

# VIRGINIA CORN PERFORMANCE TRIALS IN 1975

C. F. Genter, L. W. Brown, H. M. Camper, Jr., M. T. Carter,  
G. D. Jones, L. A. Link, W. B. Wilkinson III, R. R. Wilmouth

Department of Agronomy

Research Division Report 167  
Virginia Polytechnic Institute  
and State University  
Blacksburg, Virginia 24061  
December 1975

Silage data -- Total plant weight and ear-to-plant ratios were obtained in two replications of the test at Orange. Tons of silage per acre on a 35% dry matter basis were calculated from total plant dry weight for each hybrid. Data are included in Tables 5 and 6.

Virus trial -- Several companies again submitted seed of hybrids for comparison under virus infection. These were grown in four replications at Wingina in an area containing virus-infected johnsongrass plants. Some very good yields were obtained, but some of the most resistant hybrids are late for Virginia and very high-eared. Data obtained are given in Table 12.

The brand names of the commercial hybrids entered in the 1975 tests and the sources of seed are as follows:

<u>Hybrid or Brand Name</u>	<u>Source of Seed</u>
Asgrow	Asgrow Seed Co., Mechanicsburg, PA 17055
Clark	Clark Seed Co., Inc., Kenton, DE 19955
Coker	Coker Pedigreed Seed Co., Hartsville, SC 29550
DeKalb	DeKalb Agricultural Association, DeKalb, IL 60115
Dennis	Dennis Hybrids, Windfall, IN 46076
Ellis	T. B. Ellis, Box 83, Carrollton, VA 23314
Funk G	A. H. Hoffman Seed, Inc., Landisville, PA 17538
Golden Harvest	Columbiana Seed Co., Eldred, IL 62027
Hofmeyer	A. N. Hofmeyer, RFD 1, Box 183, Williamsburg, VA 23185
Kenworthy	Kenworthy Seed Co., Greenfield, OH 45123
Longest	George M. Longest, St. Stephens Church, VA 23148
McNair	McNair Seed Co., Box 706, Laurinburg, NC 28352
Midstates	N. J. Crop Imp. Coop. Assn., Inc., Allentown, NJ 08501
Muncy Chief	Muncy Chief Hybrids, Muncy, PA 17756
Northrup-King	Northrup-King and Co., 1500 Jackson St., N.E., Minneapolis, MN 55413
PAG	PAG Seeds, Box 2187, Loop Sta., Minneapolis, MN 55402
Penney	M. G. Penney, Rt. 1, Box 53C, Bowling Green, VA 22427
Pioneer Brand	Pioneer Corn Co., Inc., 221 N. Main Street, Tipton, IN 46072
Southern States	Southern States Cooperative, 2600 Durham St., Richmond, VA 23220
Taylor-Evans	Taylor-Evans Seed Co., Box 480, Tulia, TX 79088
Thompson	G. C. Thompson & Son, Rt. 1, Eagle Rock, VA 24085
Todd	Todd Hybrid Sales, Box 66, Abbottstown, IA 17301
Trojan	Trojan Seed Co., Box 367, Windfall, IN 46076
Voris	Voris Seeds, Inc., Box 457, Windfall, IN 46076
Watson	Watson Seed Farm, Rocky Mount, NC 27801
Wheeler	J. H. Wheeler, Ewing, VA 24248
Wood	Wood Bros., Wingina, VA 24599

## VIRGINIA CORN PERFORMANCE TRIALS IN 1975

C. F. Genter, L. W. Brown, H. M. Camper, Jr., M. T. Carter, G. D. Jones,  
L. A. Link, W. B. Wilkinson III, and R. R. Wilmouth

Commercial dent corn hybrids were planted in replicated tests at seven locations in Virginia in 1975. Unfavorable weather following planting at Blacksburg caused poor stands and the test was abandoned. Hybrids in these trials are primarily those submitted by the companies that produced them, but a few experimental hybrids and hybrids of particular interest to professional workers in Virginia were also entered.

Seed was packaged at Blacksburg. Plots were seeded 10% above the stand desired by the developing company for each hybrid, and were not thinned. Cooperators, plot sizes, fertilizer applications, cultural practices followed and growing conditions are given as footnotes to the tables.

A restricted randomized block design was used in an attempt to minimize plot competition effects. Hybrids were grouped by maturity based on company evaluation or on the basis of previous tests in Virginia, maturity groups were randomized, and hybrids within each maturity group were randomized in such a way that hybrids with equal or nearly equal seed numbers were planted in adjacent plots. Appropriate border rows were planted adjacent to each maturity group.

Plants were planted and harvested by hand. Erect plants were recorded just prior to harvest. Ear height was measured to the top ear-bearing node. All yields are reported at 15.5% moisture. The early maturity hybrids were harvested at an earlier date at Warsaw so that an overall comparison of standability and moisture is inappropriate at that location.

The experiment station at Charlotte Court House in the southern Piedmont was closed during the past year and the corn test was planted at the new Southern Piedmont Research and Continuing Education Center at Blackstone. Two- and three-year averages combine data from Charlotte Court House in previous years with that obtained at Blackstone in 1975.

Growing conditions -- Above average growing conditions prevailed except at Holland and Blackstone, where a very dry June and late August reduced grain yields, particularly among early hybrids. Favorable harvest weather prevailed. Quality and standability were generally good.

Underlined data -- Hybrids that were above the test average in yield and at least as good as the average for their maturity group in standability were underlined at each location.

Relative yield -- "Relative Yield" is a percentage of the average yield for the test. A hybrid with a relative yield of 105 is 105% of the test mean, or 5% more productive than average in that particular test. Similarly, a hybrid with a relative yield of 95 is 5% lower in yield than the average for that particular test.

TABLE 1. CORN PERFORMANCE, HOLLAND, 1975

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK						
TESTED IN EARLY MATURITY GROUP												
DEKALB XL54	2X	23310	97.6	102	21.9	79	76					
DEKALB XL64A	2X	22250	71.8	75	22.8	71	77					
DENNIS 37	2X	21490	118.8	124	21.1	92	76					
FUNKS G4321A	2X	18770	87.0	91	17.6	62	75					
FUNKS G4408	2X	18310	91.3	96	17.0	68	74					
FUNKS G4449	2X	16800	88.4	93	19.2	79	75					
GOLDEN HARVEST H2500	2X	17100	85.1	89	21.0	86	78					
GOLDEN HARVEST H2580	3X	18460	91.6	96	21.1	85	77					
GOLDEN HARVEST H2655	M2X	17710	88.6	93	22.5	85	76					
HOFMEYER 3X54	3X	20730	72.3	76	18.9	80	76					
MCNAIR X170	2X	21190	95.4	100	22.7	84	76					
NORTHRUP KING PX77	2X	19070	96.9	101	22.2	97	75					
PIONEER 3535	5X	19070	76.7	80	21.6	71	75					
PIONEER 3571	5X	21190	97.9	103	21.2	87	76					
PIONEER 3780	5X	19370	61.5	64	17.8	70	75					
SOUTHERN STATES 450	2X	18770	80.8	85	19.2	82	74					
SOUTHERN STATES 598	2X	20430	64.6	68	18.4	75	77					
TAYLOR EVANS MARKETMAKER	2X	19980	63.7	67	18.3	70	77					
TROJAN TXS111	2X	19370	79.9	84	18.3	90	78					
GROUP AVERAGES		19650	84.7	89	20.1	80	76					
L.S.D. (.05)			27.1									
TESTED IN MID-SEASON MATURITY GROUP												
ASGROW RX94	3X	20130	87.9	92	21.7	59	80					
CLARK 260	2X	23760	107.7	113	23.9	65	81					
CLARK 770	2X	23310	115.3	121	23.3	82	80					
COKER 16	M2X	19670	87.7	92	22.3	92	77					
COKER 4018	3X	19220	107.5	113	22.8	91	80					
COKER 4022	3X	17860	89.5	94	23.7	86	79					
COKER 4034	2X	18010	110.2	115	23.2	69	78					
COKER 5038	2X	19370	119.7	125	25.3	64	79					
DEKALB XL72B	2X	22700	92.9	97	23.6	83	78					
DEKALB XL75	2X	20730	94.4	99	21.1	88	79					
DEKALB XL78	2X	22250	105.1	110	24.8	88	76					
DFKALB XL80A	2X	21190	110.5	116	26.1	78	81					
ELLIS SX1	M2X	19520	112.0	117	23.1	92	76					
FUNKS G4611	2X	18770	104.2	109	22.1	85	78					
FUNKS G4646	2X	20730	85.3	89	22.4	85	78					
GOLDEN HARVEST H2666	2X	19220	99.3	104	22.3	87	77					
GOLDEN HARVEST H2750	3X	14980	85.1	89	24.3	81	81					
GOLDEN HARVEST H2775	M2X	18310	100.2	105	25.0	93	81					
HOFMEYER SX69A	2X	17250	80.7	85	23.8	77	80					
HOFMEYER SX71	2X	18160	95.1	100	21.4	83	77					
KENWORTHY X69A	2X	17400	98.1	103	23.1	83	77					
LONGEST SX1	2X	19070	106.1	111	23.2	87	77					
LONGEST SX2	2X	18010	93.8	98	22.2	84	77					
LONGEST SX3	2X	19370	84.7	89	22.0	84	78					
LONGEST EXP4		19670	104.2	109	23.2	79	76					
MCNAIR X194	2X	20430	94.1	99	23.2	61	78					
MCNAIR X210	2X	18460	84.9	89	24.2	90	80					
MCNAIR X233	2X	18310	104.0	109	25.3	70	83					
MCNAIR X300	2X	16190	88.9	93	25.5	89	80					
MCNAIR S338	3X	17250	98.4	103	24.4	83	81					
MUNCY CHIEF SX777	2X	14230	84.8	89	22.8	87	76					
MUNCY CHIEF SX878	2X	16650	82.0	86	23.9	85	78					
NORTHRUP KING PX74	2X	18460	88.8	93	20.6	90	78					
NORTHRUP KING PX76	2X	19520	92.9	97	22.2	82	76					
NORTHRUP KING PX79	2X	19520	94.2	99	22.3	85	81					
NORTHRUP KING PX675	3X	19520	84.5	89	21.4	86	78					
NORTHRUP KING PX677	3X	18920	88.0	92	23.0	86	77					
PIONEER 3161	M3X	18310	105.3	110	23.4	91	80					
PIONEER 3193	M2X	18160	98.2	103	24.4	90	77					
PIONEER 3368A	M2X	19520	109.0	114	24.3	88	79					
PIONEER 3369A	2X	17710	86.7	91	21.8	88	78					
SOUTHERN STATES 750	SP	21490	104.1	109	21.7	73	77					
SOUTHERN STATES 775	2X	20730	102.5	107	23.7	90	77					
SOUTHERN STATES 840	4X	17860	113.8	119	23.7	88	77					
SOUTHERN STATES 875	4X	17250	87.6	92	22.2	85	76					
TAYLOR EVANS 6968	2X	21640	106.6	112	22.7	86	76					
TAYLOR EVANS 6980	2X	20130	93.0	97	22.5	86	77					
TAYLOR EVANS 6992	2X	20430	113.3	119	22.7	70	77					
TAYLOR EVANS MINTMAKER	2X	18310	95.9	100	23.7	78	78					
TODD M88	2X	14680	97.6	102	23.1	79	76					
TODD M90A	2X	17710	91.6	96	23.0	95	76					
TODD M98	2X	18010	83.8	88	24.9	87	78					
TROJAN TXS113	2X	21190	108.0	113	22.7	90	76					
TROJAN TXS114	2X	19520	110.2	115	22.0	75	79					
TROJAN TXS115A	2X	19220	113.0	118	22.6	83	77					
WATSON 415	2X	17400	86.7	91	24.4	82	80					
WATSON 416H	2X	15740	98.4	103	24.6	88	79					
WATSON 417	2X	17400	97.1	102	25.8	92	80					
WATSON 421	SP	16500	115.8	121	27.0	94	80					
WATSON 431	SP	14530	88.6	93	26.3	88	81					
WATSON 453	SP	17400	103.5	108	26.2	79	82					
WATSON 4376	SP	16650	104.4	109	26.1	95	80					
WATSON 4377	SP	18310	123.2	129	26.2	95	80					
VA35 X PA91	2X	19370	112.0	117	21.8	83	77					
GROUP AVERAGES		18770	98.6	103	23.5	83	78					
L.S.D. (.05)			23.0									
EXPERIMENT AVERAGES		18970	95.4	100	22.7	83	78					
L.S.D. (.05)			23.4									

