

# 1969 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. In general, only those hybrids are entered that are submitted by the several hybrid corn companies that sell hybrid seed in Virginia, but several others have been entered in 1969 at the request of professional workers in Virginia; or, in some cases, to compare progress that has been made over the past several years.

Seed for all plots was packaged at Blacksburg with plots over-seeded and later thinned to a final stand for each hybrid to correspond as nearly as possible to the plant population recommended for each hybrid by the company that produced it. All trials contained three replications. Plots were single rows thirty feet long. Rows were thirty inches apart at Orange, Holland and Blacksburg, and thirty-six inches apart at all other locations.

Hybrids were grouped into early, mid-season and full season maturity groups based either on past performance in Virginia or on information furnished by the originating company. In addition, hybrids classified as "early short" were grouped together. Appropriate border rows were planted adjacent to each group of hybrids to minimize border effects. Maturity groups were harvested at different dates as they matured. Consequently, a comparison of moisture contents at harvest among hybrids in different maturity groups is not valid. Cultural practices are given as footnotes with each table of 1969 data.

A "relative yield" was calculated for each hybrid in each table based on the respective over-all mean. These values give a ready comparison of each hybrid under the conditions of the trial, not only between hybrids in the same group, but between hybrids in different maturity groups.

The following data are reported in one or more tables: Actual final plant stands per acre; yield of shelled corn in bushels per acre corrected to 15 1/2% moisture; relative yield; percent of moisture in the grain at harvest; percent of 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 at 15 1/2% moisture. Shelled corn weights were obtained at Holland, Orange and Blacksburg.

Recommendations of hybrids for Virginia are not made by the VPI Research Division. Those hybrids which performed above average for the trial in both yield and standability have been underlined at each location.

Recommendations of hybrids for Virginia are not made by the VPI Research Division. Those hybrids that were above the test average in yield and that were as good or better than the average for their maturity group have been underlined at each location. Different harvest dates make an over-all comparison of standability 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 by VPI. The list of brand names and the sources of seed of tested hybrids is as follows:

<u>Hybrid Name</u>	<u>Source of Seed--Contributors of Seed</u>
Asgrow	Asgrow Seed Co., Mechanicsburg, Pa. 17055
Clark	Clark Seed Co., Inc., Kenton, Delaware 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, Virginia 23185
McNair	McNair Seed Co., Box 706, Laurinburg, N. C. 28352
Muncy Chief	The Hoffman Seed & Grain Co., Munch, Pennsylvania 17756
NJCIA	New Jersey Crop Imp. Cooperative Association, Inc., Allentown, New Jersey 08501
Northrup-King	Northrup-King and Co., 1500 Jackson St. N. E., Minneapolis, Minnesota 55413
PAG	W. R. Grace & Co., Agricultural Prod. Div., Box 1321, Norfolk, Virginia 23501
Park	Park Seed Farms, Urbana, Ohio 43078
Pioneer	Pioneer Corn Company, Inc., 221 N. Main St., Tipton, Ind. 46072
Southern States	Southern States Cooperative, 2600 Durham St., Richmond, Va. 23220
Stull	Stull Bros., Inc., Sebree, Kentucky 42455
Taylor-Evans	Taylor-Evans Seed Co., Box 480, Tulia, Texas 79088
Thompson	G. C. Thompson & Son, Route 1, Eagle Rock, Virginia 24085
Todd	Todd Hybrid Sales, Box 66, Abbottstown, Pennsylvania 17301
Trojan	Trojan Seed Co., Box 367, Windfall, Ind. 46076
Watson	Watson Seed Farm, Rocky Mount, North Carolina 27801
Wheeler	J. H. Wheeler, Ewing, Virginia 24248

#### VIRGINIA HYBRIDS IN YIELD TRIALS IN 1967

<u>Hybrid</u>	<u>Pedigree</u>
VPI 646	(WF9 x T8) (38-11 x C103)
VPI 648	(WF9 x T8) (Hy3 x C103)

TABLE 1. MEANS AND RANGES OF PERFORMANCE OF MATURITY GROUPS OF HYBRIDS IN THE 1969 TRIALS IN VIRGINIA.

Location	Maturity Group	Yield, Bu./Acre		% H <sub>2</sub> O	% Erect	Days to silk		Ear Ht. (in.)	
		Mean	Range	Mean	Mean	Mean	Range	Mean	Range
Holland	Early	128.1	99.0-152.3	20.0	95	65	60-68	45	42-49
	Midseason	125.8	74.7-158.7	19.2	94	68	66-69	48	42-52
	Full season	135.8	127.2-153.9	21.6	90	69	68-70	50	47-53
Warsaw	Early	108.7	68.5-136.0	23.5	30	66	63-70	41	34-46
	Midseason	110.6	68.5-138.1	22.0	34	70	67-73	43	38-47
	Full season	119.2	105.5-138.9	22.9	16	73	72-75	46	43-51
Petersburg	Early	70.6	33.9- 91.9	19.0	81	72	69-75	33	25-43
	Midseason	81.5	65.1-108.7	20.8	77	74	71-75	41	34-48
	Full season	79.6	71.8- 99.6	24.7	79	75	74-76	38	37-42
Charlotte C.H.	Early	111.7	95.3-133.7	22.8	87	65	63-67	37	32-39
	Midseason	113.1	85.7-132.2	21.1	90	68	66-70	39	35-44
	Full season	118.2	100.0-139.5	21.9	84	70	69-71	44	42-46
Orange	Early	122.8	94.6-148.6	16.3	95	75	73-78	43	40-46
	Midseason	125.8	87.2-154.6	16.2	94	78	73-83	50	46-58
	Full season	120.5	99.1-152.1	15.9	90	82	80-91	51	37-60
Blacksburg	Early	121.6	64.7-149.2	22.0	90	74	70-77	35	28-40
	Midseason	120.1	86.9-147.7	19.2	82	77	73-81	40	34-46
	Full season	112.8	97.3-126.4	21.9	78	82	79-85	41	37-51
Glade Spring	Early	138.7	117.9-167.5	26.8	85	--	-----	39	30-46
	Midseason	141.5	79.4-168.5	19.9	80	--	-----	44	38-55
	Full season	138.9	110.4-180.9	21.9	81	--	-----	51	42-60

