 42455
Taylor-Evans	Taylor-Evans Seed Co., Box 480, Tulia, Texas 79088
Thompson	G. C. Thompson & Son, Route 1, Eagle Rock, Va. 24085
Todd	Todd Hybrid Sales, Box 66, Abbottstown, Pa. 17301
Trojan	Trojan Seed Co., Box 367, Windfall, Ind. 46076
Watson	Watson Seed Farm, Rocky Mount, N. C. 27801
McCurdy	W. O. McCurdy & Sons, Fremont, Iowa 52561

TABLE 1. PERFORMANCE MEANS AND MAXIMUM YIELDS FOR MATURITY GROUPS OF HYBRIDS, 1971 YIELD TRIALS.

Location	Maturity Group	Harvest Date	Plants/Acre Mean (000)	Yield, Bu./ Acre		% H ₂ O Mean	% Erect Mean	Days to Silk Mean	Ear Ht. (In.) Mean
				Mean	Max.				
Holland	Early	9/14	19.1	112.1	156.2	20.7	91	79	48
	Midseason	9/14	19.2	119.2	152.8	25.4	94	81	54
Warsaw	Early	9/22-23	21.6	95.2	109.4	20.9	77	72	47
	Midseason	9/22-23	18.1	108.9	135.5	24.2	84	75	50
Petersburg	Early	9/20 & 23	14.9	90.0	131.4	19.1	99	69	33
	Midseason	9/20 & 23	12.6	91.8	120.3	22.9	99	71	34
	Full season	9/20 & 23	10.8	82.2	105.0	25.2	100	75	36
Charlotte C. H.	Early	9/24	18.7	98.2	119.6	26.3	92	67	44
	Midseason	10/13	17.4	106.4	144.5	24.8	89	71	50
Orange (Planted May 3)	Early	10/10	19.6	124.7	159.6	19.8	99	76	36
	Midseason	10/21	18.1	135.7	172.8	21.3	96	78	45
	Full season	11/1	18.3	117.9	130.2	22.7	98	85	48
Orange (Planted May 21)	Early	10/14	21.6	103.7	127.9	31.9	90	50	41
	Midseason	10/22	20.7	108.5	144.4	25.9	77	53	45
	Full season	11/4	20.3	118.4	133.1	30.0	81	56	47
Blacksburg	Early	11/5	20.8	137.4	177.6	21.8	96	80	43
	Midseason	11/5	18.0	139.7	171.6	25.0	95	86	47
	Full season	11/5	18.1	124.3	163.1	26.1	93	89	47
Glade Spring	Early	10/21	17.5	134.3	163.2	21.9	87	72	48
	Midseason	10/21	15.9	139.6	151.4	25.3	91	79	52
	Full season	10/21	15.3	143.4	159.4	26.4	93	83	55

TABLE 2. CORN PERFORMANCE, HOLLAND, VIRGINIA, 1971.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW RX58	2X 20970	118.6	101	18.2	93	79	44
ASGROW RX60	2X 21850	121.6	103	17.2	89	79	50
<u>CLARK EXP 9395</u>	2X 19210	148.9	126	22.5	98	79	53
<u>DEKALB XL66</u>	2X 19650	125.2	106	25.0	96	80	44
<u>FUNK G4455</u>	3X 19510	117.2	99	22.0	94	78	43
<u>FUNK G4550</u>	2X 19210	134.2	114	25.3	92	79	51
<u>MCCURDY MSP777</u>	3X 18920	56.6	48	18.6	78	80	49
<u>MUNCY CHIEF 662</u>	18770	100.9	86	22.3	94	78	45
<u>PICNEER BRAND 3518</u>	M2X 19510	105.4	89	23.0	98	80	44
<u>PICNEER BRAND 3570</u>	2X 19650	99.6	84	18.6	92	78	49
<u>PICNEER BRAND 3571</u>	M2X 17010	114.6	97	20.0	94	79	50
<u>STULL 707SX</u>	2X 18770	156.2	133	23.7	95	79	50
<u>TE BONUSMAKER S</u>	2X 18330	92.2	78	19.3	82	79	50
<u>TE GROMASTER</u>	4X 18190	54.5	46	17.7	75	79	45
<u>TODD M65</u>	2X 17310	136.5	116	18.4	98	79	52
<u>TRQJAN M114</u>	3X 18190	110.7	94	19.4	89	79	53
GROUP AVERAGES	19070	112.1	95	20.7	91	79	48
L.S.D.		26.6					
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW RX80A	2X 19210	113.2	96	22.4	95	80	50
ASGROW RX99	2X 20240	129.9	110	25.0	91	81	48
ASGROW RX100	2X 21850	103.0	87	25.7	97	80	52
<u>CLARK 777(N)</u>	2X 19650	123.5	105	25.0	87	80	53
<u>CLARK 777(B)</u>	2X 20680	51.0	43	19.7	89	80	50
<u>CLARK 777(T)</u>	2X 20830	49.2	42	19.3	83	80	52
<u>CLARK 777B</u>	2X 17890	137.9	117	26.2	98	82	50
<u>DEKALB XL81</u>	2X 20530	119.7	102	23.2	97	79	51
<u>DEKALB EX83</u>	2X 17600	129.3	110	24.9	96	80	51
<u>DEKALB XL389</u>	3X 20240	132.7	113	31.9	96	84	58
<u>DEKALB S9CC (FLINT)</u>	18190	87.3	74	28.3	85	82	55
<u>FUNK G4644A</u>	2X 22730	120.8	102	25.1	97	81	54
<u>FUNK G4646</u>	2X 19210	145.6	124	24.8	97	80	53
<u>FUNK G5757</u>	4X 22590	139.8	119	26.9	95	80	61
<u>HOFMEYER SX50</u>	2X 22000	56.8	82	25.2	91	80	49
<u>HOFMEYER EXP2</u>	2X 18920	104.6	89	23.6	97	83	53
<u>MCCURDY MSX77</u>	2X 18920	114.8	97	23.6	94	82	53

MCCURDY MSX88	2X	19650	148.8	126	25.7	90	80	55
MCNAIR 210F EXP	2X	14520	119.0	101	25.2	95	82	50
MCNAIR 2030	SP	18920	133.2	113	26.2	99	82	52
MCNAIR 2070	2X	18630	152.5	129	29.1	95	82	57
MCNAIR 2090	2X	16280	142.7	121	28.7	97	81	53
MCNAIR 2130	2X	17600	151.5	129	30.2	97	82	54
MCNAIR 2150	2X	18920	141.2	120	29.3	95	81	52
MCNAIR X210	2X	19210	122.8	104	26.3	90	82	55
MCNAIR 2212	SP	19360	135.7	115	27.6	97	84	55
MCNAIR 3838	SP	19070	125.3	106	30.1	93	83	59
MUNCY CHIEF 770	2X	17750	52.7	45	20.0	82	81	47
MUNCY CHIEF 777		20830	59.1	50	19.3	85	80	46
MUNCY CHIEF 878		20390	122.0	104	26.0	95	80	53
PICNEER BRAND 3179	M2X	15990	125.9	107	25.0	95	82	58
PIONEER BRAND 3308	3X	19510	141.2	120	24.3	99	79	54
PICNEER BRAND 3368	M2X	21120	135.6	115	25.7	98	82	55
PICNEER BRAND 3369A	2X	21710	137.2	116	24.0	97	81	54
PIONEER BRAND 511A		21710	108.7	92	25.5	93	84	63
PICNEER BRAND 511A F2	F2	21410	83.8	71	28.0	92	86	60
SOUTHERN STATES 720	SP	18630	120.8	103	24.5	95	81	56
SOUTHERN STATES 860	4X	15400	112.4	95	22.0	93	81	55
SOUTHERN STATES 865	4X	20530	112.7	96	23.6	96	83	55
STULL 560W SP	SP	17750	105.6	90	24.4	88	81	62
STULL 720 SX	2X	19950	145.5	123	23.9	97	82	55
STULL 807 SX	2X	19070	115.4	98	24.6	96	82	54
STULL 809 SX	2X	19950	137.2	116	25.8	93	83	55
STULL 809A SP	SP	17600	121.3	103	25.6	88	82	55
STULL 877 SX	2X	17010	118.1	100	26.1	95	81	54
STULL 907YSP	SP	16130	58.9	50	23.7	91	84	61
TE MASTERMAKER	2X	17600	117.5	100	26.2	97	82	46
TE CASHMAKER	2X	22440	112.7	96	21.6	87	81	50
TE MINTMAKER	2X	21850	122.1	105	24.5	92	82	51
TODD M70	2X	22000	126.1	107	24.5	95	81	45
TODD M90	2X	18480	90.5	77	24.1	94	81	47
TROJAN TXS113	2X	21410	144.7	123	23.5	98	80	55
TROJAN TX119	3X	19510	117.3	100	25.3	93	81	53
TROJAN TXS119	2X	21120	131.6	112	25.9	96	79	53
WATSON 199(T)		15110	57.8	49	25.5	93	82	51
WATSON 411		16430	110.1	93	26.5	96	83	51
WATSON 413		16130	128.9	109	26.3	98	82	56
WATSON 416		16870	149.4	127	27.7	97	81	56
WATSON 416A		18770	137.0	116	26.8	99	82	55
WATSON 416B		19360	142.5	121	24.9	98	80	52
WATSON 416C		18040	131.8	112	23.5	92	81	53
WATSON 430	SP	18770	123.0	104	27.0	100	83	61
VA59 X PA91		20830	119.6	101	27.4	99	80	50
VA60 X H84		20390	149.1	127	30.1	97	82	54
MO17 X PA91		20530	152.8	130	28.5	99	81	53
GROUP AVERAGES		19250	119.2	101	25.4	94	81	54
L.S.D.			19.6					
EXPERIMENT AVERAGES		19220	117.8	100	24.5	94	81	52
L.S.D.			21.2					

COOPERATOR: L. W. BROWN, TIDEWATER RESEARCH STATION, HOLLAND, VIRGINIA.
DATE PLANTED: APRIL 20. DATE HARVESTED: SEPTEMBER 14 (ALL MATURITIES).
PLOT SIZE: 1 ROW 30 FEET LONG, 36 INCHES BETWEEN ROWS. REPLICATIONS: 3.
FERTILIZER APPLIED: 144-72-144.
GROWING CONDITIONS: GENERALLY GOOD.