\*RELATIVE YIELD = (HYBRID YIELD/AVERAGE OF TEST) X 100.

COOPERATOR: L. W. BROWN, TIDEWATER RESEARCH STATION, HOLLAND, VIRGINIA.

DATE PLANTED: APRIL 22. DATE HARVESTED (ALL MATURITIES): SEPT. 16.

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

FERTILIZER APPLIED: 0-40-80 BROADCAST; 150-0-0 APPLIED AS LIQUID N WITH 3 # SUTAN + 1 # ATRAZINE FOR WEED CONTROL.

GROWING CONDITIONS: VERY DRY IN JUNE AND LATE AUGUST. EARLY HYBRIDS WERE HURT BY THE DROUGHT.

TABLE 2. CORN PERFORMANCE, HOLLAND, TWO- AND THREE-YEAR AVERAGES

<u>TWO-YEAR AVERAGES</u>	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
DEKALB XL54	2X	24820	95.5	90	22.4	84	75 18
GOLDEN HARVEST H2500	2X	19900	105.1	99	22.3	92	76 20
GOLDEN HARVEST H2655	M2X	20350	104.2	98	22.8	88	75 21
MCNAIR X170	2X	22250	107.4	101	22.9	87	75 19
<u>NORTHROP KING PX77</u>	2X	21110	107.2	101	22.3	92	74 19
<u>PIONEER 3535</u>	5X	21110	98.4	93	21.4	87	73 19
PIONEER 3571	5X	21940	100.9	95	21.1	90	75 18
PIONEER 3780	5X	22020	80.1	76	18.7	84	72 16
TAYLOR EVANS MARKETMAKER	2X	21640	79.9	75	19.8	83	74 16
TROJAN TXS111	2X	20130	95.1	90	19.7	91	76 20
GROUP AVERAGES		21530	97.4	92	21.3	88	74 18
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW RX94	3X	21640	102.8	97	22.1	76	78 21
COKER 16	M2X	20960	102.9	97	22.3	94	74 20
DEKALB XL72B	2X	23160	110.3	104	23.6	87	75 20
DEKALB XL78	2X	23080	119.9	113	24.1	86	73 22
FUNKS G4646	2X	21640	100.7	95	22.9	90	75 19
<u>GOLDEN HARVEST H2666</u>	2X	19220	120.3	113	22.8	90	75 21
<u>GOLDEN HARVEST H2750</u>	3X	16720	88.5	84	24.2	85	81 21
<u>GOLDEN HARVEST H2775</u>	M2X	19300	111.0	105	26.1	91	80 21
<u>HOFMEYER SX69A</u>	2X	17930	93.1	88	23.5	86	77 20
<u>HOFMEYER SX71</u>	2X	18240	112.5	106	22.3	90	76 22
<u>LONGEST SX1</u>	2X	20200	107.4	101	23.1	88	76 21
<u>LONGEST SX2</u>	2X	19440	116.4	110	22.6	87	75 22
<u>LONGEST SX3</u>	2X	19830	98.7	93	22.6	88	76 21
MCNAIR X194	2X	21110	116.7	110	22.7	78	75 23
MCNAIR X210	2X	19370	100.0	94	24.1	87	77 20
<u>MCNAIR X300</u>	2X	18690	105.6	100	25.9	91	79 22
MUNCY CHIEF SX777	2X	18310	96.9	91	22.7	84	75 20
MUNCY CHIEF SX878	2X	18760	96.3	91	24.3	82	76 21
<u>NORTHROP KING PX74</u>	2X	20660	103.8	98	21.3	93	75 22
<u>NORTHROP KING PX76</u>	2X	21110	107.1	101	22.8	86	74 20
<u>NORTHROP KING PX79</u>	2X	20960	109.3	103	22.5	88	78 21
<u>NORTHROP KING PX675</u>	3X	21260	104.1	98	22.8	88	76 24
<u>NORTHROP KING PX677</u>	3X	21410	105.4	99	22.8	89	74 21
<u>PIONEER 3161</u>	M3X	20050	116.7	110	23.5	91	78 22
<u>PIONEER 3369A</u>	2X	19820	108.8	103	22.5	86	76 21
<u>SOUTHERN STATES 750</u>	SP	23000	104.6	99	21.9	81	74 19
<u>SOUTHERN STATES 775</u>	2X	22020	111.8	105	23.3	92	73 21
<u>SOUTHERN STATES 840</u>	4X	18840	111.0	105	23.7	85	77 20
<u>SOUTHERN STATES 875</u>	4X	19600	100.8	95	22.1	87	74 19
<u>TAYLOR EVANS 6968</u>	2X	22930	116.4	110	22.9	88	73 20
<u>TAYLOR EVANS 6980</u>	2X	21490	99.1	94	23.0	83	75 20
<u>TAYLOR EVANS MINTMAKER</u>	2X	20200	102.2	96	23.2	78	76 19
<u>TODD M88</u>	2X	18010	114.3	108	23.5	89	74 20
<u>TODD M98</u>	2X	19600	105.2	99	24.1	89	75 21
<u>TROJAN TXS113</u>	2X	22020	113.7	107	23.0	93	73 19
<u>TROJAN TXS115A</u>	2X	19900	128.9	122	22.2	90	75 22
<u>WATSON 415</u>	2X	19220	99.0	93	23.9	88	77 20
<u>WATSON 416H</u>	2X	17630	109.5	103	24.5	92	77 20
<u>WATSON 417</u>	2X	18840	110.1	104	25.7	90	79 21
<u>WATSON 421</u>	SP	18540	112.6	106	27.0	89	80 23
<u>WATSON 431</u>	SP	17550	104.8	99	26.5	91	80 20
<u>WATSON 453</u>	SP	18990	108.6	102	25.8	87	81 22
<u>WATSON 4376</u>	SP	19070	114.0	108	26.5	92	78 21
<u>VA35 X PA91</u>	2X	20210	127.9	121	22.6	88	75 21
GROUP AVERAGES		20010	107.9	102	23.5	88	76 21
EXPERIMENT AVERAGES		20290	106.0	100	23.1	88	76 20

THREE-YEAR AVERAGES, HOLLAND

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK
TESTED IN EARLY MATURITY GROUP						
<u>NORTHROP KING PX77</u>	2X	20820	117.0	102	21.4	94 74
<u>PIONEER 3571</u>	5X	21920	109.6	96	19.9	92 75
TAYLOR EVANS MARKETMAKER	2X	21170	89.8	78	18.8	84 74
TROJAN TXS111	2X	19780	110.3	96	18.8	90 76
GROUP AVERAGES		20920	106.7	93	19.7	90 75
TESTED IN MID-SEASON MATURITY GROUP						
<u>COKER 16</u>	M2X	21010	123.9	108	21.5	93 75
<u>DEKALB XL78</u>	2X	22920	128.9	112	23.3	89 74
<u>FUNKS G4646</u>	2X	21270	115.2	101	21.7	91 75
<u>HOFMEYER SX69A</u>	2X	17240	102.0	89	22.7	86 77
MCNAIR X210	2X	18970	106.1	93	23.3	87 78
MCNAIR X300	2X	19160	121.4	106	24.9	93 79
<u>MUNCY CHIEF SX777</u>	2X	18520	110.9	97	21.5	85 75
<u>MUNCY CHIEF SX878</u>	2X	17890	104.7	91	23.0	86 76
<u>NORTHROP KING PX74</u>	2X	20760	121.1	106	20.3	93 75
<u>NORTHROP KING PX76</u>	2X	20770	118.3	103	22.0	89 75
<u>NORTHROP KING PX79</u>	2X	20570	113.9	99	21.0	82 77
<u>PIONEER 3369A</u>	2X	19770	115.4	101	22.0	91 77
<u>SOUTHERN STATES 750</u>	SP	23200	112.9	98	20.8	83 75
<u>SOUTHERN STATES 775</u>	2X	21860	121.2	106	22.4	91 74
<u>SOUTHERN STATES 840</u>	4X	18770	118.0	103	22.6	83 77
<u>SOUTHERN STATES 875</u>	4X	19370	103.6	90	21.1	84 75
<u>TAYLOR EVANS MINTMAKER</u>	2X	20070	103.2	90	22.0	81 77
<u>TROJAN TXS113</u>	2X	20940	123.3	108	22.1	94 74
<u>WATSON 415</u>	2X	19210	111.2	97	22.3	89 76
<u>WATSON 416H</u>	2X	17870	113.3	99	23.5	91 78
<u>WATSON 417</u>	2X	18430	116.2	101	24.4	90 79
<u>WATSON 421</u>	SP	18370	125.9	110	25.7	91 81
<u>WATSON 431</u>	SP	17920	113.2	99	25.5	92 81
<u>WATSON 4376</u>	SP	19070	119.9	105	25.4	89 80
<u>VA35 X PA91</u>	2X	19820	134.3	117	21.9	90 76
GROUP AVERAGES		19750	115.9	101	22.7	88 77
EXPERIMENT AVERAGES		19910	114.6	100	22.3	89 76