TABLE 2. CORN PERFORMANCE, HOLLAND, VIRGINIA, 1969.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW 1XL5	2X 24290	99.7	78	18.6	87	66	42
ASGROW ASC61	2X 22000	114.2	90	20.0	94	60	44
ASGROW ATC79	3X 22180	137.4	108	20.2	98	65	46
<u>ASGROW ASC91</u>	2X 21820	146.8	115	22.5	99	66	44
<u>CLARK SX306</u>	2X 20590	148.8	117	20.3	98	67	47
<u>CLARK SX707</u>	2X 20590	152.3	120	22.9	97	66	47
<u>CLARK SX723A</u>	2X 20420	135.5	106	18.9	98	64	44
<u>CLARK SX724</u>	2X 20590	124.3	98	19.9	97	69	47
DEKALB XL45	2X 23230	114.1	90	20.2	98	64	45
DEKALB XL66	2X 21120	150.9	118	22.1	93	63	44
DEKALB XL346	3X 22700	113.1	89	21.7	95	64	45
DEKALB XL347	3X 21120	118.1	93	20.2	97	62	44
FUNK G4384	2X 17420	122.9	97	19.6	90	65	44
<u>FUNK G4411</u>	2X 21120	136.9	107	18.6	95	64	48
FUNK G4444	2X 21120	122.1	96	18.2	98	61	44
FUNK G4473	SP 21120	106.8	84	20.0	95	65	46
FUNK G4595	SP 20240	142.1	112	22.5	99	65	45
<u>HOFMEYER 3X40</u>	3X 21120	150.9	118	23.0	93	65	46
<u>HOFMEYER SX50</u>	2X 21120	146.5	115	21.2	100	67	45
<u>MCNAIR X100</u>	2X 23230	127.8	100	18.0	96	64	45
<u>MCNAIR SI40</u>	SP 23060	145.6	114	19.6	96	65	43
MUNCY CHIEF SX770	2X 22180	124.3	98	20.6	94	67	46
MUNCY CHIEF SX880	2X 18480	115.4	91	20.2	90	66	46
NORTHRUP-KING PX50	2X 21120	126.6	99	18.1	96	63	47
NORTHRUP-KING PX610	3X 21120	137.8	108	19.4	97	65	45
<u>NORTHRUP-KING PX616</u>	SP 20770	133.3	105	21.1	97	67	45
PAG SX31	2X 24290	121.8	96	19.0	96	65	48
PAG SX52	2X 22880	99.0	78	19.3	86	63	42
PIONEER 3564	SP 20590	120.2	94	19.4	97	53	46
<u>PIONEER 3570</u>	SP 22180	145.7	114	18.9	98	67	44
SOUTHERN STATES 707EXP	2X 22000	115.0	90	19.5	93	63	46
TAYLOR-EVANS BONUSMAKER	2X 23230	100.5	79	19.3	96	63	44
TAYLOR-EVANS BONUSMAKER S	2X 23230	120.2	94	20.0	94	65	45
TAYLOR-EVANS GROMASTER	4X 21120	124.0	97	18.9	92	64	45
<u>TAYLOR-EVANS HARVESTMASTER</u>	4X 21120	134.8	106	20.0	95	67	45
<u>TAYLOR-EVANS 6807</u>	2X 23230	131.2	103	18.3	98	63	45
<u>TODD M70</u>	2X 18480	142.3	112	22.3	100	66	45
TODD 616	4X 16370	112.2	88	19.1	90	64	46
TODD 635	4X 15310	115.1	90	19.5	92	65	47
<u>TROJAN M114</u>	3X 19540	145.0	114	19.1	96	64	49
TROJAN EXP2475	3X 20940	109.3	86	19.5	92	67	48
<u>TROJAN EXP2650</u>	2X 19540	150.6	118	21.7	96	68	46
GROUP AVERAGES	21140	128.1	101	20.0	95	65	45
L.S.D.		17.7					