TABLE 3. CORN PERFORMANCE, TWO- AND THREE-YEAR AVERAGES, HOLLAND, VIRGINIA

TWO-YEAR AVERAGES

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
<u>DEKALB XL66</u>	2X 21050	133.5	119	26.0	93	73	37
<u>FUNK G4550</u>	2X 21340	123.5	110	27.3	93	73	42
<u>PICNEER BRAND 3518</u>	M2X 20170	115.2	103	23.1	96	76	39
<u>PICNEER BRAND 3571</u>	M2X 19950	118.8	106	22.0	92	72	40
<u>STULL 707SX</u>	2X 21410	134.1	120	23.5	87	73	42
<u>TE BONUSMAKER S</u>	2X 19950	100.1	89	21.1	86	72	41
<u>TE GROMASTER</u>	4X 20240	79.9	71	19.7	82	72	37
<u>TROJAN M114</u>	3X 18480	114.4	102	21.5	88	72	42
GROUP AVERAGES	20320	114.9	103	23.0	90	73	40
TESTED IN MID-SEASON MATURITY GROUP							
<u>CLARK 777(N)</u>	2X 18990	108.2	97	25.7	92		
<u>CLARK 777B</u>	2X 19140	129.2	115	24.8	96		
<u>DEKALB XL81</u>	2X 20680	116.7	104	22.8	96		
<u>FUNK G5757</u>	4X 22810	129.0	115	25.1	95		
<u>HOFMEYER SX50</u>	2X 21780	98.4	88	24.3	93		
<u>MUNCY CHIEF 770</u>	2X 19510	76.6	68	21.2	90		
<u>MUNCY CHIEF 777</u>	20460	79.0	71	20.8	88		
<u>PICNEER BRAND 3369A</u>	2X 21050	140.4	125	23.2	95		
<u>SOUTHERN STATES 720</u>	SP 19800	105.7	94	22.2	89		
<u>STULL 720 SX</u>	2X 21120	129.7	116	22.9	96		
<u>STULL 809 SX</u>	2X 21710	121.2	108	24.4	94		
<u>TE MASTERMAKER</u>	2X 19730	113.9	102	25.6	97		
<u>TE CASHMAKER</u>	2X 23320	108.9	97	21.1	88		
<u>TODD M70</u>	2X 21200	115.2	103	24.1	94		
<u>TODD M90</u>	2X 18920	100.2	90	23.5	82		
<u>WATSON 199(T)</u>	17890	93.6	84	25.9	90	76	45
<u>WATSON 430</u>	SP 19430	111.1	99	25.1	90	77	48
GROUP AVERAGES	20440	110.4	99	23.7	92	75	42
EXPERIMENT AVERAGES	20400	111.9	100	23.5	91	74	41

THREE-YEAR AVERAGES, 1969-70-71

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
<u>DEKALB XL66</u>	2X 21070	139.3	119	24.7	93	69	39
<u>PICNEER BRAND 3518</u>	M2X 19780	126.0	107	21.9	96	73	43
<u>TE BCNLSMAKER S</u>	2X 21040	106.8	91	20.7	89	70	42
<u>TE GROMASTER</u>	4X 20540	94.6	80	19.4	85	70	40
<u>TROJAN M114</u>	3X 18840	124.6	106	20.7	91	69	44
GROUP AVERAGES	20250	118.3	101	21.5	91	70	42
TESTED IN MID-SEASON MATURITY GROUP							
<u>FUNK G5757</u>	4X 21950	128.3	109	23.4	94	73	48
<u>MUNCY CHIEF 770</u>	2X 20400	92.5	79	21.0	92	72	42
<u>PICNEER BRAND 3369A</u>	2X 20310	146.5	125	22.1	96	72	46
<u>SOUTHERN STATES 720</u>	SP 20060	108.7	92	21.0	90	73	45
<u>TE CASHMAKER</u>	2X 23230	118.4	101	20.5	91	72	42
<u>TODD M70</u>	2X 20290	124.2	106	23.6	96	71	40
<u>TODD M90</u>	2X 18890	112.8	96	21.8	81	73	43
<u>WATSON 199(T)</u>	18380	104.9	89	24.8	89	73	46
<u>WATSON 430</u>	SP 19410	117.7	100	23.9	91	74	48
GROUP AVERAGES	20320	117.1	100	22.5	91	73	44
EXPERIMENT AVERAGES	20300	117.5	100	22.1	91	72	43

TABLE 4. CORN PERFORMANCE, WARSAW, 1971.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY.
TESTED IN EARLY MATURITY GROUP								
ASGROW RX58	2X 22730	96.5	91	19.7	78	68	42	3.3
ASGROW RX60	2X 24050	104.6	99	17.6	83	71	48	2.0
<u>CLARK EXP 9395</u>	2X 19800	109.4	103	21.2	87	74	50	1.7
DEKALB XL44	2X 22000	99.6	94	21.0	86	68	40	3.0
FUNK G4550	2X 21270	102.1	96	26.0	75	73	48	2.3
MCCURDY MSP777	3X 20090	85.0	80	20.8	59	73	50	3.0
PICNEER BRAND 3518	M2X 21270	84.4	80	23.3	83	71	40	4.0
PICNEER BRAND 3570	2X 23030	99.8	94	21.0	87	71	49	3.3
<u>PICNEER BRAND 3571</u>	M2X 20390	107.3	101	21.1	84	71	45	3.0
STULL 707SX	2X 21410	107.9	102	22.9	77	72	48	1.3
TE BONUSMAKER S	2X 20830	74.5	70	20.8	74	73	47	4.3
TE GROMASTER	4X 21560	79.4	75	17.4	73	71	43	3.7
TE MARKETMAKER	2X 23610	97.9	92	24.7	72	75	50	3.0
TE TIMEMASTER	4X 22290	72.0	68	16.7	57	68	48	4.3
TODD M65	2X 19950	95.6	94	19.7	79	75	47	2.7
TRCJAN M114	3X 22000	103.8	98	20.6	83	74	51	3.0
GROUP AVERAGES	21640	95.2	90	20.9	77	72	47	3.0
L.S.D.		12.5						
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW RX80A	2X 20530	100.3	95	21.4	89	73	43	1.0
ASGROW RX99	2X 20240	115.4	109	27.1	81	76	50	1.3
<u>ASGROW RX100</u>	2X 19070	111.4	105	24.4	82	75	48	1.0
CLARK 777(N)	2X 17160	117.8	111	25.2	80	74	48	1.7
CLARK 777(B)	2X 17010	86.1	81	22.1	66	73	48	2.0
CLARK 777(T)	2X 18190	98.3	93	22.7	52	74	49	2.0
CLARK 777B	2X 16570	100.0	94	23.8	85	77	46	2.7
<u>DEKALB XL81</u>	2X 17310	107.7	102	22.6	95	72	51	3.0
<u>FUNK G4644A</u>	2X 20240	110.9	105	25.4	88	75	52	2.7
<u>FUNK G4646</u>	2X 18770	116.8	110	23.9	84	71	50	1.7
FUNK G4697	3X 19800	106.0	100	26.2	73	75	51	3.0
<u>FUNK G5757</u>	4X 22000	128.9	122	25.6	87	75	52	2.0
<u>HOFMEYER SX50</u>	2X 20680	98.7	93	22.7	74	72	45	2.3
<u>HOFMEYER SX69A</u>	2X 16870	112.5	106	23.8	83	77	48	1.7
<u>MCCURDY MSX77</u>	2X 19950	99.0	94	24.7	92	75	49	2.7
<u>MCCURDY MSX88</u>	2X 16870	109.6	103	25.0	87	74	47	2.3
<u>MCNAIR 210F EXP</u>	2X 15400	123.8	117	24.2	86	74	49	1.0

<u>MCNAIR X210</u>	2X	17600	124.3	117	25.2	86	75	49	2.0
<u>MCNAIR 2212</u>	SP	15400	113.3	107	26.4	92	76	52	1.0
<u>MCNAIR 3838</u>	SP	17160	115.1	109	24.8	91	77	54	1.7
<u>MUNCY CHIEF 878</u>		17160	102.7	97	24.4	90	73	51	1.3
<u>PICNEER BRAND 3329</u>	M3X	20240	128.3	121	24.4	79	78	54	1.0
<u>PICNEER BRAND 3334</u>	2X	17310	112.4	106	25.8	90	76	42	2.7
<u>PICNEER BRAND 3334 F2</u>	F2	20240	52.0	49	24.1	86	80	37	5.0
<u>PICNEER BRAND 3368</u>	M2X	17890	127.9	121	22.2	79	75	48	1.3
<u>PICNEER BRAND 3369A</u>	2X	19650	135.5	128	23.8	79	74	53	1.0
<u>SOUTHERN STATES 720</u>	SP	19070	103.6	98	23.5	77	74	52	3.0
<u>SOUTHERN STATES 860</u>	4X	15550	92.2	87	22.6	81	75	52	3.3
<u>SOUTHERN STATES 865</u>	4X	19070	111.9	106	24.1	79	76	53	2.3
<u>STULL 560W SP</u>	SP	15110	113.8	108	23.5	72	76	55	2.0
<u>STULL 720 SX</u>	2X	15400	120.3	114	23.5	81	73	52	1.0
<u>STULL 807 SX</u>	2X	16870	122.2	115	23.9	91	74	51	2.3
<u>STULL 809 SX</u>	2X	18330	118.1	112	23.6	82	76	51	2.0
<u>STULL 809A SP</u>	SP	18480	94.8	90	23.6	87	75	49	2.7
<u>STULL 877 SX</u>	2X	16570	109.2	103	24.7	82	76	49	2.7
<u>STULL 907YSP</u>	SP	13930	78.4	74	22.3	72	79	54	2.3
<u>TE MASTERMAKER</u>	2X	18920	113.5	107	26.1	84	76	43	2.0
<u>TE CASHMAKER</u>	2X	20530	103.7	98	20.9	81	70	49	3.3
<u>TE MINTMAKER</u>	2X	20390	119.9	113	23.4	75	75	50	3.0
<u>TE E20YA</u>	4X	19210	93.4	88	21.4	84	74	48	3.3
<u>TE M20W</u>	4X	19210	89.3	84	23.8	88	78	53	3.3
<u>TE SILAGEMAKER</u>	4X	18770	108.2	102	25.9	86	73	48	3.0
<u>TE EXP 6924W</u>	4X	19510	78.6	74	25.7	85	85	55	3.3
<u>TODD M70</u>	2X	18190	90.9	86	24.5	93	72	47	2.0
<u>TODD M90</u>	2X	13490	92.0	87	24.0	85	75	47	1.0
<u>TROJAN TXS113</u>	2X	21120	117.7	111	24.6	88	71	52	2.3
<u>TROJAN TXS121</u>	2X	19070	105.9	100	23.5	92	75	51	3.0
<u>TROJAN TXS122</u>	2X	17890	118.0	111	24.3	80	75	48	1.7
<u>WATSON 199T</u>		17600	96.5	91	24.7	86	77	52	2.7
<u>WATSON 411</u>		16870	110.5	104	24.7	85	77	52	1.7
<u>WATSON 413</u>		17600	127.4	120	25.6	90	77	54	1.7
<u>WATSON 416</u>		16130	114.1	108	24.3	84	76	51	1.7
<u>WATSON 430</u>	SP	16280	123.6	117	24.7	90	75	53	1.3
<u>VA59 X PA91</u>	2X	19800	123.2	116	22.8	91	73	49	1.3
<u>VA60 X H84</u>	2X	19070	130.6	123	26.8	88	75	47	1.0
<u>VA35 X H84</u>	2X	18630	123.5	117	23.7	89	73	51	2.0
GROUP AVERAGES		18140	108.9	103	24.2	84	75	50	2.1
L.S.D.			23.1						
EXPERIMENT AVERAGES		18920	105.9	100	23.5	82	74	49	2.3
L.S.D.			21.1						