TABLE 3. CORN PERFORMANCE, WARSAW, 1975

	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																
DEKALB XL54	2X	23460	189.9	110	23.5	92	59	44	1.5							
<u>DEKALB XL64A</u>	2X	24360	192.0	111	22.9	98	60	43	1.5							
<u>DENNIS 37</u>	2X	23460	200.1	116	20.4	91	62	52	1.7							
<u>DENNIS 37E</u>	2X	21040	203.7	118	20.7	97	61	47	1.7							
<u>DENNIS 47</u>	2X	23460	204.6	118	19.5	83	61	49	2.0							
<u>GOLDEN HARVEST H2500</u>	2X	18610	174.4	101	21.5	98	63	49	1.8							
<u>GOLDEN HARVEST H2595</u>	3X	19070	129.7	75	22.4	94	63	45	2.5							
<u>GOLDEN HARVEST H2655</u>	M2X	19370	174.9	101	22.9	98	61	44	2.2							
<u>HOFMEYER 3X54</u>	3X	20730	161.8	94	20.0	97	62	45	2.8							
<u>MCNAIR X170</u>	2X	20580	199.5	115	22.8	94	62	48	2.0							
<u>NORTHROP KING PX77</u>	2X	17400	159.3	92	22.6	98	61	42	1.8							
<u>NORTHROP KING PX606</u>	3X	17860	164.6	95	19.7	97	62	47	2.0							
<u>NORTHROP KING PX616</u>	3X	16340	149.3	86	20.5	99	62	43	2.2							
<u>PIONEER 3517</u>	M2X	20730	177.3	103	22.0	97	62	38	1.7							
<u>PIONEER 3535</u>	5X	21340	191.6	111	21.9	99	59	51	1.2							
<u>PIONEER 3571</u>	M2X	20730	171.2	99	19.5	98	61	44	2.0							
<u>SOUTHERN STATES 598</u>	2X	22700	169.9	98	18.5	93	59	43	2.0							
<u>SOUTHERN STATES 698</u>	SP	18770	166.5	96	23.7	98	60	42	1.7							
<u>TAYLOR EVANS MARKETMAKER</u>	2X	19520	150.3	87	18.7	95	60	43	2.0							
<u>TROJAN TXS111</u>	2X	21190	178.9	103	18.5	95	62	48	1.8							
<u>VORIS V2532</u>	2X	19980	198.9	115	19.9	96	61	47	1.7							
GROUP AVERAGES		20510	176.6	102	21.0	95	61	45	1.9							
L.S.D. (.05)			14.4													
TESTED IN MID-SEASON MATURITY GROUP																
ASGROW RX94	3X	20880	189.8	110	22.4	93	65	48	1.5							
<u>ASGROW RX100</u>	2X	21190	185.1	107	22.2	94	64	47	2.7							
<u>CLARK 260</u>	2X	19980	189.6	110	23.5	94	63	43	2.0							
<u>CLARK 770</u>	2X	19070	189.5	110	22.6	94	63	43	2.0							
<u>COKER 16</u>	M2X	21790	196.8	114	22.2	94	62	48	1.5							
<u>COKER 4018</u>	3X	19820	166.3	96	21.6	95	66	50	2.7							
<u>COKER 4022</u>	3X	19670	185.8	107	24.4	91	64	52	1.5							
<u>COKER 4034</u>	2X	19520	200.0	116	23.1	91	64	50	1.5							
<u>COKER 5038</u>	2X	19220	184.9	107	25.8	84	66	53	1.5							
<u>DEKALB XL72B</u>	2X	21490	175.7	102	21.9	97	64	44	2.0							
<u>DEKALB XL75</u>	2X	22250	181.8	105	22.7	97	64	51	2.0							
<u>DEKALB XL78</u>	2X	24360	198.9	115	22.7	95	62	48	1.2							
<u>DENNIS 69</u>	2X	22400	195.8	113	21.2	93	63	48	2.2							
<u>DENNIS 75</u>	M2X	20880	189.9	110	25.5	97	65	51	2.3							
<u>FUNKS G4611</u>	2X	20280	178.2	103	22.3	94	64	45	1.2							
<u>FUNKS G4646</u>	2X	18920	156.0	90	23.9	96	62	44	2.3							
<u>FUNKS G5666</u>	4X	19980	160.7	93	22.3	92	64	44	1.8							
<u>FUNKS G5757</u>	4X	18160	159.2	92	24.9	97	65	48	3.0							
<u>GOLDEN HARVEST H2666</u>	2X	18920	171.7	99	23.3	96	64	44	1.7							
<u>GOLDEN HARVEST H2775</u>	M2X	19670	187.0	108	24.5	96	67	47	2.3							
<u>GOLDEN HARVEST XC4777</u>	3X	17250	152.9	88	22.4	96	65	45	3.0							
<u>HOFMEYER SX69A</u>	2X	16800	144.8	84	24.4	95	66	46	2.3							
<u>HOFMEYER SX71</u>	2X	19220	172.1	100	22.1	94	64	46	1.8							
<u>HOFMEYER SX72</u>	M2X	20130	172.8	100	23.2	93	63	48	2.2							
<u>HOFMEYER EXP 2</u>	2X	19520	164.3	95	22.7	88	65	47	3.0							
<u>KENWORTHY X69A</u>	2X	19520	185.4	107	21.8	97	62	45	2.2							
<u>KENWORTHY KL88XA</u>	2X	18010	156.0	90	20.0	90	63	45	2.8							
<u>LONGEST SX1</u>	2X	19220	171.0	99	22.8	94	63	46	2.3							
<u>LONGEST SX2</u>	2X	18920	157.7	91	21.8	94	62	48	2.0							
<u>LONGEST SX3</u>	2X	19670	157.2	91	22.8	97	63	49	1.5							
<u>LONGEST EXP 4</u>		19070	180.1	104	22.3	92	63	48	2.3							
<u>MCNAIR X194</u>	2X	20280	173.7	100	20.2	96	64	44	2.0							
<u>MCNAIR X210</u>	2X	18610	171.9	99	22.5	84	65	47	2.0							
<u>MCNAIR X233</u>	2X	18460	190.6	110	24.9	93	68	58	1.5							
<u>MCNAIR X300</u>	2X	18770	199.7	115	24.3	97	67	48	1.7							
<u>MCNAIR S338</u>	3X	18610	184.0	106	24.8	91	69	51	2.5							
<u>MIDSTATES MS747</u>	M2X	18920	163.2	94	22.3	98	62	50	1.5							
<u>MIDSTATES MS869</u>	M2X	19070	172.1	99	22.5	93	63	45	1.7							
<u>MIDSTATES MS900</u>	M2X	19370	175.1	101	22.7	98	63	46	1.8							
<u>MUNCY CHIEF SX662</u>	2X	21940	156.2	90	21.9	96	61	42	2.0							
<u>MUNCY CHIEF SX777</u>	2X	18460	151.6	88	21.8	97	64	43	1.5							
<u>MUNCY CHIEF SX868</u>	2X	15440	125.6	73	22.5	90	66	45	2.2							
<u>MUNCY CHIEF SX878</u>	2X	17710	151.8	88	23.0	92	64	47	2.0							
<u>MUNCY CHIEF 3X898</u>	3X	18920	165.0	95	22.4	97	64	43	2.3							
<u>NORTHROP KING PX74</u>	2X	17400	169.2	98	19.6	96	61	49	1.7							
<u>NORTHROP KING PX76</u>	2X	18010	187.5	108	21.6	96	62	45	2.0							
<u>NORTHROP KING PX79</u>	2X	18310	170.3	98	19.9	95	63	49	1.5							
<u>NORTHROP KING PX675</u>	3X	18010	170.5	99	20.5	95	62	49	2.5							
<u>NORTHROP KING PX677</u>	3X	17860	155.6	90	22.4	93	63	49	2.2							
<u>PENNY 1</u>	2X	19520	188.0	109	22.0	89	63	49	3.5							
<u>PENNY 2</u>	M2X	18010	169.9	98	23.1	94	62	46	1.8							
<u>PIONEER 3321</u>	M2X	18160	177.3	103	23.6	94	66	42	1.7							
<u>PIONEER 3330</u>	2X	19370	172.9	100	22.0	93	62	43	2.2							
<u>PIONEER 3369A</u>	2X	18610	192.0	111	22.7	94	62	46	1.7							
<u>SOUTHERN STATES 715</u>	3X	18610	145.8	84	19.1	93	63	47	2.7							
<u>SOUTHERN STATES 750</u>	SP	19070	161.2	93	21.2	99	63	43	2.3							
<u>SOUTHERN STATES 775</u>	2X	21340	181.4	105	23.9	95	62	47	2.2							
<u>SOUTHERN STATES 840</u>	4X	19220	193.2	112	22.0	95	64	47	2.5							
<u>SOUTHERN STATES 875</u>	4X	18010	163.6	95	21.0	96	63	43	3.7							
<u>TAYLOR EVANS 6968</u>	2X	21340	200.7	116	22.7	97	62	49	1.7							
<u>TAYLOR EVANS 6980</u>	2X	21640	171.7	99	22.6	94	64	44	1.8							
<u>TAYLOR EVANS 6992</u>	2X	19370	175.2	101	19.6	95	63	48	1.5							
<u>TAYLOR EVANS BINMASTER</u>	4X	18310	164.5	95	23.2	94	65	49	2.3							
<u>TAYLOR EVANS MASTERMAKER</u>	2X	19														