TESTED IN MID-SEASON MATURITY GROUP

ASGROW ASC95	2X	19180	121.7	96	19.2	93	68	50
ASGROW ATC106	3X	20590	109.9	86	19.7	91	68	47
ASGROW 1XL8	2X	22000	120.2	94	17.8	86	68	47
ASGROW 1XL9	2X	22180	145.7	114	19.5	97	68	49
DEKALB 805A	2X	14780	126.5	99	18.8	96	66	48
FUNK G4644	2X	18480	134.1	105	20.6	97	68	50
FUNK G4697	SP	20590	143.5	113	21.1	94	67	49
FUNK G5757	4X	20240	126.8	100	20.0	95	68	51
HOFMEYER SX51	2X	20590	132.3	104	19.9	95	68	52
HOFMEYER H55	SP	18480	114.6	90	18.7	94	69	49
MCNAIR S190	SP	20590	138.6	109	18.3	90	67	46
MCNAIR 198	4X	17420	75.3	59	19.0	97	66	45
MCNAIR X202	2X	20590	119.8	94	19.1	92	68	47
MCNAIR X204	2X	20590	138.8	109	18.9	92	68	49
NORTHRUP-KING PX72	2X	21120	135.1	106	18.4	94	68	48
NORTHRUP-KING PX678	SP	20590	123.5	97	18.0	96	68	47
PAG SX29	2X	25170	130.8	103	17.9	97	68	49
PAG 308	4X	19360	108.7	85	17.7	95	67	40
PIONEER 3306	2X	20060	135.4	106	18.4	95	67	50
PIONEER 3308	3X	19010	147.5	116	19.7	95	68	50
PIONEER 3369A	2X	18830	158.7	125	19.7	98	66	51
PIONEER 3516	2X	20420	132.4	104	19.1	97	67	46
SOUTHERN STATES 720	SP	20590	114.8	90	18.5	91	68	47
SOUTHERN STATES 750	SP	24290	155.0	122	18.9	99	68	48
SOUTHERN STATES 820S	2X	18480	111.4	87	18.6	91	68	49
SOUTHERN STATES 840	4X	19180	127.4	100	19.8	86	67	51
SOUTHERN STATES 865	4X	19540	121.6	95	18.9	97	68	47
TAYLOR-EVANS CASHMAKER	2X	23060	137.7	108	19.5	97	68	44
TAYLOR-EVANS E20YA	4X	19540	116.6	92	19.4	97	67	48
TAYLOR-EVANS MINTMAKER	2X	21120	116.7	92	19.5	96	68	48
TODD M90	2X	18830	137.7	108	18.6	80	68	49
TODD 92A	2X	16370	97.0	76	18.0	90	67	49
TODD 875	4X	16370	74.7	59	17.4	90	66	42
TROJAN CF66	2X	18480	122.0	96	19.0	93	67	48
TROJAN CF105	2X	19360	134.1	105	19.9	95	68	48
TROJAN CF123	4X	19540	140.7	110	20.0	96	67	49
TROJAN TX115	3X	19540	113.8	89	19.1	93	68	46
TROJAN TXS115	2X	19540	110.6	87	19.6	95	68	46
WATSON 401A	4X	19360	142.5	112	21.6	95	67	50
WATSON 428	SP	19540	133.0	104	21.6	98	69	47
WATSON 430	SP	19360	131.0	103	21.6	91	68	51

GROUP AVERAGES 19830 125.8 99 19.2 94 68 48

L.S.D. 16.8

TESTED IN FULL SEASON MATURITY GROUP

MCNAIR 6905	4X	20590	153.9	121	20.9	96	69	47
PAG 492	4X	17950	129.7	102	20.8	88	70	51
VA P3T3	SP	19540	132.4	104	22.3	87	69	53
WATSON 199	SP	19360	127.2	100	22.6	88	68	48

GROUP AVERAGES 19360 135.8 107 21.6 90 69 50

L.S.D. 28.6

EXPERIMENT AVERAGES 20440 127.4 100 19.7 94 66 47

L.S.D. 17.2

COOPERATOR: M. W. ALEXANDER, TIDEWATER RESEARCH STATION, HOLLAND, VA.

DATE PLANTED: MAY 1. DATES HARVESTED: EARLY GROUP, SEPT. 9,

MEDIUM AND FULL SEASON GROUPS, SEPT. 27.

PLOT SIZE: 1 ROW, 30 FEET LONG, 30 INCHES BETWEEN ROWS. REPLICATIONS: 3.

FERTILIZER BEFORE PLANTING: 40-80-80 PER ACRE.

FERTILIZER AT PLANTING: 160 LBS. N PLUS ATRAZINE.

GROWING CONDITIONS: GOOD.