COOPERATOR: H. M. CAMPER, JR., EASTERN VIRGINIA RESEARCH STATION, WARSAW, VA.
DATE PLANTED: MAY 4. DATE HARVESTED: SEPTEMBER 22-23 (ALL MATURITIES).
PLOT SIZE: 1 ROW 30' x 3'. REPLICATIONS: 3.
FERTILIZER APPLIED: 100-100-100 BEFORE PLANTING PLUS 40 LBS. N ON JUNE 10.
GROWING CONDITIONS: DRY JULY 6-30.

TABLE 5. CORN PERFORMANCE, TWO- AND THREE-YEAR AVERAGES, WARSAW, VIRGINIA.

TWO-YEAR AVERAGES, 1970-71.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	FCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
TESTED IN EARLY MATURITY GROUP								
FUNK G4550	2X 21490	112.7	100	25.5	86	72	43	1.8
<u>PIONEER BRAND 3571</u>	M2X 21120	123.6	109	20.8	91	71	40	2.6
TE BCNLSMAKER S	2X 21270	98.2	87	20.6	85	73	40	3.5
TE MARKETMAKER	2X 22510	104.7	93	22.4	84	73	42	2.3
TE TIMEMASTER	4X 21190	85.8	76	17.4	74	69	43	3.6
TODD M65	2X 19360	106.8	95	20.5	88	76	44	2.3
<u>TRCJAN M114</u>	3X 19660	114.9	102	21.8	89	74	46	2.5
GROUP AVERAGES	20940	106.7	94	21.3	85	73	43	2.7
TESTED IN MID-SEASON MATURITY GROUP								
<u>CLARK 777(N)</u>	2X 16800	117.8	104	24.3	88	75	44	1.5
<u>CLARK 777B</u>	2X 18110	123.3	109	23.6	92	78	45	2.2
DEKALB XL81	2X 18410	103.3	91	22.6	97	71	44	2.3
FUNK G4697	3X 20610	115.3	102	24.1	84	76	47	2.4
HOFMEYER SX50	2X 20610	110.1	97	21.7	86	72	40	2.2
<u>PIONEER BRAND 3329</u>	M3X 20320	129.2	114	22.5	89	75	45	1.4
<u>PIONEER BRAND 3334</u>	2X 18190	122.4	108	24.7	94	76	39	2.3
<u>PIONEER BRAND 3369A</u>	2X 18920	138.2	122	23.0	87	75	47	1.1
SOUTHERN STATES 720	SP 19650	111.9	99	22.5	84	74	47	2.4
<u>TE MASTERMAKER</u>	2X 20680	127.0	112	24.3	93	76	41	1.6
TE CASHMAKER	2X 21410	105.3	93	20.2	88	70	43	2.8
TE MINTMAKER	2X 17380	110.7	98	22.3	84	74	44	2.1
TE E20YA	4X 16720	94.5	84	21.5	88	75	44	2.7
TODD M70	2X 18040	102.7	91	24.3	96	72	41	1.9
TODD M90	2X 15690	108.6	96	22.9	91	75	46	1.1
<u>TROJAN TXS121</u>	2X 19730	121.7	108	22.8	93	76	47	2.5
<u>TROJAN TXS122</u>	2X 17970	122.7	109	22.9	90	76	44	1.6
GROUP AVERAGES	18780	115.6	102	23.0	90	74	44	2.0
EXPERIMENT AVERAGES	19410	113.0	100	22.5	88	74	43	2.2

THREE-YEAR AVERAGES, 1969-70-71

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
TESTED IN EARLY MATURITY GROUP								
TE BONUSMAKER S	2X 21860	102.0	89	21.7	60	71	40	3.3
<u>TRCJAN M114</u>	3X 19550	117.3	103	22.1	72	72	45	2.7
GROUP AVERAGES	20700	109.6	96	21.9	66	71	43	3.0
TESTED IN MID-SEASON MATURITY GROUP								
FUNK G4697	3X 20050	115.1	101	24.1	63	74	45	2.5
<u>PICNEER BRAND 3329</u>	M3X 20830	126.3	110	22.7	76	73	43	2.0
<u>PICNEER BRAND 3369A</u>	2X 19260	138.2	121	22.9	80	73	46	1.2
<u>SOUTHERN STATES 720</u>	SP 19800	108.4	95	22.3	61	73	45	2.7
TE CASHMAKER	2X 21260	105.0	92	21.0	61	70	42	2.8
TE MINTMAKER	2X 18380	109.0	95	22.5	58	73	43	2.5
TE E20YA	4X 17360	100.5	88	21.7	66	73	44	2.5
TODD M70	2X 18240	106.8	93	25.4	72	71	41	1.9
TODD M90	2X 16570	116.5	102	22.3	65	74	46	1.2
<u>TRCJAN TXS121</u>	2X 19260	120.6	105	22.3	73	74	44	2.4
<u>TROJAN TXS122</u>	2X 18280	121.0	106	22.8	77	74	43	1.6
GROUP AVERAGES	19030	115.2	101	22.7	68	73	44	2.1
EXPERIMENT AVERAGES	19290	114.4	100	22.6	68	73	44	2.3

TABLE 6. CORN PERFORMANCE, PETERSBURG, VIRGINIA, 1971.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW RX58	2X 14370	82.3	91	18.0	97	66	34
ASGROW RX60	2X 13490	89.7	99	17.1	100	69	32
MUNCY CHIEF 662	15990	89.6	99	21.1	98	69	31
PICNEER BRAND 3516	2X 18230	131.4	146	20.2	97	68	36
PICNEER BRAND 3571	M2X 13490	83.4	92	19.5	98	69	33
TE BONLSMAKER S	2X 14520	71.4	79	21.1	100	71	28
TE TIMEMASTER	4X 14810	74.0	82	15.8	99	67	32
TODD M65	2X 14080	88.9	99	19.5	100	73	33
<u>TROJAN M114</u>	3X 15110	99.6	110	19.8	100	71	38
GROUP AVERAGES	14910	90.0	100	19.1	99	69	33
L.S.D.		21.2					
TESTED IN MID-SEASON MATURITY GROUP							
<u>ASGROW RX80A</u>	2X 17160	104.8	116	20.5	100	69	33
ASGROW RX100	2X 11150	72.4	80	21.9	97	72	26
FUNK G4644A	2X 11150	79.0	88	24.2	100	71	36
FUNK G4646	2X 13350	85.4	95	24.4	99	71	34
<u>FUNK G5757</u>	4X 14370	113.2	126	25.2	99	72	37
HOFMEYER SX50	2X 15400	87.3	97	21.5	99	69	28
HOFMEYER SX69A	2X 7480	63.5	70	22.7	100	73	29
<u>MCNAIR 210F EXP</u>	2X 12170	102.3	114	24.6	100	73	33
<u>MCNAIR X210</u>	2X 11150	111.5	124	24.6	99	70	32
<u>MCNAIR 2212</u>	SP 11590	112.2	124	24.3	100	75	32
<u>MCNAIR 3838</u>	SP 10710	84.5	94	25.7	100	76	39
MUNCY CHIEF 777	11880	79.3	88	20.8	96	70	32
MUNCY CHIEF 878	12610	87.9	98	24.0	99	71	38
<u>PICNEER BRAND 3306</u>	2X 16280	120.3	133	22.1	99	72	40
<u>PICNEER BRAND 3369A</u>	2X 13790	122.4	136	23.9	99	71	34
SOUTHERN STATES 720	SP 12760	80.1	89	21.8	100	71	34
SOUTHERN STATES 860	4X 12320	96.0	106	22.0	98	72	41
SOUTHERN STATES 865	4X 10850	83.7	93	24.2	100	73	37
TE MASTERMAKER	2X 9970	75.0	83	24.1	97	73	29
<u>TE CASHMAKER</u>	2X 14370	94.7	105	19.8	100	69	32
<u>TE MINTMAKER</u>	2X 12320	84.4	94	21.5	100	72	33
<u>TODD M70</u>	2X 14370	96.6	107	23.3	100	69	32
<u>TODD M90</u>	2X 11150	74.1	82	22.1	100	74	29
<u>TROJAN TXS113</u>	2X 14670	98.0	109	22.0	99	69	33