TABLE 4. CORN PERFORMANCE, WARSAW, TWO- AND THREE-YEAR AVERAGES

TWO-YEAR AVERAGES	PLANTS /ACRE	YIELD BU/A	RELATIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUALITY
TESTED IN EARLY MATURITY GROUP								
DEKALB XL54	2X 24360	171.3	102	23.3	94	65	40	1.6
DENNIS 37	2X 23680	189.0	112	20.6	94	68	48	1.7
DENNIS 47	2X 23760	183.6	109	20.7	85	68	46	2.1
GOLDEN HARVEST H2655	M2X 20430	171.4	102	22.6	96	66	43	2.1
MCNAIR X170	2X 21420	183.5	109	23.2	92	67	44	1.8
NORTHROP KING PX77	2X 20200	160.6	96	22.6	92	67	41	1.9
NORTHROP KING PX616	3X 17630	148.1	88	20.7	100	67	42	2.5
PIONEER 3517	M2X 22550	162.0	96	22.3	98	67	37	2.2
PIONEER 3535	5X 23230	176.5	105	21.7	99	65	46	1.7
PIONEER 3571	M2X 21490	167.5	100	20.2	96	66	43	2.1
SOUTHERN STATES 598	2X 24140	148.6	88	19.7	93	65	39	2.1
SOUTHERN STATES 698	SP 19600	155.7	93	22.2	98	66	40	1.9
TAYLOR EVANS MARKETMAKER	2X 21040	146.4	87	19.8	95	65	40	1.8
GROUP AVERAGES	21810	166.5	99	21.5	95	66	42	2.0
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW RX94	3X 21640	181.6	108	21.3	95	71	46	1.8
ASGROW RX100	2X 21790	186.4	111	21.5	96	69	45	2.1
COKER 16	M2X 22550	178.9	106	21.7	93	67	45	1.6
DEKALB XL72B	2X 23300	181.6	108	22.0	93	69	44	1.9
DEKALB XL78	2X 24520	193.6	115	21.9	92	68	46	1.4
DENNIS 69	2X 23610	189.5	113	20.7	94	67	47	2.1
DENNIS 75	M2X 22470	185.4	110	24.0	98	70	46	2.2
FUNKS G4646	2X 21940	159.8	95	24.1	87	67	42	2.3
GOLDEN HARVEST H2775	M2X 20360	174.5	104	24.1	92	72	44	2.2
HOFMEYER SX69A	2X 18230	156.5	93	22.5	96	70	43	2.3
HOFMEYER SX71	2X 18460	162.9	97	22.9	86	69	42	1.8
LONGEST SX1	2X 19750	164.8	98	21.4	88	68	45	2.3
LONGEST SX2	2X 19370	161.0	96	22.2	90	68	44	1.8
LONGEST SX3	2X 19830	149.8	89	21.8	96	69	45	1.8
MCNAIR X194	2X 21940	177.6	106	19.6	97	68	45	1.8
MCNAIR X210	2X 18540	166.7	99	22.0	87	70	45	2.0
MCNAIR X300	2X 18310	182.6	109	23.8	94	72	45	1.7
MIDSTATES MS869	M2X 20430	169.3	101	21.4	90	68	44	1.7
MIDSTATES MS900	M2X 20280	170.9	102	22.7	97	68	43	1.8
MUNCY CHIEF SX662	2X 21640	155.6	92	23.0	94	66	41	2.0
MUNCY CHIEF SX777	2X 20580	154.5	92	20.8	90	69	40	1.8
MUNCY CHIEF SX868	2X 17930	137.6	82	21.3	94	70	43	2.2
MUNCY CHIEF SX878	2X 18760	155.5	92	22.7	91	69	45	2.1
MUNCY CHIEF 3X898	3X 20960	171.4	102	21.4	94	69	44	2.1
NORTHROP KING PX74	2X 19370	160.4	95	18.2	96	67	45	2.1
NORTHROP KING PX76	2X 19220	177.4	105	21.0	92	66	44	2.0
NORTHROP KING PX79	2X 18770	163.8	97	18.9	97	69	47	2.0
NORTHROP KING PX675	3X 19670	173.2	103	18.7	96	67	47	2.1
NORTHROP KING PX677	3X 19970	153.5	91	21.1	94	68	46	2.4
PIONEER 3321	M2X 20740	179.1	106	23.5	97	71	42	1.7
PIONEER 3330	2X 21260	171.7	102	20.7	95	67	42	2.2
PIONEER 3369A	2X 20430	181.5	108	22.0	96	67	44	1.8
SOUTHERN STATES 715	3X 20130	146.8	87	18.3	96	68	45	2.6
SOUTHERN STATES 750	SP 22400	159.7	95	20.8	94	68	42	2.3
SOUTHERN STATES 775	2X 22930	180.3	107	22.7	91	66	45	2.1
SOUTHERN STATES 840	4X 20200	172.7	103	21.2	90	70	45	2.6
SOUTHERN STATES 875	4X 18760	162.0	96	20.2	97	68	42	3.2
TAYLOR EVANS 6968	2X 23000	183.6	109	22.1	94	67	47	2.1
TAYLOR EVANS 6980	2X 22400	172.2	102	20.3	92	68	44	1.9
TAYLOR EVANS BINMASTER	4X 19750	162.5	97	22.7	93	70	45	2.1
TAYLOR EVANS MASTERMAKER	2X 21410	150.4	89	22.3	95	69	44	2.6
TAYLOR EVANS MINTMAKER	2X 21030	161.5	96	21.4	93	69	42	2.2
TODD M69	SP 19680	156.3	93	19.4	96	67	45	2.4
TODD M88	2X 17930	155.6	93	21.6	97	68	41	2.2
TODD M90	2X 19220	163.9	97	22.8	91	69	48	1.8
TODD M98	2X 19750	176.5	105	24.0	98	69	45	2.2

TROJAN TXS113	2X 22700	178.9	106	20.9	95	66	43	1.6
TROJAN TXS115A	2X 20350	174.9	104	19.0	97	67	46	1.8
WATSON 415	2X 19830	159.6	95	22.9	91	70	44	1.8
WATSON 416H	2X 18540	170.4	101	23.1	92	70	45	1.9
WATSON 417	2X 18990	168.1	100	25.2	94	73	43	1.8
WATSON 421	SP 17330	173.8	103	25.3	97	73	44	1.7
WATSON 431	SP 17710	166.8	99	25.2	91	73	43	2.5
WATSON 453	SP 19140	171.6	102	24.8	95	73	46	1.5
WATSON 4376	SP 19900	175.8	105	25.4	94	72	44	1.9
GROUP AVERAGES	20360	168.6	100	21.9	94	69	44	2.0
EXPERIMENT AVERAGES	20640	168.2	100	21.9	94	68	44	2.0
THREE-YEAR AVERAGES, WARSAW								
	PLANTS /ACRE	YIELD BU/A	RELATIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUALITY
TESTED IN EARLY MATURITY GROUP								
NORTHROP KING PX77	2X 18750	149.0	97	22.1	90	69	41	1.7
NORTHROP KING PX616	3X 17080	143.3	93	21.2	98	69	42	2.1
PIONEER 3571	M2X 20920	155.9	101	20.0	96	68	41	2.0
SOUTHERN STATES 598	2X 23280	140.2	91	18.8	91	66	38	2.0
SOUTHERN STATES 698	SP 19570	148.0	96	21.7	98	67	39	1.8
TAYLOR EVANS MARKETMAKER	2X 20470	134.8	88	19.6	94	66	38	1.7
GROUP AVERAGES	20010	145.2	94	20.6	94	67	40	1.9
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW RX100	2X 20840	171.2	111	21.8	96	70	43	2.0
COKER 16	M2X 21540	166.6	108	22.2	93	68	45	1.5
DENNIS 69	2X 21900	172.3	112	21.3	94	69	45	1.9
DENNIS 75	M2X 20850	167.9	109	24.8	98	71	43	2.0
FUNKS G4646	2X 20990	152.2	99	23.1	89	68	41	2.0
HOFMEYER SX69A	2X 17240	147.5	96	23.1	97	72	42	2.0
LONGEST SX1	2X 18590	155.3	101	21.4	87	69	45	1.9
LONGEST SX2	2X 18630	153.4	100	22.1	91	69	43	1.6
LONGEST SX3	2X 18350	144.7	94	21.9	96	70	43	1.6
MCNAIR X210	2X 18220	155.2	101	22.0	89	72	43	1.9
MIDSTATES MS869	M2X 18850	152.2	99	22.2	90	70	42	1.7
MIDSTATES MS900	M2X 18650	150.2	98	22.7	98	70	41	1.9
MUNCY CHIEF SX662	2X 20000	146.6	95	23.8	95	68	40	1.7
MUNCY CHIEF SX777	2X 19640	149.3	97	21.4	92	70	42	1.6
MUNCY CHIEF SX868	2X 17680	136.7	89	21.8	94	71	42	2.0
MUNCY CHIEF SX878	2X 17550	146.2	95	22.6	91	70	42	1.8
MUNCY CHIEF 3X898	3X 19450	158.9	103	21.9	92	71	44	1.8
NORTHROP KING PX74	2X 18140	150.7	98	19.0	97	69	45	2.0
NORTHROP KING PX76	2X 18000	161.2	105	20.9	94	68	45	1.9
NORTHROP KING PX79	2X 17500	147.0	96	19.6	98	70	46	1.9
PIONEER 3369A	2X 19920	169.1	110	22.1	95	69	44	1.6
SOUTHERN STATES 750	SP 22360	149.5	97	21.0	94	70	41	2.1
SOUTHERN STATES 775	2X 22130	164.9	107	22.4	92	68	42	1.8
SOUTHERN STATES 840	4X 19240	159.8	104	22.0	89	71	44	2.4
SOUTHERN STATES 875	4X 18040	147.5	96	20.5	97	69	42	2.8
TAYLOR EVANS BINMASTER	4X 19380	156.1	101	23.0	93	71	44	2.0
TAYLOR EVANS MASTERMAKER	2X 19900	141.4	92	22.5	95	70	40	2.3
TAYLOR EVANS MINTMAKER	2X 19840	147.9	96	22.2	95	70	42	1.8
TODD M90	2X 18340	155.8	101	22.8	93	70	47	1.6
TROJAN TXS113	2X 21390	164.9	107	21.6	94	67	42	1.5
WATSON 415	2X 19080	151.2	98	22.2	92	71	43	1.7
WATSON 416H	2X 17590	155.9	101	23.6	93	72	44	1.7
WATSON 417	2X 18430	157.1	102	25.3	94	74	41	1.7
WATSON 421	SP 17C70	161.0	105	25.3	94	74	44	1.6
WATSON 431	SP 17230	157.5	102	24.9	93	74	44	2.2
WATSON 4376	SP 19330	169.3	110	24.7	93	74	43	1.9
GROUP AVERAGES	19220	155.4	101	22.4	94	70	43	1.9
EXPERIMENT AVERAGES	19330	153.9	100	22.1	94	70	43	1.9