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

## TWO-YEAR AVERAGES, 1968-69

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT RECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW ASC61	2X 22010	123.6	90	21.2	97	63	36
ASGROW ATC79	3X 21940	144.2	105	21.4	97	67	41
ASGROW ASC91	2X 21920	152.5	111	22.8	99	67	39
CLARK SX707	2X 20390	145.4	106	23.1	97	67	39
DEKALB XL347	3X 20650	132.6	97	21.8	97	65	36
FUNK G4384	2X 16970	128.9	94	20.9	94	66	44
FUNK G4411	2X 20340	133.2	97	20.4	95	66	42
FUNK G4444	2X 20040	118.7	86	19.7	98	63	38
FUNK G4473	SP 20340	118.7	86	20.9	96	66	40
HOFMEYER 3X40	3X 20650	147.9	108	23.4	95	66	39
MCNAIR S140	SP 21620	142.3	104	20.7	96	67	39
MUNCY CHIEF SX770	2X 20260	124.5	91	21.1	97	68	40
MUNCY CHIEF SX880	2X 18410	136.9	100	21.8	94	69	44
NORTHRUP-KING PX50	2X 20570	122.7	89	19.8	95	65	40
NORTHRUP-KING PX610	3X 20650	135.7	99	20.9	94	66	39
NORTHRUP-KING PX616	SP 20470	140.3	102	22.2	95	68	41
PIONEER 3570	SP 22090	153.0	111	20.3	97	67	40
TAYLOR-EVANS BONUSMAKER	2X 22620	116.6	85	20.5	97	64	35
TAYLOR-EVANS BONUSMAKER S	2X 22550	131.8	96	21.6	94	66	40
TAYLOR-EVANS GROMASTER	4X 20500	133.2	97	19.3	91	66	41
TAYLOR-EVANS HARVESTMASTER	4X 21570	143.6	105	20.9	97	67	42
GROUP AVERAGES	20790	134.6	98	21.2	96	66	40
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW ASC95	2X 18760	138.6	101	21.5	95	69	44
ASGROW ATC106	3X 19470	131.4	96	21.7	94	70	44
FUNK G4644	2X 17500	140.5	102	22.6	98	70	45
FUNK G4697	SP 19470	147.4	107	22.5	96	68	45
FUNK G5757	4X 19290	135.9	99	22.7	90	69	47
HOFMEYER H55	SP 16580	125.3	91	20.9	95	70	46
MCNAIR X202	2X 17630	132.4	96	21.3	95	70	42
NORTHRUP-KING PX72	2X 20650	141.7	103	20.8	93	68	43
PIONEER 3306	2X 20040	150.6	110	20.7	94	70	45
PIONEER 3308	3X 18670	150.5	110	21.5	96	69	46
PIONEER 3369A	2X 19810	174.0	127	21.7	99	69	48
SOUTHERN STATES 720	SP 20390	136.8	100	20.3	88	69	43
SOUTHERN STATES 820S	2X 17500	125.6	91	20.4	95	69	42
TAYLOR-EVANS CASHMAKER	2X 22530	147.5	107	21.4	97	69	40
TAYLOR-EVANS MINTMAKER	2X 20570	133.0	97	20.9	97	70	44
TODD 92A	2X 16440	112.3	82	20.2	94	68	44
TROJAN CF66	2X 17420	134.7	98	21.1	96	70	44
TROJAN CF105	2X 18700	135.4	99	21.8	97	71	41
TROJAN CF123	4X 18940	145.2	106	22.3	96	70	47
WATSON 401A	4X 18850	156.7	114	23.0	91	68	48
WATSON 430	SP 18850	145.6	106	24.3	94	71	49
GROUP AVERAGES	18950	140.0	102	21.6	95	69	45
TESTED IN FULL SEASON MATURITY GROUP							
WATSON 199	SP 18700	140.3	102	23.3	90	71	47
GROUP AVERAGES	18700	140.3	102	23.3	90	71	47
EXPERIMENT AVERAGES	19840	137.4	100	21.4	95	68	42

## THREE-YEAR AVERAGES, 1967-68-69

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	FAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW ASC61	2X 22730	130.3	91	21.5	87	68	37
ASGROW ATC79	3X 21750	149.9	105	22.0	84	71	44
<u>CLARK SX707</u>	2X 20850	154.2	108	23.0	83	71	43
FUNK G4473	SP 20290	124.3	87	21.3	85	71	40
MUNCY CHIEF SX770	2X 19430	134.2	94	21.1	80	74	45
MUNCY CHIEF SX880	2X 18190	144.3	101	21.9	78	73	47
NORTHRUP-KING PX50	2X 20890	135.9	95	20.4	85	70	42
NORTHRUP-KING PX610	3X 21030	139.1	97	21.1	78	71	43
NORTHRUP-KING PX616	SP 20910	147.5	103	22.2	76	72	44
TAYLOR-EVANS BONUSMAKER	2X 22340	127.6	89	21.5	80	69	39
TAYLOR-EVANS GROMASTER	4X 20920	133.4	93	19.8	73	71	44
GROUP AVERAGES	20850	138.3	97	21.4	81	71	43
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW ASC95	2X 18430	142.2	99	21.9	85	75	48
ASGROW ATC106	3X 18900	142.9	100	22.6	86	75	48
<u>FUNK G4644</u>	2X 18390	144.4	101	23.3	78	75	48
FUNK G4697	SP 19700	152.8	107	22.5	74	74	49
FUNK G5757	4X 19590	140.9	98	22.6	67	75	50
HOFMEYER H55	SP 16930	137.2	96	21.8	84	74	49
MCNAIR X202	2X 17670	138.1	96	21.5	74	75	45
PIONEER 3306	2X 20490	157.9	110	21.2	73	75	50
SOUTHERN STATES 720	SP 20850	149.4	104	21.1	77	75	48
SOUTHERN STATES 820S	2X 18390	131.1	92	21.2	70	75	48
<u>TAYLOR-EVANS CASHMAKER</u>	2X 23090	158.8	111	22.1	81	73	43
TAYLOR-EVANS MINTMAKER	2X 20970	141.8	99	21.6	71	74	47
TODD 92A	2X 16880	118.9	83	20.9	88	74	46
TROJAN CF66	2X 16990	139.9	98	21.4	77	75	47
<u>TROJAN CF105</u>	2X 18380	151.0	105	22.6	93	75	45
<u>TROJAN CF123</u>	4X 18550	155.0	108	22.7	93	75	50
WATSON 401A	4X 19290	164.8	115	22.9	67	74	52
WATSON 430	SP 19290	151.4	106	23.9	73	75	51
GROUP AVERAGES	19040	145.5	102	22.1	78	75	48
TESTED IN FULL SEASON MATURITY GROUP							
WATSON 199	SP 19190	155.4	109	23.5	67	77	52
GROUP AVERAGES	19190	155.4	109	23.5	67	77	52
EXPERIMENT AVERAGES	19710	143.2	100	21.9	79	73	46



TABLE 4. CORN PERFORMANCE, WARSAW, VIRGINIA, 1969.