TROJAN TXS119	2X	11000	67.4	75	22.8	100	71	35
TROJAN TXS122	2X	13050	102.3	113	22.3	100	72	36
<u>VA17 X PAS1</u>	2X	12760	92.2	102	22.7	100	70	32
<u>(VA17XH49) X B37</u>	3X	13200	103.1	114	21.4	99	69	41
VA35 X PAS1	2X	10120	70.3	78	23.1	94	71	32
VA35 X H84	2X	15110	110.3	122	22.2	97	69	36
GROUP AVERAGES		12610	91.8	102	22.9	99	71	34
L.S.D.			25.0					
TESTED IN FULL SEASON MATURITY GROUP								
ASGROW RX99	2X	9390	77.6	86	24.3	100	72	32
PICNEER BRAND 3151	M3X	10120	84.7	94	25.2	100	76	39
PICNEER BRAND 3191	3X	7190	60.6	67	26.7	100	76	31
<u>PICNEER BRAND 511A</u>		12610	105.0	116	25.4	100	76	37
PICNEER BRAND 511A (F2)	F2	11000	76.4	85	26.6	99	78	39
SOUTHERN STATES 866	4X	14370	88.7	98	22.8	100	72	36
GROUP AVERAGES		10780	82.2	91	25.2	100	75	36
L.S.D.			27.6					
EXPERIMENT AVERAGES		12830	90.2	100	22.4	99	71	34
L.S.D.			24.7					

COOPERATOR: M. T. CARTER, VIRGINIA STATE COLLEGE, PETERSBURG, VIRGINIA.
 DATE PLANTED: MAY 5. DATES HARVESTED: SEPT. 20 and 23 (ALL MATURITIES).
 PLOT SIZE: 1 ROW, 30' x 3'. REPLICATIONS: 3.
 FERTILIZER APPLIED: 40-80-80 BEFORE PLANTING, PLUS 150 LBS. N SIDE-DRESSED.
 GROWING CONDITIONS: HEAVY RAINS FOLLOWING PLANTING DAMAGED SOME STANDS, BUT GOOD OTHERWISE.

TABLE 7. CORN PERFORMANCE. TWO- AND THREE-YEAR AVERAGES, PETERSBURG, VIRGINIA.

TWO-YEAR AVERAGES, 1970-71.

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
PICNEER BRAND 3516	2X 17160	108.5	128	18.1	78	65	32
<u>PICNEER BRAND 3571</u>	M2X 15620	85.4	101	17.2	88	66	29
TE BONLSMAKER S	2X 14600	68.0	80	18.0	76	67	26
TE TIMEMASTER	4X 16650	74.0	87	14.3	58	65	28
<u>TRCJAN M114</u>	3X 14960	91.7	108	17.9	85	67	34
GROUP AVERAGES	15800	85.5	101	17.1	77	66	30
TESTED IN MID-SEASON MATURITY GROUP							
<u>FUNK G5757</u>	4X 15990	100.8	119	21.8	84	70	33
HOFMEYER SX50	2X 15330	77.0	91	19.8	79	66	25
MUNCY CHIEF 777	13500	80.1	95	18.5	65	67	30
PIONEER BRAND 3306	2X 16650	103.4	122	18.5	70	70	36
<u>PICNEER BRAND 3369A</u>	2X 14960	114.4	135	21.1	83	69	35
<u>SOUTHERN STATES 720</u>	SP 12760	76.0	90	18.3	82	68	32
TE MASTERMAKER	2X 11510	72.2	85	21.2	77	69	30
TE CASHMAKER	2X 15330	82.0	97	17.1	63	66	28
TE MINTMAKER	2X 11440	71.8	85	18.8	67	69	32
TODD M70	2X 11950	72.8	86	19.4	80	66	27
TODD M90	2X 12540	77.2	91	19.0	68	69	31
<u>TROJAN TXS122</u>	2X 14010	91.4	108	19.8	86	70	31
GROUP AVERAGES	13830	84.9	100	19.5	76	68	31
TESTED IN FULL SEASON MATURITY GROUP							
PICNEER BRAND 3191	3X 10120	75.4	89	22.4	93	72	32
<u>SOUTHERN STATES 866</u>	4X 14010	87.8	104	19.1	82	69	35
GROUP AVERAGES	12060	81.6	96	20.8	87	71	34
EXPERIMENT AVERAGES	14160	84.7	100	19.0	77	68	31

THREE-YEAR AVERAGES, 1969-70-71

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
TE BCNUSMAKER S	2X 17210	70.2	82	18.6	77	68	28
GROUP AVERAGES	17210	70.2	82	18.6	77	68	28
TESTED IN MID-SEASON MATURITY GROUP							
FUNK G5757	4X 17400	95.7	112	23.3	74	71	34
PICNEER BRAND 3306	2X 17850	101.4	119	19.8	72	71	39
<u>PICNEER BRAND 3369A</u>	2X 16670	112.5	132	21.2	80	70	37
SOUTHERN STATES 720	SP 14770	76.6	90	18.3	79	70	34
TE CASHMAKER	2X 17700	83.5	98	18.7	67	68	20
TE MINTMAKER	2X 14570	74.5	87	18.9	71	71	34
TODD M70	2X 14030	72.0	84	20.0	85	67	29
TCDD M90	2X 14520	84.5	99	19.9	70	71	36
<u>TROJAN TXS122</u>	2X 15790	91.8	108	20.1	89	71	34
GROUP AVERAGES	15920	88.1	103	20.0	76	70	34
TESTED IN FULL SEASON MATURITY GROUP							
PICNEER BRAND 3191	3X 13100	78.5	92	23.8	85	73	34
SOUTHERN STATES 866	4X 14910	82.4	97	20.7	75	71	37
GROUP AVERAGES	14010	80.5	94	22.3	80	72	35
EXPERIMENT AVERAGES	15710	85.3	100	20.3	77	70	34

TABLE 8. CORN PERFORMANCE, CHARLOTTE COURT HOUSE, VIRGINIA, 1971.

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	
TESTED IN EARLY MATURITY GROUP								
<u>ASGROW RX58</u>	2X	2097C	117.7	113	27.1	56	63	44
<u>ASGROW RX60</u>	2X	21710	119.6	114	24.2	96	66	45
<u>MUNCY CHIEF 552</u>		19210	86.8	83	23.9	92	62	39
<u>NK PX610</u>	3X	2009C	110.4	106	27.7	56	68	49
<u>PICNEER BRAND 3518</u>	M2X	18770	102.2	98	28.9	96	67	42
<u>PICNEER BRAND 3571</u>	M2X	19210	107.9	103	26.9	98	67	46
<u>TE BONLSMAKER S</u>	2X	18330	90.3	86	26.8	92	70	44
<u>TE GROMASTER</u>	4X	15550	59.3	57	24.3	74	68	40
<u>TE MARKETMAKER</u>	2X	15690	85.2	82	27.0	81	66	43
<u>TRCJAN M114</u>	3X	17600	102.2	98	26.3	55	71	50
GROUP AVERAGES		18710	96.2	94	26.3	92	67	44
L.S.D.			22.5					
TESTED IN MID-SEASON MATURITY GROUP								
<u>ASGROW RX80A</u>	2X	21270	108.1	103	24.0	89	67	48
<u>ASGROW RX99</u>	2X	18770	121.2	116	25.1	95	72	49
<u>ASGROW RX100</u>	2X	18920	93.6	90	25.7	91	70	47
<u>FUNK G4646</u>	2X	13350	78.5	75	23.7	88	67	48
<u>FUNK G5757</u>	4X	14080	93.9	90	25.8	81	70	51
<u>HOFMEYER SX50</u>	2X	18480	101.6	97	24.7	85	67	46
<u>HOFMEYER SX69A</u>	2X	18770	123.8	118	25.8	90	74	51
<u>MCNAIR 210F EXP</u>	2X	15840	128.8	123	25.0	94	71	50
<u>MCNAIR X210</u>	2X	15550	113.0	108	24.7	96	71	51
<u>MCNAIR 2212</u>	SP	16130	94.4	90	25.7	95	77	51
<u>MCNAIR 3838</u>	SP	16280	102.7	98	26.3	88	75	53
<u>MUNCY CHIEF 878</u>		19210	113.6	109	25.1	86	68	52
<u>PICNEER BRAND 3306</u>	2X	20390	140.7	135	24.1	94	70	56
<u>PICNEER BRAND 3334</u>	2X	17310	117.7	113	24.0	92	70	48
<u>PICNEER BRAND 3334 F2</u>	F2	20390	66.4	64	24.3	51	75	43
<u>PICNEER BRAND 3368</u>	M2X	20090	125.8	120	23.8	93	71	51
<u>PICNEER BRAND 3369A</u>	2X	18040	113.2	108	24.1	89	70	51
<u>S STATES 720</u>	SP	15690	80.6	77	21.8	74	69	49
<u>S STATES 860</u>	4X	13790	88.1	84	24.1	69	72	52
<u>S STATES 865</u>	4X	18920	105.8	101	26.0	86	72	52
<u>TE CASHMAKER</u>	2X	19360	84.6	81	25.3	78	68	48
<u>TE E204A</u>	4X	15550	98.1	94	22.4	82	69	51
<u>TRCJAN TXS112</u>	2X	19360	129.4	124	24.4	92	69	46
<u>TRCJAN TXS113</u>	2X	14520	88.4	85	26.0	93	67	49
<u>TRCJAN TXS119</u>	2X	11290	80.2	77	24.1	86	70	50
<u>TROJAN TXS122</u>	2X	20680	111.6	107	24.0	88	74	52
<u>WATSON 199T</u>		13930	86.0	82	24.9	85	73	47
<u>WATSON 416</u>		17890	96.1	92	25.3	87	74	52
<u>WATSON 416A</u>		17160	105.1	101	24.9	94	69	53
<u>VA60 X H84</u>	2X	19650	125.7	120	26.2	94	72	51
<u>VA61 X PA91</u>	2X	17450	144.5	138	24.8	97	70	49
<u>VA35 X H84</u>	2X	18330	126.6	121	26.3	94	67	51
<u>VA59 X H84</u>	2X	18480	124.8	119	25.0	97	68	47
<u>VA17 X PA91</u>	2X	15550	104.3	100	24.7	92	71	46
GROUP AVERAGES		17370	106.4	102	24.8	89	71	50
L.S.D.			25.0					
EXPERIMENT AVERAGES		17670	104.5	100	25.1	90	70	48
L.S.D.			25.4					

COOPERATOR: R. R. WILMOUTH, SOUTHSIDE VIRGINIA RESEARCH STATION, CHARLOTTE C. H., VA.