TABLE 5. CORN PERFORMANCE, ORANGE, 1975

PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY	Total Plant		
								Tons/A @35% DM	Pct. ears	
<b>TESTED IN EARLY MATURITY GROUP</b>										
DEKALB XL54	2X 20130	158.1	103	21.3	92	64	52	1.0	23.3	59.8
<u>DEKALB XL64A</u>	2X 22700	158.8	104	21.4	95	63	50	1.0	20.8	62.2
DENNIS 37	2X 21490	194.7	127	20.7	89	66	56	1.0	22.9	66.5
FUNKS G4321A	2X 18920	141.0	92	20.0	97	63	47	1.0	19.4	59.4
FUNKS G4408	2X 18460	153.0	100	18.4	86	65	53	1.0	18.0	68.2
FUNKS G4449	2X 16950	144.3	94	20.3	96	64	48	1.3	17.0	66.4
<u>GOLDEN HARVEST H2500</u>	2X 18610	161.6	105	21.1	94	67	54	1.0	21.2	60.4
<u>GOLDEN HARVEST H2510</u>	2X 19980	146.8	96	19.5	96	62	52	1.7	18.5	61.4
<u>GOLDEN HARVEST H2655</u>	M2X 15280	136.3	89	23.3	96	64	50	2.0	18.8	59.8
HOFMEYER SX50	2X 19220	149.0	97	23.1	98	65	50	1.0	19.1	67.4
HOFMEYER 3X54	3X 19670	137.1	89	21.0	95	65	51	1.7	18.1	62.2
<u>MCAIR XL70</u>	2X 20730	193.1	126	22.1	97	66	52	1.7	26.0	62.0
<u>NORTHROP-KING PX77</u>	2X 18310	153.6	100	21.7	98	66	48	1.0	24.1	52.5
<u>PAG SX494</u>	2X 18160	157.2	103	22.9	98	65	53	2.3	21.4	62.9
PAG EXP 135119	2X 14230	119.4	78	22.7	95	66	55	1.7	17.5	59.5
<u>PIONEER BRAND 3535</u>	5X 20430	165.1	108	21.4	97	65	54	1.0	22.8	57.2
<u>PIONEER BRAND 3571</u>	M2X 21640	161.8	106	20.8	97	63	50	1.3	22.2	63.3
<u>PIONEER BRAND 3780</u>	5X 19820	133.9	87	18.6	95	62	48	1.7	15.1	66.3
SOUTHERN STATES 598	2X 22250	154.8	101	19.7	93	63	45	1.0	18.0	66.9
TAYLOR-EVANS MARKETMAKER	2X 19220	124.1	81	19.5	91	63	48	1.0	13.7	66.7
TROJAN TXS111	2X 19520	155.0	101	19.6	90	67	57	1.3	20.1	62.9
GROUP AVERAGES L.S.D.(.05)	19320	152.3 23.6	99	20.9	94	64	51	1.3	19.9	62.6
<b>TESTED IN MID-SEASON MATURITY GROUP</b>										
ASGROW RX100	2X 18770	147.9	97	23.3	79	69	56	1.0	19.1	69.3
<u>COKER 16</u>	M2X 20130	182.4	119	23.3	95	66	54	1.0	24.9	62.4
<u>DEKALB XL72B</u>	2X 19220	157.2	103	22.8	91	68	53	1.0	20.1	65.1
DEKALB XL75	2X 20580	162.7	106	21.8	80	69	55	1.7	21.1	67.5
<u>DEKALB XL78</u>	2X 21340	189.9	124	23.4	88	67	56	1.0	24.3	66.1
DEKALB XL80A	2X 20430	165.2	108	26.2	74	72	55	2.7	23.6	61.3
FUNKS G4611	2X 18610	151.4	99	21.5	91	68	55	1.0	22.7	58.4
FUNKS G4646	2X 17550	139.6	91	22.8	93	67	53	1.0	19.7	58.5
FUNKS G4757	3X 19370	150.6	98	23.2	88	72	54	1.3	21.5	70.5
FUNKS G5666	4X 16040	144.3	94	23.2	95	68	53	1.0	19.2	70.8
FUNKS G5757	4X 18010	138.5	90	25.3	80	71	56	2.0	19.1	65.1
<u>GOLDEN HARVEST H2666</u>	2X 19520	161.7	106	22.1	97	69	53	1.0	20.6	66.4
<u>GOLDEN HARVEST H2750</u>	3X 16190	138.4	90	24.0	73	73	52	1.0	19.1	64.4
<u>GOLDEN HARVEST H2775</u>	M2X 19070	177.9	116	23.9	93	72	55	1.0	23.8	62.0
HOFMEYER SX66R	2X 18010	140.7	92	21.9	61	72	57	1.0	19.3	62.5
HOFMEYER SX69A	2X 14380	118.6	77	23.2	97	71	55	1.3	15.8	66.0
HOFMEYER SX71	2X 16650	159.1	104	23.1	87	70	53	1.3	20.0	68.6
<u>HOFMEYER BINBUSTER 3</u>	4X 16800	151.7	99	22.9	83	69	52	1.3	18.8	68.6
<u>KENWORTHY X69A</u>	2X 15890	149.1	97	21.8	93	66	53	1.0	19.2	64.6
<u>LONGEST SX1</u>	2X 16500	133.0	87	22.0	98	66	56	1.7	19.1	57.3
<u>LONGEST SX2</u>	2X 18310	158.9	104	21.6	97	65	56	1.0	20.1	64.0
<u>LONGEST SX3</u>	2X 18770	153.6	100	22.1	86	67	60	1.0	18.2	65.5
MCAIR X194	2X 18770	154.3	101	21.5	83	68	58	1.0	18.1	71.5
MCAIR X210	2X 17550	152.2	99	22.5	93	70	55	1.0	21.3	62.5
MCAIR X233	2X 18610	165.2	108	23.3	80	75	63	1.0	23.0	66.2
MCAIR X300	2X 16950	151.2	99	25.3	91	73	54	1.0	21.4	64.1
MCAIR S338	3X 17860	141.8	93	24.3	76	74	55	1.0	20.7	62.0

MIDSTATES MS747	M2X 18460	155.9	102	22.1	79	67	53	1.0	19.8	67.1
MIDSTATES MS869	M2X 18460	154.9	101	22.0	90	68	54	1.0	18.7	69.2
<u>MIDSTATES MS900</u>	M2X 19370	169.2	110	22.4	88	68	53	1.3	19.6	70.1
MUNCY CHIEF SX662	2X 20130	143.6	94	22.0	96	64	50	1.0	18.3	62.0
MUNCY CHIEF H764	4X 19070	144.8	94	21.9	75	69	54	1.3	19.2	63.0
MUNCY CHIEF SX777	2X 16800	145.0	95	21.5	91	68	55	1.0	18.7	69.9
MUNCY CHIEF SX868	2X 17250	120.1	78	22.5	93	73	55	1.0	16.8	61.0
MUNCY CHIEF SX878	2X 14830	133.9	87	23.0	86	69	52	1.0	21.4	58.6
MUNCY CHIEF 3X898	3X 18460	147.1	96	22.4	89	69	53	1.0	21.7	58.0
<u>NORTHROP-KING PX74</u>	2X 15280	138.0	90	22.1	98	67	56	1.0	19.6	65.8
<u>NORTHROP-KING PX76</u>	2X 20130	170.0	111	22.6	98	66	53	1.0	21.9	64.7
<u>NORTHROP-KING PX79</u>	2X 18310	172.9	113	20.3	86	69	55	1.3	20.5	70.6
<u>NORTHROP-KING PX675</u>	3X 19220	163.6	107	21.1	97	69	55	1.0	21.7	55.7
<u>NORTHROP-KING PX677</u>	3X 17400	133.7	87	23.7	94	67	54	1.3	19.8	58.5
PAG SX17A	2X 18610	169.2	110	23.1	62	73	59	1.7	19.0	68.6
<u>PAG SX98</u>	2X 18920	173.4	113	22.3	96	68	53	1.3	18.7	74.0
PAG SX605	2X 17250	135.1	88	25.4	89	77	60	1.0	23.3	51.0
<u>PAG 7545</u>	3X 19370	180.6	118	22.0	98	68	56	1.7	23.8	61.3
<u>PAG EXP 302001</u>	2X 19370	159.9	104	21.3	93	68	53	1.0	21.4	59.8
<u>PIONEER BRAND 3321</u>	M2X 17860	164.9	108	23.2	94	71	53	1.0	20.4	65.9
<u>PIONEER BRAND 3368</u>	M2X 17710	159.4	104	22.6	97	69	55	1.3	22.8	59.6
<u>PIONEER BRAND 3369A</u>	2X 18610	174.1	114	21.7	96	67	53	1.0	22.0	67.1
<u>SOUTHERN STATES 715</u>	3X 17550	123.7	81	20.8	97	68	58	1.3	17.1	58.8
<u>SOUTHERN STATES 750</u>	SP 22850	167.5	109	21.5	87	68	49	1.0	20.5	66.4
<u>SOUTHERN STATES 775</u>	2X 20430	168.2	110	22.7	93	65	54	1.0	20.9	64.1
<u>SOUTHERN STATES 840</u>	4X 17710	170.5	111	22.2	86	70	55	1.7	22.5	63.2
<u>SOUTHERN STATES 860</u>	4X 16500	126.2	82	22.6	50	72	63	3.0	16.7	66.3
<u>SOUTHERN STATES 875</u>	4X 18010	151.4	99	21.7	93	68	50	3.2	20.1	62.1
<u>SOUTHERN STATES 909E</u>	4X 17100	152.7	100	23.3	62	73	67	2.0	19.4	65.2
<u>TAYLOR-EVANS 6968</u>	2X 21190	173.3	113	22.6	98	66	52	1.3	24.2	58.5
<u>TAYLOR-EVANS 6980</u>	2X 20880	171.8	112	22.7	96	68	52	1.0	21.8	64.4
<u>TAYLOR-EVANS 6992</u>	2X 19670	170.5	111	20.8	79	66	55	1.0	19.5	71.7
<u>TAYLOR-EVANS MINTMAKER</u>	2X 18160	153.6	100	22.0	88	68	53	1.0	19.4	67.4
THOMPSON 219A	4X 17100	146.5	96	22.3	81	68	53	1.7	19.1	62.8
THOMPSON 220B	M2X 16190	118.3	77	21.9	93	69	55	1.7	18.3	60.7
THOMPSON 221	2X 16040	128.4	84	22.4	58	70	57	1.0	14.6	72.2
TODD M88	2X 15130	110.5	72	21.7	88	68	54	1.3	15.8	61.2
TODD M90	2X 16500	142.1	93	22.6	98	68	55	1.0	21.1	58.4
TODD M90A	2X 16800	139.2	91	23.4	91	65	51	1.7	18.0	61.6
TODD M98	2X 18010	168.3	110	23.2	92	68	54	1.0	20.2	68.5
TROJAN TXS113	2X 20430	178.0	116	21.9	96	64	49	1.0	21.9	67.8
TROJAN TXS114	2X 20730	166.6	109	21.2	82	68	55	2.0	20.4	67.9
TROJAN TXS115A	2X 18010	152.4	99	21.6	91	66	58	1.0	19.7	64.0
(VA14 X 02047) X LEB	3X 18310	135.9	89	24.0	58	73	56	3.0	19.8	56.3
VA35 X PA91	2X 19070	181.8	119	23.3	93	69	54	1.0	22.1	69.6
VA26 X VA58	2X 18610	161.3	105	24.1	89	70	54	1.0	21.6	65.4
GROUP AVERAGES L.S.D.(.05)	18240	153.5 23.2	100	22.6	87	69	55	1.3	20.2	64.2
EXPERIMENT AVERAGES L.S.D.(.05)	18480	153.2 23.3	100	22.2	89	68	54	1.3	20.2	63.9

\*RELATIVE YIELD = (HYBRID YIELD/AVERAGE OF TEST) X100.

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

DATE PLANTED: MAY 7, DATE HARVESTED: REP 1, OCTOBER 8; REP 2, OCTOBER 13; REP 3, OCTOBER 14.