	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 ASC61	2X	22590	92.0	84	22.3	12	63	39 4.0
ASGROW ATC79	3X	22590	113.2	103	24.4	32	66	39 2.8
ASGROW ASC91	2X	22880	128.0	116	27.3	17	67	39 2.3
ASGROW 1XL5	2X	24490	80.5	73	20.5	28	64	36 4.3
DEKALB XL45 *	2X	23610	99.0	90	26.0	39	64	34 3.8
DEKALB XL66	2X	21120	128.0	116	26.5	10	64	43 2.2
DEKALB XL346	3X	22730	97.8	89	24.7	35	65	37 2.8
FUNK G4384	2X	17600	108.1	98	21.6	9	64	45 2.5
FUNK G4411	2X	20830	115.9	105	22.6	20	64	43 2.3
FUNK G4444	2X	21120	97.5	89	20.6	35	64	39 3.0
FUNK G4473	SP	20970	100.5	91	23.5	31	66	40 3.2
FUNK G4595	SP	19950	120.5	109	25.6	18	65	42 2.7
HOFMEYER 3X40	3X	21120	115.6	105	26.1	26	68	42 2.0
HOFMEYER SX50	2X	20970	136.0	124	26.9	47	70	44 2.2
MCNAIR X100 *	2X	22730	116.5	106	24.5	35	64	41 2.5
MCNAIR S140	SP	22730	111.4	101	22.8	57	68	43 3.0
MUNCY CHIEF SX770	2X	21850	113.2	103	23.5	40	69	44 2.8
MUNCY CHIEF SX880	2X	18630	100.3	91	22.8	31	68	43 3.8
NORTHRUP-KING PX50 *	2X	20970	119.3	108	24.2	43	63	40 2.5
NORTHRUP-KING PX610 *	3X	21270	122.1	111	24.4	39	66	40 2.7
NORTHRUP-KING PX616	SP	21120	111.2	101	22.8	24	69	44 2.5
PAG SX31	2X	23910	99.0	90	23.3	23	65	43 3.2
PAG SX52	2X	23760	99.0	90	21.0	15	63	37 4.0
PIONEER 3564	SP	20830	109.2	99	23.2	46	67	41 2.7
PIONEER 3570	SP	21850	120.5	109	23.0	50	67	39 3.2
SOUTHERN STATES 707EXP	2X	22150	105.6	96	23.1	14	64	37 3.3
TAYLOR-EVANS BONUSMAKER *	2X	21710	92.7	84	24.9	28	64	37 4.0
TAYLOR-EVANS BONUSMAKER S	2X	23030	109.5	100	24.0	15	67	41 3.0
TAYLOR-EVANS GROMASTER	4X	21120	99.4	90	20.4	32	67	40 3.2
TAYLOR-EVANS HARVESTMASTER	4X	20830	111.7	101	22.2	29	68	43 3.0
TAYLOR-EVANS 6807	2X	22880	111.6	101	21.4	21	65	40 2.5
TODD M55	2X	18630	104.9	95	18.8	27	65	43 3.3
TODD M60	2X	18480	68.5	62	20.7	39	63	37 4.2
TODD M70	2X	18630	114.8	104	27.6	24	66	41 1.8
TODD 616	4X	16570	103.3	94	23.0	46	65	42 3.0
TODD 635	4X	15400	103.5	94	25.7	53	69	46 2.5
TROJAN M114	3X	19360	122.0	111	22.7	39	68	43 3.0
TROJAN EXP2475	3X	20970	106.1	96	23.9	24	68	39 3.2
TROJAN EXP2650	2X	21120	130.1	118	25.6	8	69	43 2.2
GROUP AVERAGES		21100	108.7	99	23.5	30	66	41 3.0
			L.S.D. 15.0					
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW ASC95	2X	18330	104.5	95	21.8	50	70	46 2.8
ASGROW ATC106	3X	20090	98.2	89	21.8	21	73	44 3.2
ASGROW 1XL8	2X	20530	84.4	77	21.7	47	72	40 2.8
ASGROW 1XL9	2X	21850	126.9	115	24.3	44	71	44 1.7
DEKALB XL81A	2X	18330	128.4	117	21.7	58	69	43 3.0
FUNK G4644	2X	18040	124.7	113	25.1	17	69	43 1.5