DATE PLANTED: MAY 4. DATES HARVESTED: EARLY, SEPTEMBER 24,

MEDIUM, OCTOBER 13.

FERTILIZER APPLIED: 100-100-100 BEFORE PLANTING PLUS 60 LBS. N ON JUNE 15.

PLOT SIZE: 1 ROW 30' x 3' REPLICATIONS: 3.

GROWING CONDITIONS: VERY GOOD EXCEPT FOR A SEVERE WINDSTORM ON JUNE 29, AND A DRY MID-JULY. IRRIGATED JULY 19 AND 20 WITH 1" EACH DAY.

TABLE 9. TWO- AND THREE-YEAR AVERAGES, CORN PERFORMANCE, CHARLOTTE COURT HOUSE, VIRGINIA.

TWO-YEAR AVERAGES, 1970-71.

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
MUNCY CHIEF 552	19580	75.3	80	22.1	91	64	33
NK PX610	3X 20530	91.9	98	23.8	94	69	39
PICNEER BRAND 3571	M2X 19870	93.6	100	23.3	96	68	37
TE BONUSMAKER S	2X 20680	87.1	93	23.3	89	70	36
TE MARKETMAKER	2X 18850	79.9	85	23.3	85	67	36
TROJAN M114	3X 17970	93.5	100	23.2	94	71	40
GROUP AVERAGES	19580	86.9	93	23.2	92	68	37
TESTED IN MID-SEASON MATURITY GROUP							
FUNK G5757	4X 18560	99.0	106	23.3	87	72	42
HOFMEYER SX50	2X 19880	97.5	104	22.8	87	69	38
PICNEER BRAND 3306	2X 20680	117.9	126	22.0	92	72	43
PICNEER BRAND 3334	2X 19140	102.6	109	22.1	92	72	39
PIONEER BRAND 3369A	2X 18920	106.4	113	22.3	90	71	41
S STATES 720	SP 17890	83.7	89	20.8	82	70	40
TE CASHMAKER	2X 21050	78.5	84	22.3	83	70	38
TE E204A	4X 15400	85.2	91	21.6	88	71	40
TROJAN TXS112	2X 18560	108.4	116	22.7	88	71	37
TROJAN TXS122	2X 20460	100.4	107	22.3	87	74	41
GROUP AVERAGES	19050	98.0	104	22.2	88	71	40
EXPERIMENT AVERAGES	19250	93.8	100	22.6	89	70	39

THREE-YEAR AVERAGES, 1969-70-71

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
NK PX610	3X 20290	97.9	95	23.5	92	67	38
TE BONUSMAKER S	2X 21410	98.6	96	23.4	90	68	37
TROJAN M114	3X 18480	102.7	100	23.0	94	68	40
GROUP AVERAGES	20060	99.8	97	23.3	92	68	38
TESTED IN MID-SEASON MATURITY GROUP							
FUNK G5757	4X 18970	109.2	106	23.0	86	70	42
PIONEER BRAND 3306	2X 20480	122.6	119	21.6	94	71	42
PICNEER BRAND 3369A	2X 19210	118.2	115	21.9	93	70	41
S STATES 720	SP 18620	94.9	92	20.8	84	70	40
TE CASHMAKER	2X 20780	88.5	86	21.8	83	69	37
TE E204A	4X 16380	93.6	91	21.7	89	70	40
TROJAN TXS122	2X 19950	104.8	102	22.1	88	72	39
GROUP AVERAGES	19200	104.5	101	21.8	88	70	40
EXPERIMENT AVERAGES	19460	103.1	100	22.3	89	70	40

TABLE 10. CORN PERFORMANCE, ORANGE, VIRGINIA, 1971.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	FCT ERECT	DAYS TO SILK	EAR HT. IN.	
TESTED IN EARLY MATURITY GROUP								
ASGROW RX58	2X	22730	120.4	92	19.4	97	72	31
ASGROW RX60	2X	21850	125.0	95	17.2	100	76	40
<u>CLARK EXP9395</u>	2X	18480	146.1	111	20.7	98	78	40
<u>DEKALB XL66</u>	2X	21270	155.0	118	22.0	100	75	32
<u>FUNK G455C</u>	2X	18770	132.4	101	23.3	100	77	38
MCCURDY MSP777	3X	14230	89.3	68	18.8	95	77	43
MUNCY CHIEF 552		19070	80.1	61	14.9	98	70	27
MUNCY CHIEF 662		19950	117.9	90	22.2	99	76	34
PICNEER BRAND 3518	M2X	21270	126.5	96	21.5	100	75	33
PICNEER BRAND 3570	2X	22150	120.5	92	20.2	99	76	35
<u>PIONEER BRAND 3571</u>	M2X	19950	159.6	122	19.2	99	76	35
<u>TE BONLSMAKER S</u>	2X	18190	101.7	77	20.4	98	79	39
<u>TE TIMEMASTER</u>	4X	19800	148.9	113	16.6	100	74	37
<u>TODD M65</u>	2X	17010	120.4	92	19.7	98	79	42
TRQJAN M114	3X	18770	126.1	96	20.6	100	79	41
GROUP AVERAGES		19570	124.7	95	19.8	99	76	36
L.S.D.			43.7					
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW RX80A	2X	21270	120.3	92	19.4	94	77	38
ASGROW RX100	2X	18190	109.8	84	22.1	97	79	40
CLARK 777 (N)	2X	16430	138.0	105	22.3	96	76	44
CLARK 777B	2X	15550	115.4	88	20.4	103	77	39
CLARK 777 (T)	2X	16870	133.8	102	20.6	96	76	42
<u>CLARK 777 (B)</u>	2X	17450	139.8	106	22.2	97	80	47
<u>DEKALB XL81</u>	2X	18630	136.5	104	21.1	97	75	46
<u>FUNK G4644A</u>	2X	19650	118.5	90	22.1	98	79	45
<u>FUNK G4646</u>	2X	19800	146.0	111	20.5	99	74	43
<u>FUNK G4697</u>	3X	17750	148.7	113	21.9	93	77	49
HOFMEYER SX50	2X	20830	116.4	89	21.0	96	75	40
<u>HOFMEYER SX69A</u>	2X	19070	151.2	115	22.9	98	79	46
<u>MCCURDY MSX66</u>	2X	20240	139.7	106	20.4	95	79	55
<u>MCCURDY MSX88</u>	2X	18480	152.8	116	22.5	97	77	42
<u>MCCURDY MSP999</u>	3X	17160	104.0	79	18.5	93	78	43
<u>MCCURDY 67-10</u>	2X	19360	158.6	121	20.7	99	77	51
<u>MCNAIR 210F EXP</u>	2X	16280	139.1	106	22.0	98	79	45
<u>MCNAIR X210</u>	2X	18920	147.1	112	23.0	97	78	52

MCNAIR 2212	SP	16870	119.3	91	21.8	97	82	45
MCNAIR 3838	SP	17750	139.0	106	22.9	99	81	45
MUNCY CHIEF 770		20090	112.4	86	19.0	95	78	45
MUNCY CHIEF 777		19360	117.3	89	20.3	96	76	44
MUNCY CHIEF 878		19210	145.8	111	22.4	94	78	44
MUNCY CHIEF 888		14230	104.8	80	19.4	93	76	46
PIONEER BRAND 3368	M2X	17600	154.4	118	21.9	97	80	46
PIONEER BRAND 3369A	2X	20680	163.8	125	20.9	99	79	47
S STATES 720	SP	20530	116.2	88	21.1	79	79	55
S STATES 860	4X	15250	108.4	83	20.4	94	78	48
S STATES 865	4X	18190	153.1	117	21.5	98	79	47
TE GROMASTER	4X	15840	131.3	100	22.3	97	80	39
TE CASHMAKER	2X	16280	129.4	99	19.9	93	76	41
TE EX6924w	4X	20090	148.9	113	22.0	91	76	47
TE E20YA	4X	19360	121.8	93	19.6	95	78	50
TODD M70	2X	15840	131.8	100	21.2	98	76	40
TODD M90	2X	13930	123.6	94	20.8	97	80	45
TROJAN TXS113	2X	17890	143.2	109	21.6	95	75	45
H84 XPA91	2X	16720	152.9	116	23.2	97	79	43
INCH84 XVA6C	2X	18330	168.7	129	22.9	97	78	46
M017 XPA91	2X	20090	172.8	132	22.9	98	79	44
VA52 XPA91	2X	17750	150.3	115	21.5	98	80	43
VA17 XPA91	2X	19950	137.6	105	21.4	100	79	46
GROUP AVERAGES		18140	135.7	103	21.3	96	78	45
L.S.D.			26.1					
TESTED IN FULL SEASON MATURITY GROUP								
ASGROW RX99	2X	18920	118.9	91	24.4	98	82	44
FUNK G5757	4X	21120	127.7	97	24.2	97	84	46
PIONEER BRAND 3306	2X	18770	118.7	90	21.8	98	85	49
PIONEER BRAND 3308	3X	17890	130.2	99	21.2	98	84	52
PIONEER BRAND 3334	2X	16430	111.9	85	21.7	99	85	38
S STATES 909E	4X	16570	100.0	76	23.0	99	93	60
GROUP AVERAGES		18280	117.9	90	22.7	98	85	48
L.S.D.			30.8					
EXPERIMENT AVERAGES		18500	131.3	100	21.1	97	78	43
L.S.D.			31.6					

COOPERATOR: G. D. JONES, PIEDMONT RESEARCH STATION, ORANGE, VIRGINIA.