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

FERTILIZER APPLIED: 150-50-50 BROADCAST BEFORE PLANTING.

WEED CONTROL: 2 LBS. ATRAZINE AND 1 LB. PRINCIPER PER ACRE APPLIED MAY 6.

GROWING CONDITIONS: EXCELLENT.





TABLE 7. CORN PERFORMANCE, PETERSBURG, 1975

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
<b>TESTED IN EARLY MATURITY GROUP</b>								
DENNIS 37	2X 19820	124.6	114	18.9	98	64	40	0.0
DENNIS 47	2X 20130	120.4	110	20.0	95	62	39	0.0
FUNKS G4408	2X 16650	98.2	89	17.3	94	63	36	0.0
GOLDEN HARVEST H2500	2X 15130	99.8	91	20.4	96	68	37	0.0
GOLDEN HARVEST H2580	3X 13010	98.3	90	19.7	94	65	34	0.0
GOLDEN HARVEST H2655	M2X 17400	102.1	93	24.1	97	61	30	0.0
HOFMEYER 3X54	3X 19220	115.4	105	19.8	98	62	37	0.0
PIONEER BRAND 3517	M2X 20430	105.2	96	21.1	100	63	31	0.0
PIONEER BRAND 3535	5X 18610	128.2	117	19.6	97	63	39	0.0
PIONEER BRAND 3571	M2X 19670	120.8	110	20.5	97	62	35	0.0
PIONEER BRAND 3780	5X 21040	108.5	99	19.5	94	63	30	0.0
SOUTHERN STATES SS698	SP 18010	111.6	102	21.2	98	64	30	0.0
TAYLOR-EVANS MARKETMAKER	2X 21040	99.0	90	18.4	96	63	33	0.0
TROJAN TXS111	2X 17400	118.9	108	19.1	96	65	41	0.0
GROUP AVERAGES L.S.D. (.05)	18400	110.8 21.0	101	20.0	96	63	35	0.0
<b>TESTED IN MID-SEASON MATURITY GROUP</b>								
ASGROW RX100	2X 17550	96.6	88	23.0	98	67	40	0.0
ASGROW RX114	2X 19670	117.8	107	21.2	99	71	41	0.0
COKER 16	M2X 20880	125.0	114	24.8	98	64	40	0.0
DEKALB XL72B	2X 18460	101.7	93	22.7	97	67	37	0.0
DEKALB XL78	2X 21340	114.3	104	23.4	95	65	39	0.0
DEKALB XL80	2X 19220	107.2	98	24.5	98	70	38	0.0
DEKALB XL80A	2X 17860	130.7	119	24.9	96	71	41	0.0
DEKALB XL394	3X 18920	118.6	108	27.8	99	75	55	0.0
DENNIS 69	2X 19220	101.3	92	22.5	98	68	37	0.0
FUNKS G4646	2X 16650	84.1	77	24.2	98	68	37	0.0
FUNKS G5666	4X 18460	95.6	87	22.9	95	68	38	0.0
GOLDEN HARVEST H2666	2X 17860	114.6	104	22.3	98	67	39	0.0
GOLDEN HARVEST H2775	M2X 18310	119.4	109	23.5	97	71	38	0.0
GOLDEN HARVEST XC4777	3X 18610	107.9	98	22.9	97	69	42	0.0
HOFMEYER SX69A	2X 16040	88.9	81	23.2	100	69	40	0.0
HOFMEYER SX71	2X 16650	125.4	114	22.0	100	68	40	0.0
HOFMEYER BINRUSTER 3	4X 16040	121.9	111	21.3	96	66	37	0.0
KENWORTHY X69A	2X 17710	99.0	90	22.5	98	68	37	0.0

MIDSTATES MS747	M2X 19070	116.9	106	20.5	98	65	41	0.0
MIDSTATES MS869	M2X 20130	124.2	113	20.5	99	66	41	0.0
MIDSTATES MS900	M2X 17250	111.3	101	22.0	99	67	38	0.0
MUNCY CHIEF SX662	2X 18010	104.5	95	22.1	97	64	36	0.0
MUNCY CHIEF H764	4X 18310	109.9	100	19.6	94	67	37	0.0
MUNCY CHIEF SX777	2X 14830	90.6	83	20.6	100	68	36	0.0
MUNCY CHIEF SX878	2X 16800	96.4	88	21.9	95	66	34	0.0
NORTHRUP KING PX74	2X 14980	104.0	95	22.7	99	67	41	0.0
NORTHRUP KING PX76	2X 15890	104.9	96	23.1	96	66	38	0.0
NORTHRUP KING PX79	2X 14980	111.5	102	19.0	99	67	40	0.0
PIONEER BRAND 3161	M3X 19220	117.6	107	22.5	98	69	40	0.0
PIONEER BRAND 3321	M2X 18310	113.5	103	22.2	98	69	35	0.0
PIONEER BRAND 3368	M2X 16500	116.6	106	21.0	97	68	37	0.0
PIONEER BRAND 3369A	2X 18460	124.4	113	22.8	97	65	41	0.0
SOUTHERN STATES SS715	3X 17710	115.2	105	18.8	98	66	40	0.0
SOUTHERN STATES SS750	SP 19070	111.7	102	20.5	97	65	38	0.0
SOUTHERN STATES SS760	2X 16950	132.9	121	20.6	96	69	39	0.0
SOUTHERN STATES SS775	2X 17100	109.6	100	21.4	93	64	38	0.0
SOUTHERN STATES SS840	4X 19070	124.8	114	23.3	98	68	41	0.0
SOUTHERN STATES SS875	4X 15740	113.1	103	20.4	93	66	42	0.0
TAYLOR-EVANS 6965	2X 17400	76.8	70	23.6	99	70	39	0.0
TAYLOR-EVANS 6968	2X 20280	135.5	123	22.5	98	64	40	0.0
TAYLOR-EVANS 6980	2X 18010	99.5	91	23.3	99	68	36	0.0
TAYLOR-EVANS 6992	2X 15890	91.3	83	20.4	99	67	36	0.0
TAYLOR-EVANS MASTERMAKER	2X 17550	92.8	85	23.9	96	67	38	0.0
TODD M88	2X 13770	92.7	84	23.0	98	63	37	0.0
TODD M90A	2X 17860	102.8	94	22.2	97	64	38	0.0
TODD M98	2X 14680	112.5	102	24.5	98	67	34	0.0
TROJAN TXS113	2X 18460	113.4	103	21.4	97	65	36	0.0
TROJAN TXS114	2X 18920	106.2	97	20.9	98	69	41	0.0
TROJAN TXS115A	2X 16040	113.2	103	18.2	98	66	41	0.0
VA35 X PA91	2X 17400	116.1	106	22.0	99	67	40	0.0
GROUP AVERAGES L.S.D. (.05)	17680	109.5 29.6	100	22.2	97	67	39	0.0
EXPERIMENT AVERAGES L.S.D. (.05)	17840	109.8 28.8	100	21.7	97	66	38	0.0

\*RELATIVE YIELD = (HYBRID YIELD/AVERAGE OF TEST) X 100.

COOPERATOR: M. T. CARTER, VIRGINIA STATE COLLEGE, PETERSBURG, VIRGINIA.

DATE PLANTED: MAY 7-9. DATES HARVESTED: SEPT. 25 - OCTOBER 3.

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

FERTILIZER APPLIED: 40-80-80 BROADCAST BEFORE PLANTING. 50-50-50 SIDEDRESSED.

WEED CONTROL: ATRAZINE PRE-EMERGE.

GROWING CONDITIONS: JULY-WET THROUGH THE 20TH, THEN DRY THROUGH AUGUST: SEPTEMBER-WET. WET AREAS IN JULY WERE DELAYED IN SILKING.