FUNK G4697	SP	18920	114.8	104	24.2	17	70	43	2.8
FUNK G5757	4X	20530	115.5	105	26.7	8	71	45	2.2
HOFMEYER SX51	2X	20090	110.3	100	23.7	10	71	40	2.2
HOFMEYER H55	SP	18630	93.2	85	20.2	18	70	47	3.5
MCNAIR S190	SP	20090	103.6	94	20.1	43	69	46	3.2
MCNAIR 198	4X	9680	68.5	62	21.2	14	69	39	1.8
MCNAIR X202	2X	20530	118.2	107	21.4	54	70	42	2.3
MCNAIR X204	2X	19950	132.7	121	21.1	65	70	46	2.3
NJ CICA MS816	4X	19070	106.5	97	20.2	38	68	44	2.8
NJ CICA MS818	4X	19950	111.1	101	21.1	35	71	45	3.2
NJ CICA MS831	3X	19360	97.5	89	22.1	17	71	43	3.2
NORTHRUP-KING PX72	2X	20090	104.7	95	22.8	21	69	41	2.3
NORTHRUP-KING PX678	SP	20830	102.2	93	21.0	65	71	46	2.5
PAG SX29	2X	23470	126.2	115	21.6	57	73	44	2.7
PAG 308	3X	19360	104.6	95	21.1	36	65	40	2.3
PIONEER 3306	2X	20240	135.5	123	22.0	43	70	46	2.2
PIONEER 3308	3X	19360	128.1	116	22.5	77	71	45	1.8
PIONEER 3369A	2X	19950	138.1	125	22.6	68	69	44	1.5
PIONEER 3516	2X	20390	118.6	108	20.2	4	67	43	2.5
SOUTHERN STATES 720	SP	20090	101.3	92	21.8	14	69	41	3.2
SOUTHERN STATES 750	SP	22000	119.6	109	20.2	28	69	38	3.0
SOUTHERN STATES 820S	2X	18630	101.2	92	21.2	24	71	43	3.2
SOUTHERN STATES 840	4X	19360	112.7	102	22.5	29	71	46	2.7
SOUTHERN STATES 865	4X	19360	114.9	104	22.6	17	72	42	2.2
TAYLOR-EVANS CASHMAKER	2X	20970	104.5	95	22.8	4	69	42	2.8
TAYLOR-EVANS E20YA	4X	18630	112.5	102	22.1	28	69	43	2.2
TAYLOR-EVANS MINTMAKER	2X	20390	105.6	96	22.9	14	71	41	3.2
TODD M90	2X	18330	132.5	120	21.3	21	69	46	1.5
TODD 92A	2X	15690	90.4	82	19.9	47	69	43	2.3
TODD 875	4X	16430	77.3	70	19.5	21	69	42	3.3
TROJAN CF66	2X	18330	118.6	108	21.1	31	71	40	2.2
TROJAN CF105	2X	18920	117.6	107	22.5	54	72	41	1.7
TROJAN CF123	4X	19360	108.6	99	22.7	65	71	42	2.7
WATSON 401A	4X	19360	101.6	92	23.6	22	73	45	2.8
WATSON 430	SP	20090	116.7	106	23.6	28	73	46	2.3

GROUP AVERAGES 19360 110.6 100 22.0 34 70 43 2.5

L.S.D. 16.4

TESTED IN FULL SEASON MATURITY GROUP

MCNAIR 6905	4X	20240	138.9	126	24.9	14	72	44	1.7
PAG 492	4X	18770	109.3	99	25.2	6	75	46	2.5
VA P3T3	SP	19360	105.5	96	25.3	14	74	51	2.5
WATSON 199	SP	19650	123.0	112	23.6	28	72	43	1.7

GROUP AVERAGES 19510 119.2 108 24.7 16 73 46 2.1

L.S.D. 25.9

EXPERIMENT AVERAGES 20180 110.1 100 22.9 31 68 42 2.7

L.S.D. 16.2

COOPERATOR: H. M. CAMPER, JR., EASTERN VA. RESEARCH STATION, WARSAW, VA.

DATE PLANTED: MAY 1. DATES HARVESTED: EARLY SHORT, SEPT. 5,  
EARLY REGULAR, SEPT. 11,  
MEDIUM, SEPT. 15-16,  
FULL SEASON, SEPT. 23.

PLOT SIZE: ONE ROW 30 FEET LONG, 36 INCHES BETWEEN ROWS. REPLICATIONS: 3.

FERTILIZER BEFORE PLANTING: 80-134-134 PER ACRE.

FERTILIZER SIDE-DRESSED: 70 LBS. N PER ACRE.

GROWING CONDITIONS: DROUTH WITH HIGH TEMPERATURES FROM JUNE 19 TO JULY 12.

HEAVY RAINS AND HIGH WINDS IN LATE AUGUST.