DATE PLANTED: MAY 3. DATES HARVESTED: EARLY, OCT. 10,
MEDIUM, OCT. 21,
FULL SEASON, NOV. 1.

PLOT SIZE: 1 ROW, 30' x 3'. REPLICATIONS: 3.

FERTILIZER APPLIED: 150-100-100 BEFORE PLANTING.

GROWING CONDITIONS: VERY GOOD EXCEPT FOR A HEAVY RAINSTORM MAY 20 WHICH DAMAGED A VERY FEW PLOTS. MISSING PLOT DATA WERE CALCULATED FOR DAMAGED PLOTS.

TABLE 11. CORN PERFORMANCE, ORANGE, VIRGINIA, 1971.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
<u>ASGFOW RX58</u>	2X	24200	119.7	111	28.5	85	46
<u>ASGROW RX60</u>	2X	23910	121.8	112	24.5	85	50
<u>CLARK EXP9395</u>	2X	20680	127.9	118	36.2	96	51
<u>DEKALB XL66</u>	2X	21850	112.7	104	36.0	100	49
<u>FUNK G4550</u>	2X	20240	118.6	109	35.9	100	53
<u>MCCURDY MSP777</u>	3X	20830	83.5	77	28.2	70	51
<u>MUNCY CHIEF 552</u>		19510	65.8	61	26.5	76	46
<u>MUNCY CHIEF 662</u>		21120	95.8	88	36.6	92	50
<u>PIGNEER BRAND 3518</u>	M2X	22290	113.1	104	36.7	100	50
<u>PICNEER BRAND 3570</u>	2X	22590	103.4	95	30.2	95	49
<u>PICNEER BRAND 3571</u>	M2X	22000	112.9	104	34.7	100	51
<u>TE BCNUSMAKER S</u>	2X	19800	85.7	79	33.8	88	52
<u>TE TIMEMASTER</u>	4X	23170	56.0	52	23.5	77	47
<u>TODD M65</u>	2X	19070	113.9	105	33.0	87	51
<u>TROJAN M114</u>	3X	22290	125.2	116	33.1	100	51
GROUP AVERAGES		21570	102.7	96	31.9	90	50
L.S.D.			15.5				41
TESTED IN MID-SEASON MATURITY GROUP							
<u>ASGROW RX80A</u>	2X	21270	94.0	87	24.0	82	52
<u>ASGROW RX100</u>	2X	20680	97.7	90	27.0	80	52
<u>CLARK 777 (N)</u>	2X	20090	113.0	104	25.3	82	52
<u>CLARK 777B</u>	2X	20680	111.8	103	26.7	82	55
<u>CLARK 777 (T)</u>	2X	20240	74.1	68	24.7	43	51
<u>CLARK 777 (B)</u>	2X	18330	56.9	53	23.2	58	50
<u>DEKALB XL81</u>	2X	21120	117.3	108	26.8	86	51
<u>FUNK G4644A</u>	2X	22440	123.6	114	26.9	85	53
<u>FUNK G4646</u>	2X	20090	123.9	114	27.5	94	51
<u>FUNK G4697</u>	3X	21560	123.2	114	27.4	81	52
<u>HOFMEYER SX50</u>	2X	21560	110.7	102	25.3	84	50
<u>HOFMEYER SX69A</u>	2X	19210	110.0	102	28.5	79	56
<u>MCCURDY MSX66</u>	2X	21710	126.0	116	26.3	89	55
<u>MCCURDY MSX88</u>	2X	21710	115.2	106	24.6	69	51
<u>MCCURDY MSP999</u>	3X	20680	58.6	54	22.8	62	51
<u>MCCURDY 67-10</u>	2X	21710	140.3	130	25.4	95	51
<u>MCNAIR 210F EXP</u>	2X	16870	112.9	104	26.4	83	54
<u>MCNAIR X210</u>	2X	18920	114.6	106	27.1	74	55

<u>MCNAIR 2212</u>	SP 20240	123.0	114	28.3	86	58	42
<u>MCNAIR 3838</u>	SP 19360	129.7	120	28.7	85	56	52
<u>MUNCY CHIEF 770</u>	19950	58.4	54	25.7	54	53	40
<u>MUNCY CHIEF 777</u>	20970	74.7	69	23.2	57	51	39
<u>MUNCY CHIEF 878</u>	20390	130.5	120	28.4	88	52	47
<u>MUNCY CHIEF 888</u>	19070	44.8	41	22.9	29	50	42
<u>PIONEER BRAND 3368</u>	M2X 21850	144.4	133	24.8	90	52	49
<u>PIONEER BRAND 3369A</u>	2X 21850	142.1	131	26.2	93	52	46
<u>S STATES 720</u>	SP 22590	83.7	77	24.7	58	54	51
<u>S STATES 860</u>	4X 18040	95.8	88	25.0	73	54	56
<u>S STATES 865</u>	4X 20970	136.8	126	25.9	83	54	53
<u>TE GROMASTER</u>	4X 22290	58.3	54	21.2	66	48	42
<u>TE CASHMAKER</u>	2X 21710	99.4	92	22.6	66	50	42
<u>TE EX6924W</u>	4X 23760	132.4	122	34.9	80	57	49
<u>TE E20YA</u>	4X 20830	114.9	106	23.7	73	51	50
<u>TODD M70</u>	2X 22730	123.9	114	26.7	87	52	36
<u>TODD M90</u>	2X 16130	64.8	78	24.6	64	53	41
<u>TROJAN TXS113</u>	2X 22150	136.0	126	26.6	91	49	49
<u>H84 XPA91</u>	2X 20970	134.1	124	28.0	82	53	48
<u>INDH84 XVA60</u>	2X 20680	131.7	122	27.5	87	55	41
<u>MO17 XPA91</u>	2X 20530	126.7	117	25.2	77	53	50
<u>VA52 XPA91</u>	2X 20970	122.2	113	26.2	86	56	47
<u>VA17 XPA91</u>	2X 19650	96.1	89	25.6	77	54	47
GROUP AVERAGES	20650	108.5	100	25.5	77	53	45
L.S.D.		21.0					
TESTED IN FULL SEASON MATURITY GROUP							
ASGROW RX99	2X 18480	93.2	86	30.1	78	55	44
FUNK G5757	4X 22880	130.6	121	28.5	69	54	48
<u>PIONEER BRAND 3306</u>	2X 20970	133.1	123	29.9	87	57	48
<u>PIONEER BRAND 3308</u>	3X 19800	120.3	111	30.3	87	56	45
<u>PIONEER BRAND 3334</u>	2X 18630	108.2	100	30.1	88	56	44
S STATES 909E	4X 20830	124.9	115	31.1	79	60	51
GROUP AVERAGES	20260	118.4	109	30.0	81	56	47
L.S.D.		23.3					
EXPERIMENT AVERAGES	20830	108.3	100	27.7	81	52	44
L.S.D.		20.0					

COOPERATOR: G. D. JONES, PIEDMONT RESEARCH STATION, ORANGE, VIRGINIA.

DATE PLANTED: MAY 21. DATE HARVESTED: EARLY, OCT. 14,
MEDIUM, OCT. 22,
FULL SEASON, NOV. 4.

FERTILIZER APPLIED: 150-100-100 BEFORE PLANTING.

GROWING CONDITIONS: GOOD.

TABLE 12. TWO- AND THREE-YEAR AVERAGES, CORN PERFORMANCE, ORANGE, VIRGINIA.*

TWO-YEAR AVERAGES, 1970-71.*

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
<u>DEKALB XL66</u>	2X 21490	121.9	115	21.6	86	63	35
<u>FUNK G455C</u>	2X 18700	116.8	110	22.3	91	65	35
<u>MUNCY CHIEF 552</u>	18520	80.8	76	16.4	87	59	30
<u>PIONEER BRAND 3518</u>	M2X 19470	114.9	109	22.2	93	65	37
<u>PIONEER BRAND 3571</u>	M2X 19870	119.3	113	20.1	95	64	36
<u>TE BONUSMAKER S</u>	2X 18590	89.9	85	20.2	81	65	34
<u>TE TIMEMASTER</u>	4X 19320	88.1	83	16.2	77	61	35
<u>TODD M65</u>	2X 17090	101.7	96	19.5	90	66	39
<u>TROJAN M114</u>	3X 18040	109.5	104	20.1	95	65	39
GROUP AVERAGES	19010	104.8	99	19.8	88	64	35
TESTED IN MID-SEASON MATURITY GROUP							
<u>CLARK 777 (N)</u>	2X 16610	111.6	106	19.7	87	66	38
<u>CLARK 777B</u>	2X 17640	115.1	109	19.8	87	68	39
<u>DEKALB XL81</u>	2X 19980	120.0	113	19.3	79	64	39
<u>FUNK G4697</u>	3X 19070	121.5	115	19.7	81	66	41
<u>HOFMEYER SX50</u>	2X 19470	106.6	101	18.6	80	64	36
<u>MCCURDY MSX66</u>	2X 19870	121.3	115	18.7	88	67	45
<u>MCCURDY MSP999</u>	3X 18780	91.4	86	17.6	74	66	38
<u>MUNCY CHIEF 770</u>	20130	90.4	85	18.3	65	66	37
<u>MUNCY CHIEF 777</u>	18590	95.7	90	17.9	71	65	36
<u>MUNCY CHIEF 888</u>	16020	78.7	74	17.5	54	64	40
<u>PIONEER BRAND 3369A</u>	2X 18770	134.5	127	19.0	91	66	41
<u>S STATES 720</u>	SP 19220	99.5	94	18.1	66	66	48
<u>S STATES 860</u>	4X 15440	96.6	91	18.7	74	67	47
<u>TE CASHMAKER</u>	2X 19760	108.0	102	17.4	67	64	37
<u>TE E20YA</u>	4X 17890	102.7	97	18.1	80	66	43
<u>TODD M70</u>	2X 18000	108.3	102	19.1	87	65	34
<u>TODD M90</u>	2X 15510	103.0	97	18.7	73	67	39
GROUP AVERAGES	18280	106.2	100	18.6	77	66	40
TESTED IN FULL SEASON MATURITY GROUP							
<u>PIONEER BRAND 3306</u>	2X 18810	117.7	111	20.4	86	70	43
<u>PIONEER BRAND 3334</u>	2X 16460	102.7	97	20.5	91	69	38
<u>S STATES 909E</u>	4X 17350	98.4	93	21.1	81	74	49
GROUP AVERAGES	17540	106.3	100	20.7	86	71	43
EXPERIMENT AVERAGES	18430	105.7	100	19.2	81	66	39