TABLE 8. CORN PERFORMANCE, BLACKSTONE, 1975

	PLANTS /ACRE	YIELD BU/A	RELATIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.								
TESTED IN EARLY MATURITY GROUP															
DENNIS 37	2X	19980	83.7	101	21.7	97	59	35							
DENNIS 47	2X	19820	98.2	118	21.7	98	60	36							
FUNKS G4408	2X	15130	66.4	80	21.0	100	58	32							
GOLDEN HARVEST H2500	2X	16040	81.5	98	22.0	100	61	38							
GOLDEN HARVEST H2580	3X	14980	74.6	90	22.0	99	60	37							
GOLDEN HARVEST H2655	M2X	16190	79.5	96	24.9	99	58	33							
HOFMEYER 3X54	3X	15590	59.0	71	22.7	98	57	33							
PIONEER BRAND 3517	M2X	18770	71.3	86	23.1	98	59	27							
PIONEER BRAND 3535	5X	18460	70.8	85	22.2	98	59	32							
PIONEER BRAND 3571	M2X	19070	81.4	98	22.1	100	59	30							
PIONEER BRAND 3780	5X	16950	64.3	77	21.3	96	56	28							
SOUTHERN STATES SS698	SP	15280	63.1	76	23.0	99	58	31							
TAYLOR-EVANS MARKETMAKER	2X	16500	64.8	78	22.1	98	57	29							
TROJAN TXS111	2X	15130	69.1	83	21.2	100	60	35							
GROUP AVERAGES		16990	73.4	88	22.2	99	59	33							
L.S.D. (.05)			17.6												
TESTED IN MID-SEASON MATURITY GROUP															
ASGROW RX100	2X	18770	73.9	89	23.4	96	59	32							
ASGROW RX114	2X	16500	75.4	91	23.8	98	62	33							
COKER 16	M2X	19070	94.2	113	24.7	99	57	35							
DEKALB XL72B	2X	18920	73.4	88	23.8	100	61	31							
DEKALB XL78	2X	20880	82.3	99	24.6	96	60	35							
DEKALB XL80	2X	19670	81.9	99	26.4	94	62	33							
DEKALB XL80A	2X	18610	95.6	115	25.3	97	62	36							
DEKALB XL394	3X	19520	105.1	126	27.1	100	67	43							
DENNIS 69	2X	18010	93.1	112	23.2	100	60	35							
FUNKS G4646	2X	15740	103.1	124	24.5	98	56	34							
FUNKS G5666	4X	17100	83.8	101	22.8	99	57	33							
GOLDEN HARVEST H2666	2X	17400	91.9	111	23.6	97	59	32							
GOLDEN HARVEST H2775	M2X	16800	110.1	132	25.4	100	60	36							
GOLDEN HARVEST XC4777	3X	16340	66.6	80	23.7	99	60	33							
HOFMEYER SX69A	2X	13320	72.4	87	23.3	95	58	34							
HOFMEYER SX71	2X	16800	79.7	96	24.4	99	58	34							
HOFMEYER BINBUSTER 3	4X	15280	78.1	94	22.8	98	59	32							
KENWORTHY X69A	2X	15440	79.0	95	23.3	100	58	33							
MIDSTATES MS747	M2X	17400	97.3	117	23.1	97	57	36							
MIDSTATES MS869	M2X	17400	85.6	103	22.9	99	59	33							
MIDSTATES MS900	M2X	18010	97.4	117	24.2	97	58	32							
MUNCY CHIEF SX662	2X	18160	70.6	85	24.4	98	57	32							
MUNCY CHIEF H764	4X	15890	85.7	103	22.9	99	57	37							
MUNCY CHIEF SX777	2X	14680	87.9	106	23.4	99	58	34							
MUNCY CHIEF SX878	2X	15130	77.2	93	23.6	100	59	34							
NORTHRUP KING PX74	2X	14380	76.3	92	21.3	98	58	37							
NORTHRUP KING PX76	2X	15590	89.1	107	24.7	99	56	34							
NORTHRUP KING PX79	2X	15280	77.6	93	21.9	98	59	35							
PIONEER BRAND 3161	M3X	16500	95.8	115	25.1	100	59	35							
PIONEER BRAND 3321	M2X	16340	100.6	121	24.7	99	60	31							
PIONEER BRAND 3368	M2X	17250	107.4	129	24.0	99	58	35							
PIONEER BRAND 3369A	2X	16340	77.0	93	23.9	98	58	35							
SOUTHERN STATES SS715	3X	14680	82.3	99	21.4	99	57	37							
SOUTHERN STATES SS750	SP	19370	84.2	101	23.6	100	59	33							
SOUTHERN STATES SS760	2X	16190	100.2	120	21.4	99	60	34							
SOUTHERN STATES SS775	2X	19670	97.9	118	23.9	98	57	35							
SOUTHERN STATES SS840	4X	16500	75.4	91	22.9	99	60	36							
SOUTHERN STATES SS875	4X	16950	80.7	97	22.1	98	59	33							
TAYLOR-EVANS 6965	2X	17860	68.6	82	24.9	99	60	32							
TAYLOR-EVANS 6968	2X	18770	89.2	107	25.1	99	58	34							
TAYLOR-EVANS 6980	2X	18310	87.6	105	23.2	98	59	35							
TAYLOR-EVANS 6992	2X	17100	93.3	112	21.8	98	57	37							
TAYLOR-EVANS MASTERMAKER	2X	18920	74.8	90	24.0	97	60	33							
TODD M88	2X	12410	65.9	79	22.8	98	57	32							
TODD M90A	2X	16650	77.6	93	23.2	97	56	34							
TODD M98	2X	16500	89.0	107	24.9	97	58	33							
TROJAN TXS113	2X	18610	85.8	103	25.0	98	56	34							
TROJAN TXS114	2X	17710	91.5	110	22.3	98	59	35							
TROJAN TXS115A	2X	18310	98.4	118	21.6	100	57	38							
VA26 X VA58	2X	18010	87.6	105	27.1	99	59	34							
GROUP AVERAGES		17100	85.9	103	23.7	98	59	34							
L.S.D. (.05)			26.7												
EXPERIMENT AVERAGES		17080	83.2	100	23.4	98	59	34							
L.S.D. (.05)			24.8												
*RELATIVE YIELD = (HYBRID YIELD/AVERAGE OF TEST) X 100.															
COOPERATORS: W. B. WILKINSON III AND R. R. WILMOUTH, SOUTHERN PIEDMONT RESEARCH AND CONTINUING EDUCATION CENTER.															
DATE PLANTED: MAY 2. DATE HARVESTED: OCTOBER 7.															
PLOT SIZE: 1 ROW 3' X 30'. REPLICATIONS: 3.															
LIME APPLIED: 1 1/2 TONS PER ACRE, APRIL 1.															
FERTILIZER APPLIED: 50-50-50 BROADCAST BEFORE PLANTING: 50-0-0 SIDEDRESSED APRIL 30.															
WEED CONTROL: 2 LBS. BLADEX APPLIED MAY 13.															
GROWING CONDITIONS: GENERALLY GOOD, BUT DRY THROUGH JUNE.															

TABLE 9. CORN PERFORMANCE, BLACKSTONE, TWO- AND THREE-YEAR AVERAGES

TWO-YEAR AVERAGES							
	PLANTS /ACRE	YIELD BU/A	RELATIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
GOLDEN HARVEST H2580	3X	16650	112.6	87	21.3	96	66
GOLDEN HARVEST H2655	M2X	18390	125.5	97	24.1	97	64
PIONEER BRAND 3517	M2X	20880	114.7	89	22.2	96	64
PIONEER BRAND 3535	5X	20730	124.6	96	21.8	99	64
PIONEER BRAND 3571	M2X	21490	126.9	98	21.4	98	65
PIONEER BRAND 3780	5X	18540	107.6	83	20.6	93	62
SOUTHERN STATES SS698	SP	17250	108.6	84	22.0	97	65
TAYLOR-EVANS MARKETMAKER	2X	18920	108.4	84	21.6	96	63
TROJAN TXS111	2X	17030	117.8	91	20.5	98	66
GROUP AVERAGES		18870	116.3	90	21.7	97	64
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW RX100	2X	20200	132.2	102	21.8	93	66
COKER 16	M2X	20350	138.0	107	22.2	95	64
FUNKS G4646	2X	18460	140.6	109	21.8	92	63
GOLDEN HARVEST H2775	M2X	17330	146.9	114	22.7	96	68
HOFMEYER SX69A	2X	15960	119.8	93	21.8	94	66
HOFMEYER SX71	2X	17860	131.1	101	23.1	95	66
MIDSTATES MS869	M2X	18390	132.1	102	21.1	93	65
MIDSTATES MS900	M2X	19140	139.4	108	22.4	87	66
MUNCY CHIEF SX662	2X	19520	128.4	99	23.5	96	63
MUNCY CHIEF SX878	2X	17100	123.5	95	21.6	94	66
NORTHRUP KING PX74	2X	17330	127.1	98	20.3	90	65
NORTHRUP KING PX76	2X	17700	126.6	98	22.2	95	64
NORTHRUP KING PX79	2X	17930	137.2	106	20.6	91	66
PIONEER BRAND 3321	M2X	19220	136.4	105	22.3	98	68
PIONEER BRAND 3368	M2X	18390	146.3	113	22.2	97	65
PIONEER BRAND 3369A	2X	18990	136.8	106	21.7	95	65
SOUTHERN STATES SS715	3X	17100	114.9	89	19.9	93	64
SOUTHERN STATES SS750	SP	21190	126.2	98	21.4	93	66
SOUTHERN STATES SS775	2X	21190	146.0	113	21.7	94	64
SOUTHERN STATES SS840	4X	17930	127.8	99	21.2	87	67
SOUTHERN STATES SS875	4X	18610	126.8	98	21.0	90	65
TAYLOR-EVANS 6968	2X	19450	136.3	105	22.2	97	65
TAYLOR-EVANS 6980	2X	19450	126.2	98	21.3	90	67
TAYLOR-EVANS MASTERMAKER	2X	20130	125.0	97	22.1	93	67
TROJAN TXS113	2X	20280	131.5	102	22.4	96	63
TROJAN TXS114	2X	20130	144.6	112	20.5	92	66
TROJAN TXS115A	2X	19450	146.5	113	20.2	95	65
VA26 X VA58	2X	18390	144.9	112	24.0	96	67
GROUP AVERAGES		18830	133.5	103	21.8	94	65
EXPERIMENT AVERAGES		18840	129.3	100	21.8	94	65

THREE-YEAR AVERAGES, BLACKSTONE

THREE-YEAR AVERAGES, BLACKSTONE							
	PLANTS /ACRE	YIELD BU/A	RELATIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
PIONEER BRAND 3571	M2X	21690	124.1	98	21.8	98	67
SOUTHERN STATES SS698	SP	18460	112.5	89	22.3	98	66
TAYLOR-EVANS MARKETMAKER	2X	19730	108.1	85	21.8	97	65
TROJAN TXS111	2X	17450	120.6	95	20.4	99	67
GROUP AVERAGES		19330	116.3	92	21.5	98	66
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW RX100	2X	19880	130.8	103	21.9	95	68
COKER 16	M2X	20480	133.5	105	23.0	97	66
FUNKS G4646	2X	19170	135.0	106	21.3	94	65
MUNCY CHIEF SX662	2X	19220	122.5	97	23.9	97	66
MUNCY CHIEF SX878	2X	16840	117.1	92	22.4	96	67
PIONEER BRAND 3368	M2X	18410	140.5	111	21.7	98	67
PIONEER BRAND 3369A	2X	18870	136.0	107	21.6	96	67
SOUTHERN STATES SS750	SP	21790	128.6	101	22.2	94	68
SOUTHERN STATES SS775	2X	21190	142.0	112	21.4	96	65
SOUTHERN STATES SS840	4X	18310	129.2	102	21.2	91	69
SOUTHERN STATES SS875	4X	18820	122.7	97	20.9	93	67
TAYLOR-EVANS MASTERMAKER	2X	19470	123.9	98	21.9	94	69
TROJAN TXS113	2X	20330	130.4	103	23.2	97	65
GROUP AVERAGES		19440	130.2	103	22.0	95	67
EXPERIMENT AVERAGES		19420	126.9	100	21.9	96	67