\* TESTED IN SHORT EARLY MATURITY GROUP

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

TWO-YEAR AVERAGES, 1968-69.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	FAP HT. IN.	QUAL- ITY
TESTED IN EARLY MATURITY GROUP								
ASGROW ASC61	2X 23320	113.0	95	20.3	56	66	39	3.3
ASGROW ATC79	3X 23390	118.5	99	21.8	66	69	40	2.5
ASGROW ASC91	2X 23140	131.7	111	25.1	57	70	40	1.8
DEKALB XL66	2X 22660	138.8	117	23.9	57	69	41	1.8
FUNK G4384	2X 17680	112.8	95	19.8	52	69	47	2.3
FUNK G4411	2X 20490	118.0	99	20.5	58	68	42	1.8
FUNK G4444	2X 20640	111.3	93	18.8	65	67	38	2.3
FUNK G4473	SP 20570	112.4	94	21.9	64	70	39	2.5
HOFMEYER 3X40	3X 21450	119.5	100	22.1	61	69	40	2.1
HOFMEYER SX50	2X 21380	133.8	112	24.6	71	72	45	2.0
MCNAIR S140	SP 22190	122.5	103	21.8	74	70	43	2.4
MUNCY CHIEF SX770	2X 21010	114.7	96	23.3	66	73	43	2.3
MUNCY CHIEF SX880	2X 19390	118.2	99	22.2	65	73	43	2.8
NORTHRUP-KING PX50 *	2X 21380	122.1	103	20.9	70	67	40	2.0
NORTHRUP-KING PX610 *	3X 21520	126.9	107	21.8	67	70	41	2.4
NORTHRUP-KING PX616	SP 21450	122.7	103	21.5	58	73	43	1.9
PIIONEER 3564	SP 21300	122.8	103	20.0	72	71	41	2.1
TAYLOR-EVANS BONUSMAKER *	2X 22950	112.5	94	21.1	66	67	36	3.1
TAYLOR-EVANS BONUSMAKER S	2X 23610	117.6	99	22.9	55	70	40	2.4
TAYLOR-EVANS GROMASTER	4X 21380	105.6	89	19.2	65	70	41	2.7
TAYLOR-EVANS HARVESTMASTER	4X 22510	110.6	93	20.4	67	71	41	2.6
GROUP AVERAGES	21590	119.3	100	21.6	63	70	41	2.3
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW ASC95	2X 19050	117.3	99	22.8	75	74	47	2.2
ASGROW ATC106	3X 20130	111.9	94	22.9	58	75	45	2.4
FUNK G4644	2X 17900	117.2	98	24.4	56	73	47	1.6
FUNK G4697	SP 19540	115.8	97	23.4	58	74	45	2.4
FUNK G5757	4X 20350	119.2	100	26.1	52	74	46	1.9
HOFMEYER H55	SP 17310	105.6	89	20.5	55	73	46	2.5
MCNAIR X202	2X 19140	122.2	103	22.4	75	74	44	1.8
NJ CICA MS816	4X 18340	115.2	97	21.3	67	72	44	2.0
NJ CICA MS818	4X 18850	127.4	107	21.4	63	74	47	2.2
NORTHRUP-KING PX72	2X 20800	111.9	94	23.0	59	72	43	2.0
PIIONEER 3306	2X 21010	141.2	119	22.4	71	74	47	1.8
PIIONEER 3308	3X 19760	133.2	112	22.7	88	74	46	1.7
PIIONEER 3369A	2X 22070	143.2	120	23.0	82	73	47	1.5
SOUTHERN STATES 720	SP 20530	117.5	99	21.3	50	72	43	2.7
SOUTHERN STATES 820S	2X 18190	113.2	95	21.2	59	74	45	2.6
TAYLOR-EVANS CASHMAKER	2X 22520	115.5	97	22.2	50	72	42	2.3
TAYLOR-EVANS E20YA	4X 19330	118.5	100	21.5	60	73	43	1.9
TAYLOR-EVANS MINTMAKER	2X 21080	117.3	99	22.4	54	74	43	2.6
TODD 875	4X 18290	87.5	74	19.8	59	73	42	2.9

TROJAN CF66	2X	18040	127.9	107	22.3	64	74	43	1.7
<u>TROJAN CF105</u>	2X	19540	121.7	102	23.3	78	75	42	1.5
<u>TROJAN CF123</u>	4X	19760	112.7	95	22.8	82	75	46	2.3
WATSON 401A	4X	19560	119.9	101	23.5	59	75	45	2.3
GROUP AVERAGES		19610	118.8	100	22.5	64	74	45	2.1
EXPERIMENT AVERAGES		20560	119.1	100	22.1	64	72	43	2.2

THREE-YEAR AVERAGES, 1967-68-69

		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									
HOFMEYER 3X40	3X	22370	116.9	95	22.6	66	72	38	2.3
<u>MUNCY CHIEF SX770</u>	2X	19880	122.5	100	24.1	72	76	42	1.9
<u>MUNCY CHIEF SX880</u>	2X	18850	123.7	101	23.4	73	76	43	2.2
NORTHRUP-KING PX50 *	2X	22270	121.4	99	21.5	75	71	38	2.0
NORTHRUP-KING PX610 *	3X	21610	130.2	106	22.3	66	73	40	2.3
NORTHRUP-KING PX616	SP	21650	126.5	103	22.4	66	76	42	2.0
TAYLOR-EVANS BONUSMAKER *	2X	22650	112.4	92	22.4	68	71	35	2.9
TAYLOR-EVANS GROMASTER	4X	21160	108.3	88	21.3	70	74	39	2.7
GROUP AVERAGES		21300	120.2	98	22.5	69	74	40	2.3
TESTED IN MID-SEASON MATURITY GROUP									
ASGROW ASC95	2X	18660	120.5	98	23.9	77	77	46	2.0
ASGROW ATC106	3X	19380	120.7	98	24.4	69	78	45	2.1
FUNK G4644	2X	18740	126.0	103	27.0	69	76	46	1.5
FUNK G4697	SP	19750	123.7	101	25.5	68	77	44	2.1
FUNK G5757	4X	19980	122.8	100	27.9	63	77	46	1.7
HOFMEYER H55	SP	17500	110.9	90	23.2	67	77	45	2.0
<u>MCNAIR X202</u>	2X	18140	124.9	102	24.3	79	77	43	1.6
<u>PIONEER 3306</u>	2X	21090	145.8	119	24.2	80	77	46	1.8
SOUTHERN STATES 720	SP	20500	125.9	103	23.1	61	76	42	2.5
SOUTHERN STATES 820S	2X	18720	117.1	95	23.1	66	76	45	2.3
TAYLOR-EVANS CASHMAKER	2X	23260	129.1	105	23.7	63	75	40	2.1
TAYLOR-EVANS E20YA	4X	18800	124.3	101	23.1	63	76	43	1.9
TAYLOR-EVANS MINTMAKER	2X	21320	123.4	101	24.0	59	77	42	2.3
TODD 875	4X	18250	99.4	81	23.0	68	76	43	2.5
<u>TROJAN CF66</u>	2X	17400	131.9	107	24.0	73	77	41	1.7
<u>TROJAN CF105</u>	2X	18950	135.3	110	24.7	83	78	44	1.4
<u>TROJAN CF123</u>	4X	19090	123.2	100	24.2	84	78	47	2.0
GROUP AVERAGES		19380	123.8	101	24.3	70	77	44	2.0
EXPERIMENT AVERAGES		20000	122.7	100	23.7	70	76	43	2.1

TABLE 6. CORN PERFORMANCE, PETERSBURG, VIRGINIA, 1969.