THREE-YEAR AVERAGES, 1969-70-71*

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
<u>DEKALB XL66</u>	2X 21370	130.8	112	20.0	88	67	38
<u>PICNEER BRAND 3518</u>	M2X 19490	118.2	102	20.0	93	70	37
<u>PICNEER BRAND 3571</u>	M2X 21280	126.6	109	18.6	97	69	39
<u>TE BCNUSMAKER S</u>	2X 20140	103.0	89	19.0	87	69	36
GROUP AVERAGES	20570	119.7	103	19.4	91	69	38
TESTED IN MID-SEASON MATURITY GROUP							
<u>FUNK G4697</u>	3X 19580	123.6	106	18.7	85	70	43
<u>HOFMEYER SX50</u>	2X 20020	119.2	102	18.9	87	69	38
<u>MCCURDY MSX66</u>	2X 19760	120.1	103	17.6	89	71	46
<u>MCCURDY MSP999</u>	3X 19030	106.8	92	17.1	81	70	45
<u>MUNCY CHIEF 770</u>	20810	100.9	87	17.6	77	70	40
<u>PIONEER BRAND 3369A</u>	2X 19150	141.3	121	18.1	93	70	45
<u>S STATES 720</u>	SP 19670	104.9	90	17.3	75	70	48
<u>S STATES 860</u>	4X 16450	104.0	89	17.6	80	71	49
<u>TE CASHMAKER</u>	2X 20510	117.9	101	16.9	77	68	41
<u>TE E20YA</u>	4X 18260	110.7	95	17.4	85	70	45
<u>TODD M70</u>	2X 18160	118.3	102	18.3	90	69	38
<u>TODD M90</u>	2X 16500	114.1	98	17.9	80	71	44
GROUP AVERAGES	18990	115.1	99	17.8	83	70	43
TESTED IN FULL SEASON MATURITY GROUP							
<u>PICNEER BRAND 3306</u>	2X 19220	126.9	109	18.8	89	73	46
<u>S STATES 909E</u>	4X 17720	106.4	91	19.2	83	77	53
GROUP AVERAGES	18470	116.6	100	19.0	86	75	49
EXPERIMENT AVERAGES	19290	116.3	100	18.3	85	70	43

*INCLUDES THE COMBINED DATA FROM TWO DATES OF PLANTING, 1971.

TABLE 13. CORN PERFORMANCE, BLACKSBURG, VIRGINIA, 1971.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW RX58	2X 22290	155.0	113	21.3	93	77	40
<u>ASGROW RX60</u>	2X 23760	154.5	113	19.0	96	79	43
<u>MUNCY CHIEF 662</u>		21850	141.4	104	23.5	79	39
PIONEER BRAND 3516	2X 20530	135.2	99	22.6	98	79	41
PIONEER BRAND 3518	M2X 22000	118.8	87	22.3	97	80	37
PIONEER BRAND 3570	2X 23030	125.9	92	21.5	97	80	44
PIONEER BRAND 3571	M2X 21560	133.3	98	21.7	95	81	42
STULL 707 SX	2X 19800	119.6	88	23.0	97	80	45
TE BONUSMAKER S	2X 20390	119.1	87	21.2	93	82	42
TE MARKETMAKER	2X 18480	104.4	76	21.4	89	78	45
TODD M65	2X 14670	127.1	93	20.7	100	84	43
<u>TROJAN M114</u>	3X 21850	166.0	122	23.1	99	81	45
<u>VA26 X VA52</u>	2X 22000	177.6	130	24.1	99	82	45
<u>VA26 X A632</u>	2X 19360	145.2	106	19.8	95	78	44
GROUP AVERAGES	20830	137.4	101	21.8	96	80	43
L.S.D.		25.0					
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW RX80A	2X 19070	125.8	92	21.1	97	83	40
ASGROW RX100	2X 16130	103.2	76	26.3	95	87	44
<u>CLARK 777(N)</u>	2X 16870	156.4	115	26.5	99	84	45
<u>CLARK 777(B)</u>	2X 16570	131.2	96	25.5	97	84	44
<u>CLARK 777(T)</u>	2X 18770	139.3	102	25.4	98	84	45
<u>CLARK 777B</u>	2X 19210	171.6	126	26.7	99	88	49
HOFMEYER SX50	2X 19950	125.7	92	23.2	90	80	39
<u>HOFMEYER SX69A</u>	2X 20390	159.2	117	27.5	95	88	51
HOFMEYER EXP2	2X 20680	137.1	100	23.8	94	88	45
<u>MCNAIR 210F EXP</u>	2X 16570	139.6	102	25.0	95	84	45
<u>MCNAIR X210</u>	2X 16720	146.6	107	25.6	95	85	42
<u>MCNAIR 2212</u>	SP 18480	158.9	116	25.5	97	89	48
MCNAIR 3838	SP 17310	143.1	105	27.4	94	90	56
MUNCY CHIEF 878	16570	129.6	95	24.1	95	82	45
<u>PIONEER BRAND 3368</u>	M2X 20970	154.1	113	24.4	99	87	46
<u>PIONEER BRAND 3369A</u>	2X 20390	152.2	111	23.4	96	85	46
S STATES 720	SP 20390	135.3	99	23.8	86	86	51
S STATES 860	4X 13490	109.6	80	24.0	98	86	49
S STATES 865	4X 19510	135.4	99	24.6	98	88	46

STULL 560 WSP	SP	12470	112.0	82	26.1	95	89	56
STULL M20 SX	2X	18190	152.6	112	23.0	93	85	47
STULL 807 SX	2X	17010	148.4	109	25.1	91	86	48
STULL 809 SX	2X	19210	153.8	113	24.6	94	86	49
STULL 809 ASP	SP	15840	127.6	93	24.7	88	87	50
STULL 877 SX	2X	17310	142.9	105	26.6	93	86	45
STULL 907YSP	SP	13050	96.6	71	25.9	73	92	59
TE MASTERMAKER	2X	13050	116.5	85	25.9	100	87	39
TE CASHMAKER	2X	20390	144.6	106	24.0	96	81	46
TE MINTMAKER	2X	18920	141.8	104	25.7	90	85	46
TE M20W	4X	20830	164.2	120	25.8	94	90	56
TODD M70	2X	17010	126.7	93	24.6	97	81	36
TODD M90	2X	17010	137.2	100	23.2	96	86	44
VA53 X VA36	2X	19210	149.7	110	22.3	97	87	48
INDH84 X VA60	2X	20240	156.9	115	27.6	95	88	45
VA59 X PA91	2X	19650	160.1	117	24.3	99	82	43
INDH84 X PA91	2X	19360	143.5	105	25.6	97	85	44
GROUP AVERAGES		17970	139.7	102	25.0	95	86	47
L.S.D.			18.1					
TESTED IN FULL SEASON MATURITY GROUP								
ASGROW RX99	2X	15550	121.4	89	26.6	94	86	46
CONTINENTAL GIGANTE (FLINT)		13050	66.5	49	25.5	87	89	50
PIONEER BRAND 3306	2X	21410	136.6	100	24.1	91	89	48
PIONEER BRAND 3308	3X	18480	132.7	97	24.7	97	87	45
PIONEER BRAND 3334	2X	18190	132.2	97	23.8	99	87	40
PIONEER BRAND 3334 F2	F2	19550	72.8	53	25.7	79	92	35
S STATES 909E	4X	16870	135.6	99	26.6	96	92	60
TE SILAGEMAKER	4X	18920	128.4	94	26.1	89	83	42
TE EXP 6924W	4X	19510	153.3	112	30.1	99	95	55
PA91 X VA58	2X	19360	163.1	119	27.4	95	89	46
GROUP AVERAGES		18130	124.2	91	26.1	93	89	47
L.S.D.			13.9					
EXPERIMENT AVERAGES		18660	136.6	100	24.4	95	85	46
L.S.D.			18.8					

COOPERATOR: C. F. GENTER, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY,
BLACKSBURG, VIRGINIA.

DATE PLANTED: APRIL 29. DATE HARVESTED: NOV. 5 (ALL MATURITIES).

PLOT SIZE: 1 ROW 30' x 3'. REPLICATIONS: 3.

FERTILIZER APPLIED: 150-150-150 BEFORE PLANTING.

GROWING SEASON: GOOD.

TABLE 14. TWO- AND THREE-YEAR AVERAGES, CORN PERFORMANCE, BLACKSBURG, VIRGINIA.