TABLE 10. CORN PERFORMANCE, GLADE SPRING, 1975

		PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP								
DENNIS 37	2X	18460	174.5	118	20.5	98	69	54
DENNIS 47	2X	16800	137.3	93	19.7	89	69	50
PIONEER BRAND 3571	M2X	19520	145.3	98	19.8	98	70	47
PIONEER BRAND 3535	5X	20430	170.3	115	20.1	98	68	55
SOUTHERN STATES 450	2X	18460	133.4	90	19.4	70	67	44
SOUTHERN STATES 598	2X	20580	157.4	106	20.0	96	66	47
SOUTHERN STATES 698	SP	15890	135.8	92	21.5	93	68	47
TAYLOR-EVANS MARKETMAKER	2X	19220	147.6	100	20.5	96	67	49
TROJAN TXS111	2X	17400	143.4	97	20.3	98	70	58
GROUP AVERAGES		18530	149.4	101	20.2	93	68	50
L.S.D. (.05)			27.8					
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW RX100	2X	19070	166.8	112	23.4	98	72	52
COKER 16	M2X	18920	169.1	114	21.4	99	68	50
DEKALB XL72B	2X	18160	153.0	103	22.6	99	73	47
DEKALB XL80	2X	18160	156.4	105	23.2	96	75	48
DEKALB XL380	3X	16190	151.5	102	22.7	98	74	48
DENNIS 69	2X	17100	148.6	100	22.4	99	74	48
FUNKS G4611	2X	16950	158.4	107	22.0	96	71	51
FUNKS G4646	2X	16800	148.5	100	21.3	95	69	48
FUNKS G5666	4X	16190	142.3	96	22.7	98	73	46
FUNKS G5757	4X	15890	156.9	106	23.3	97	74	51
KENWORTHY X55	3X	14680	132.8	90	21.1	98	72	48
KENWORTHY X69A	2X	15890	147.2	99	22.1	97	71	44
KENWORTHY 88XA	2X	16650	133.7	90	20.0	95	71	46
MUNCY CHIEF SX662	2X	17550	136.2	92	21.6	95	69	45
MUNCY CHIEF SX878	2X	14980	139.7	94	23.4	96	73	44
NORTHRUP-KING PX74	2X	14380	143.2	97	21.0	99	70	52
NORTHRUP-KING PX76	2X	17100	164.3	111	21.6	96	68	47
NORTHRUP-KING PX79	2X	16340	152.2	103	22.8	99	75	53
PIONEER BRAND 3321	M2X	17250	148.0	100	23.5	99	75	43
PIONEER BRAND 3368	M2X	18460	162.2	109	21.9	97	74	49
PIONEER BRAND 3368A	M2X	16800	154.2	104	23.0	96	75	49
PIONEER BRAND 3369A	2X	16040	144.4	97	21.8	98	70	48
SOUTHERN STATES 715	3X	17100	146.0	98	20.9	96	74	52
SOUTHERN STATES 750	SP	17710	143.7	97	21.7	100	71	48
SOUTHERN STATES 840	4X	15890	149.1	101	23.4	92	75	50
SOUTHERN STATES 875	4X	17860	155.9	105	21.7	96	72	49
TAYLOR-EVANS 6965	2X	15440	121.8	82	23.8	99	73	50
TAYLOR-EVANS 6968	2X	16340	154.2	104	21.4	95	70	49
TAYLOR-EVANS 6980	2X	14980	134.4	91	24.5	97	74	52
TAYLOR-EVANS 6992	2X	14980	137.1	92	21.8	97	70	49
TAYLOR-EVANS MASTERMAKER	2X	18010	135.1	91	23.7	97	76	50
THOMPSON 219A	4X	16500	156.9	106	22.5	94	74	45
THOMPSON 220B	M2X	17100	132.9	90	22.3	100	73	48
THOMPSON 221	2X	16650	149.0	100	21.7	95	76	51
TROJAN TXS113	2X	17100	148.5	100	21.9	95	70	48
TROJAN TXS115A	2X	17100	164.9	111	21.1	99	72	51
WHEELER 300	M3X	16500	145.5	98	22.1	94	71	48
(VA14 X 02047) X LE8	3X	17250	141.5	95	25.3	99	77	53
GROUP AVERAGES		16740	148.1	100	22.3	97	72	49
L.S.D. (.05)			26.4					
EXPERIMENT AVERAGES		17080	148.3	100	21.9	96	72	49
L.S.D. (.05)			27.1					

\*RELATIVE YIELD = (HYBRID YIELD/AVERAGE OF TEST) X 100.

COOPERATOR: L. A. LINK, SOUTHWEST VIRGINIA RESEARCH STATION, GLADE SPRING, VIRGINIA.

DATE PLANTED: MAY 7. DATE HARVESTED: OCTOBER 21.

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

FERTILIZER APPLIED: 150-80-80 DISKED IN BEFORE PLANTING.

GROWING CONDITIONS: GOOD EXCEPT FOR A SHORT DRY PERIOD IN AUGUST.

TABLE 11. CORN PERFORMANCE, GLADE SPRING, TWO- AND THREE-YEAR AVERAGES

<u>TWO-YEAR AVERAGES</u>	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
DENNIS 37	2X 19070	161.4	119	20.9	99	77	50
DENNIS 47	2X 17780	131.2	96	19.8	92	78	48
SOUTHERN STATES 598	2X 22400	133.3	98	19.7	96	76	44
SOUTHERN STATES 698	SP 17330	123.4	91	21.3	95	77	44
TAYLOR-EVANS MARKETMAKER	2X 20810	126.4	93	19.9	97	76	44
TROJAN TXS111	2X 19220	142.5	105	19.5	98	78	54
GROUP AVERAGES	19430	136.4	100	20.2	96	77	47
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW RX100	2X 20500	150.9	111	23.8	97	80	52
COKER 16	M2X 19370	144.3	106	21.9	99	79	47
DEKALB XL72B	2X 20130	133.4	98	24.4	98	82	47
DEKALB XL80	2X 19830	138.3	102	24.6	95	84	48
DEKALB XL380	3X 18540	138.2	102	23.0	94	82	47
DENNIS 69	2X 18770	139.5	103	22.3	94	82	48
FUNKS G4646	2X 19070	135.2	99	21.9	91	79	45
KENWORTHY X55	3X 17250	123.4	91	21.3	97	81	48
KENWORTHY X69A	2X 18920	126.1	93	22.6	94	81	44
MUNCY CHIEF SX662	2X 20200	139.5	102	22.5	95	77	44
MUNCY CHIEF SX878	2X 17630	130.9	96	24.7	93	82	46
NORTHROP-KING PX74	2X 17250	135.8	100	21.7	97	79	50
NORTHROP-KING PX76	2X 18990	146.9	108	21.7	97	77	47
NORTHROP-KING PX79	2X 19670	144.0	106	23.4	98	82	51
PIONEER BRAND 3321	M2X 18990	139.7	103	25.0	99	84	44
PIONEER BRAND 3368	M2X 19830	133.5	98	22.3	97	83	48
PIONEER BRAND 3369A	2X 18160	130.1	96	22.0	96	81	48
SOUTHERN STATES 715	3X 19150	135.5	100	20.9	96	82	50
SOUTHERN STATES 750	SP 21110	126.8	93	21.8	94	80	48
SOUTHERN STATES 840	4X 17250	131.4	97	23.6	93	82	47
SOUTHERN STATES 875	4X 18080	137.4	101	21.6	97	81	46
TAYLOR-EVANS 6968	2X 19520	138.7	102	21.7	93	80	47
TAYLOR-EVANS 6980	2X 17630	128.0	94	26.7	96	82	51
TAYLOR-EVANS MASTERMAKER	2X 20200	132.4	97	24.9	96	83	49
TROJAN TXS113	2X 19830	145.5	107	21.6	96	78	47
WHEELER 300	M3X 18010	130.4	96	22.8	93	80	47
GROUP AVERAGES	18990	136.0	100	22.9	96	81	47
EXPERIMENT AVERAGES	19080	136.1	100	22.4	96	80	47

THREE-YEAR AVERAGES, GLADE SPRING

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
SOUTHERN STATES 598	2X 21590	130.9	99	17.9	96	78	40
SOUTHERN STATES 698	SP 18210	127.7	97	19.8	96	79	40
TAYLOR-EVANS MARKETMAKER	2X 19320	120.1	91	18.4	97	78	40
TROJAN TXS111	2X 18210	143.5	109	18.7	97	79	49
GROUP AVERAGES	19330	130.6	99	18.7	97	79	43
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW RX100	2X 18870	135.9	103	22.8	91	81	47
COKER 16	M2X 19220	148.4	113	20.5	98	80	44
DENNIS 69	2X 18510	135.3	103	21.4	89	83	45
FUNKS G4646	2X 18560	129.4	98	20.8	87	80	41
KENWORTHY X55	3X 17250	124.8	95	20.0	97	81	45
KENWORTHY X69A	2X 17960	124.3	94	21.2	95	82	41
MUNCY CHIEF SX662	2X 18760	134.2	102	21.3	96	78	40
MUNCY CHIEF SX878	2X 16440	124.6	95	23.5	91	83	43
PIONEER BRAND 3368	M2X 18810	126.7	96	21.3	96	83	44
PIONEER BRAND 3369A	2X 17610	129.3	98	20.6	96	81	45
SOUTHERN STATES 750	SP 20840	134.0	102	20.5	94	81	43
SOUTHERN STATES 840	4X 16900	129.8	98	22.2	91	83	45
SOUTHERN STATES 875	4X 17710	134.6	102	20.9	91	82	43
TAYLOR-EVANS MASTERMAKER	2X 19020	131.2	100	24.0	96	83	46
TROJAN TXS113	2X 19070	145.0	110	20.2	97	79	44
WHEELER 300	M3X 17450	126.3	96	22.0	81	81	45
GROUP AVERAGES	18310	132.1	100	21.5	93	81	44
EXPERIMENT AVERAGES	18520	131.8	100	20.9	94	81	44

Table 12. Summary of results of the test grown under virus (MDM) infection, Wingina, 1975

Hybrid Name or Brand	Grain yield Bushel/acre		Pct. H <sub>2</sub> O at harvest		Pct. erect plants		Ear ht. (in.)	Grain quality*
	1975	1974-	1975	1974-	1975	1974-		
		1975		1975		1975		
N6J X A239	135.4		18.7		100		57	3.1
Funks G4525	137.1		19.8		94		54	1.9
Southern States 760	93.4		20.8		86		39	3.3
Golden Harvest H2626	73.8	63.7	20.9	22.9	87	86	58	2.9
Kenworthy X 73	72.9	89.9	21.5	22.7	70	76	54	3.6
Va(07B36)-4-828 X N6J	132.7		21.5		88		54	1.6
Woods Special	125.7	120.4	21.7	23.8	87	87	55	1.9
Kenworthy 708L	60.7	57.4	22.2	24.0	63	63	57	2.8
Hofmeyer SX66R	98.6	98.4	22.3	25.3	76	79	57	1.5
DeKalb XL72B	132.5	115.3	22.4	25.4	99	90	53	2.6
Northrup-King PX91	100.4	85.3	22.6	26.1	92	78	56	2.4
Northrup-King 1923	136.2		22.8		93		67	2.3
PAG SX17A	99.7	93.9	23.1	25.2	89	87	57	3.4
PAG SX605	93.3		23.1		82		67	2.5
Golden Harvest X C4728	155.9		23.3		91		73	1.3
Va(07B36)-4-828 X Va94	121.9		23.3		89		47	2.4
Golden Harvest H2740	111.1		23.6		96		63	3.6
Watson 453	75.4		23.8		70		55	2.4
Northrup-King PX737	126.6	133.4	24.4	28.0	90	87	72	2.0
Watson 417	70.8		24.9		70		52	2.1
DeKalb XL94	124.4		25.6		92		60	2.4
Pioneer Brand 3147	130.9	118.8	26.2	29.9	95	85	63	3.0
DeKalb XL394	163.7	145.5	27.0	30.4	97	92	60	1.5
Test Average	111.9	102.0	22.8	25.8	87	83	58	2.5

\*Grain quality score: 1 = very good to 5 = very poor.

Cooperators: Cliff Wood, C. F. Genter.

Date planted: May 20. Date harvested: October 15.

Plot size: 1 row 38" x 20'. Replications: 4.

Fertilizer applied: 130-90-180 before planting.

Growing conditions: Good. Virus symptoms were prevalent in some varieties.