TWO-YEAR AVERAGES, 1970-71.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
PIONEER BRAND 3518	M2X 19990	111.8	92	21.9	95	75	40
PIONEER BRAND 3571	M2X 19520	119.0	98	19.8	97	73	37
STULL 7C7 SX	2X 19470	98.8	81	20.6	90	72	39
TE BONUSMAKER S	2X 20200	108.0	89	19.9	93	74	37
TE MARKETMAKER	2X 18960	94.7	78	18.8	93	71	39
<u>TROJAN M114</u>	3X 19340	133.2	110	20.5	97	74	40
<u>VA26 X VA52</u>	2X 20570	144.1	118	21.4	97	74	38
GROUP AVERAGES	19780	115.7	95	20.4	95	73	39
TESTED IN MID-SEASON MATURITY GROUP							
HOFMEYER SX50	2X 19400	111.6	92	22.2	93	72	37
<u>PIONEER BRAND 3369A</u>	2X 18750	141.4	116	22.7	98	76	45
S STATES 720	SP 19040	114.2	94	21.0	86	77	47
S STATES 86C	4X 14720	95.9	79	22.0	88	77	49
STULL M20 SX	2X 18660	132.3	109	22.3	90	77	45
<u>STULL 809 SX</u>	2X 18890	123.6	102	24.1	94	78	42
TE MASTERMAKER	2X 16100	114.9	94	24.8	97	77	39
TE CASHMAKER	2X 20340	119.5	98	20.9	95	74	39
TE MINTMAKER	2X 17150	114.0	94	22.7	88	77	44
<u>VA53 X VA36</u>	2X 19760	133.6	110	20.2	97	78	43
<u>INDH84 X VA60</u>	2X 20420	149.8	123	26.6	97	80	43
<u>VA59 X PA91</u>	2X 19690	146.0	120	23.0	99	75	42
<u>INDH84 X PA91</u>	2X 19830	140.7	116	24.3	98	77	42
GROUP AVERAGES	18670	126.0	104	22.8	94	76	43
TESTED IN FULL SEASON MATURITY GROUP							
<u>PIONEER BRAND 3306</u>	2X 21150	122.9	101	21.6	94	78	46
<u>PIONEER BRAND 3334</u>	2X 17210	117.2	96	20.9	100	77	39
S STATES 909E	4X 14960	110.8	91	24.6	91	81	55
GROUP AVERAGES	17770	117.0	96	22.4	95	79	47
EXPERIMENT AVERAGES	18890	121.6	100	22.0	94	76	42

THREE-YEAR AVERAGES, 1969-70-71

	PLANTS /ACRE	YIELD BL/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
PICNEER BRAND 3518	M2X 19960	113.3	95	21.7	93	77	40
STULL 707 SX	2X 20610	115.6	97	21.8	90	73	37
TE BONUSMAKER S	2X 21210	119.3	100	21.3	91	74	37
GROUP AVERAGES	20590	116.1	97	21.6	91	75	38
TESTED IN MID-SEASON MATURITY GROUP							
<u>PICNEER BRAND 3369A</u>	2X 19360	140.0	117	21.7	93	76	44
S STATES 72C	SP 19560	119.4	100	20.0	87	77	44
S STATES 860	4X 16090	101.2	85	21.6	85	79	47
<u>STULL M20 SX</u>	2X 19480	133.4	112	22.5	92	77	44
<u>TE CASHMAKER</u>	2X 21250	128.1	107	20.1	93	74	39
<u>TE MINTMAKER</u>	2X 18060	111.2	93	21.4	82	77	42
GROUP AVERAGES	18970	122.2	102	21.3	89	77	43
TESTED IN FULL SEASON MATURITY GROUP							
<u>PICNEER BRAND 3306</u>	2X 20960	124.1	104	21.0	93	79	45
S STATES 909E	4X 16140	109.6	92	23.5	89	83	51
GROUP AVERAGES	18550	116.8	98	22.3	91	81	48
EXPERIMENT AVERAGES	19330	119.6	100	21.6	90	77	43

TABLE 15. CORN PERFORMANCE, GLADE SPRING, VIRGINIA, 1971.

		PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP								
ASGROW RX58	2X	18720	145.2	108	20.3	80	70	43
ASGROW RX60	2X	18850	148.1	107	19.5	87	72	47
FUNK G4550	2X	17340	152.2	110	23.0	89	72	49
PICNEER BRAND 3518	M2X	18220	124.1	89	23.2	88	72	41
TE BONLSMAKER S	2X	16840	109.9	79	22.0	90	75	49
TE MARKETMAKER	2X	17090	106.9	77	21.5	81	71	47
TROJAN M114	3X	17970	137.3	99	23.5	87	75	55
VA26 X A632	2X	14580	117.5	85	21.1	96	71	45
<u>VA26 X VA52</u>	2X	18220	163.2	118	22.9	90	73	55
GROUP AVERAGES		17540	134.3	97	21.9	87	72	48
L.S.D.			26.2					
TESTED IN MID-SEASON MATURITY GROUP								
VA43 X VA36	2X	18600	167.1	120	27.8	89	78	50
ASGROW RX80A	2X	17340	142.9	103	22.7	98	77	53
<u>ASGROW RX100</u>	2X	14550	119.6	86	25.8	95	83	55
DEKALB S900		12440	86.1	62	32.7	86	78	56
HOFMEYER SX50	2X	17220	125.7	91	24.3	84	72	48
HOFMEYER SX69A	2X	15710	152.1	110	30.8	95	83	55
<u>MCNAIR 21CF EXP</u>	2X	13950	154.0	111	24.0	91	80	57
<u>MCNAIR X210</u>	2X	14330	143.2	103	27.4	98	81	55
<u>MCNAIR 2212</u>	SP	15330	160.1	115	26.7	98	86	55
<u>MCNAIR 3838</u>	SP	15210	149.2	108	29.1	91	86	61
MUNCY CHIEF 777		15460	125.3	90	23.3	95	72	51
MUNCY CHIEF 878		16210	153.0	110	24.5	95	74	51
<u>PIONEER BRAND 3368</u>	M2X	15710	152.5	110	24.6	96	84	49
<u>PICNEER BRAND 3369A</u>	2X	17340	149.1	107	25.7	100	80	60
S STATES 720	SP	16840	141.6	102	23.8	63	84	55
S STATES 860	4X	10560	101.1	73	26.3	74	84	55
S STATES 865	4X	16210	138.5	100	25.4	96	86	57
TE CASHMAKER	2X	18350	144.5	104	23.3	90	74	47
TE TIMEMASTER	4X	13570	90.2	65	19.2	91	69	39
TROJAN TXS112	2X	16710	150.1	108	22.5	98	75	44
<u>TROJAN TXS122</u>	2X	18220	159.8	115	23.2	92	83	49
<u>VA60 X H84</u>	2X	17220	154.4	111	28.3	96	80	48
<u>VA26 X VA59</u>	2X	17090	151.4	109	21.1	85	72	50
GROUP AVERAGES		15850	135.6	101	25.3	91	79	52
L.S.D.			22.6					
TESTED IN FULL SEASON MATURITY GROUP								
ASGROW RX99	2X	16090	134.1	97	27.3	97	78	51
<u>PICNEER BRAND 3306</u>	2X	17220	159.4	115	25.2	96	83	58
<u>PIONEER BRAND 3308</u>	3X	13950	135.3	98	27.1	97	85	47
S STATES 909E	4X	14070	144.8	104	26.0	79	85	67
GROUP AVERAGES		15330	143.4	103	26.4	93	83	55
L.S.D.			17.8					
EXPERIMENT AVERAGES		16210	138.7	100	24.6	90	78	51
L.S.D.			22.9					

COOPERATOR: L. A. LINK, SOUTHWEST VIRGINIA RES. STATION, GLADE SPRING, VIRGINIA.
 DATE PLANTED: MAY 12. DATE HARVESTED: OCTOBER 21 (ALL MATURITIES).
 PLOT SIZE: 1 ROW 30' x 3 1/2'/ REPLICATIONS: 3.
 FERTILIZER APPLIED: 120-80-80 BEFORE PLANTING PLUS 50 LBS. N ON JUNE 15.
 GROWING CONDITIONS: GOOD TO VERY GOOD.

TABLE 16. TWO- AND THREE-YEAR AVERAGES, CORN PERFORMANCE, GLADE SPRING, VIRGINIA.

TWO-YEAR AVERAGES, 1970-71.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP						
<u>FUNK G4550</u>	2X 17330	116.1	105	21.0	91	42
<u>TE BONLSMAKER S</u>	2X 17140	98.3	89	20.0	89	40
<u>TE MARKETMAKER</u>	2X 17710	102.2	92	19.6	87	41
<u>TROJAN M114</u>	3X 16580	113.3	102	20.2	89	48
GROUP AVERAGES	17290	107.5	97	20.2	89	43
TESTED IN MID-SEASON MATURITY GROUP						
<u>HOFMEYER SX50</u>	2X 16310	116.6	105	21.7	84	42
<u>MUNCY CHIEF 777</u>	15570	108.1	98	21.2	91	42
<u>PICNEER BRAND 3369A</u>	2X 16560	120.8	109	22.6	98	49
<u>S STATES 720</u>	SP 17000	100.8	91	20.5	79	48
<u>TE CASHMAKER</u>	2X 19000	123.6	112	20.6	79	37
<u>TE TIMEMASTER</u>	4X 15440	84.5	76	17.9	91	36
<u>TROJAN TXS112</u>	2X 15470	117.2	106	20.3	91	38
<u>TROJAN TXS122</u>	2X 16960	121.9	110	22.0	90	46
GROUP AVERAGES	16590	111.7	101	20.9	88	42
TESTED IN FULL SEASON MATURITY GROUP						
<u>PICNEER BRAND 3306</u>	2X 15650	126.9	115	21.9	94	48
<u>S STATES 909E</u>	4X 14960	97.6	88	23.3	87	57
GROUP AVERAGES	15300	112.3	102	22.6	91	53
EXPERIMENT AVERAGES	16610	110.6	100	20.9	88	44
THREE-YEAR AVERAGES, 1969-70-71						
	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP						
<u>TE BONLSMAKER S</u>	2X 18910	111.0	88	23.1	89	39
<u>TROJAN M114</u>	3X 18850	127.2	101	19.6	86	48
GROUP AVERAGES	18880	119.1	95	21.4	88	43
TESTED IN MID-SEASON MATURITY GROUP						
<u>PICNEER BRAND 3369A</u>	2X 18100	136.7	109	22.0	95	50
<u>S STATES 720</u>	SP 17790	114.1	91	20.3	80	46
<u>TE CASHMAKER</u>	2X 19220	129.1	103	20.1	70	39
<u>TROJAN TXS112</u>	2X 17790	130.9	104	20.2	90	40
GROUP AVERAGES	18220	127.7	102	20.7	84	44
TESTED IN FULL SEASON MATURITY GROUP						
<u>PICNEER BRAND 3306</u>	2X 17870	134.1	107	21.3	93	49
<u>S STATES 909E</u>	4X 17260	122.5	97	22.6	88	56
GROUP AVERAGES	17560	128.3	102	22.0	90	52
EXPERIMENT AVERAGES	18220	125.7	100	21.2	86	46