	PLANTS /ACRE	YIELD BU/A	RFLA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW ASX58 *	2X 23030	91.9	119	17.2	78	69	31
ASGROW ASC61	2X 22440	65.0	84	19.6	84	70	29
ASGROW ATC79	3X 21560	64.2	83	19.8	88	72	32
ASGROW ASC91	2X 21850	79.8	103	21.8	83	72	34
DEKALB XL45 *	2X 21410	64.4	83	18.7	82	71	25
DEKALB XL66	2X 20530	72.3	93	20.5	75	71	33
FUNK G4473	SP 20090	82.3	106	17.6	88	72	31
FUNK G4595	SP 18920	66.2	86	19.4	89	71	33
HOFMEYER SX40	2X 19950	77.0	100	19.1	77	71	29
HOFMEYER 3X40	3X 20680	64.1	83	21.7	67	73	31
MCNAIR X100 *	2X 21560	70.5	91	17.0	76	71	31
MCNAIR S140	SP 23170	77.9	101	17.3	91	72	40
MUNCY CHIEF SX770	2X 21710	73.6	95	18.3	82	75	36
MUNCY CHIEF SX880	2X 18630	66.1	85	18.8	69	74	36
NORTHRUP-KING PX50 *	2X 20240	80.0	103	17.3	82	70	34
NORTHRUP-KING PX610 *	3X 20240	82.4	107	18.5	75	73	36
NORTHRUP-KING PX616	SP 20090	71.7	93	19.6	75	74	36
SOUTHERN STATES 707EXP	2X 22000	69.1	89	20.6	80	71	30
TAYLOR-EVANS BONUSMAKER *	2X 21270	71.0	92	17.2	73	69	30
TAYLOR-EVANS BONUSMAKER S	2X 22440	74.4	96	20.1	78	72	32
TAYLOR-EVANS GROMASTER	4X 20390	50.9	66	19.0	87	74	33
TAYLOR-EVANS PROFITMAKER	2X 19360	33.9	44	16.5	72	71	28
TAYLOR-EVANS 6807	2X 21850	73.1	95	16.6	83	70	33
TODD M70	2X 18190	70.3	91	21.4	90	70	32
TODD 616	4X 16430	54.4	70	19.5	80	71	36
TODD 635	4X 15250	85.2	110	19.6	84	72	43
TROJAN EXP2650	2X 19070	75.8	98	20.0	88	73	35
GROUP AVERAGES	20460	70.6	91	19.0	81	72	33
		L.S.D. 20.0					
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW ASC95	2X 18480	79.6	103	18.3	80	73	41
ASGROW ATC106	3X 19950	73.9	96	22.4	65	74	44
ASGROW 1XL8	2X 21850	75.9	98	19.2	89	74	35
ASGROW 1XL9	2X 22440	82.7	107	23.5	93	75	39
DEKALB XL81A	2X 19360	79.9	103	24.4	97	73	42
DEKALB XL385	3X 18630	83.1	108	20.9	89	74	48
FUNK G4644	2X 17890	84.4	109	23.0	75	72	44
FUNK G4697	SP 19950	75.0	97	23.4	67	75	43
FUNK G5757	4X 20240	85.4	110	26.3	59	74	38
HOFMEYER SX51	2X 20240	87.4	113	22.1	64	72	45
HOFMEYER H55	SP 18040	65.1	84	21.4	78	74	38
MCNAIR S190	SP 20240	80.5	104	19.2	70	74	41

MCNAIR 198	4X 18040	62.2	80	18.8	85	74	
MCNAIR X202	2X 19360	67.6	87	20.0	82	74	38
MCNAIR X204	2X 19210	98.4	127	20.2	65	74	42
MUNCY CHIEF 780	4X 18770	77.7	101	18.6	70	73	40
MUNCY CHIEF 802	4X 18920	73.5	95	18.5	74	75	44
NORTHRUP-KING PX72	2X 20680	67.6	87	20.7	90	73	36
<u>NORTHRUP-KING PX678</u>	SP 20830	81.9	106	18.1	87	74	45
PIONEER 3306	2X 20240	97.6	126	22.3	75	74	45
PIONEER 3308	3X 18040	86.9	112	21.3	76	72	44
<u>PIONEER 3369</u>	2X 17600	81.7	106	18.8	78	73	35
PIONEER 3369A	2X 20090	108.7	141	21.6	75	73	42
SOUTHERN STATES 720	SP 18770	77.7	101	18.4	73	72	37
<u>SOUTHERN STATES 750</u>	SP 24350	95.8	124	17.6	84	72	38
SOUTHERN STATES 860	4X 17890	80.5	104	18.6	62	74	43
SOUTHERN STATES 865	4X 19360	78.4	101	20.9	64	75	40
TAYLOR-EVANS CASHMAKER	2X 22440	86.7	112	21.7	73	73	35
<u>TAYLOR-EVANS E20YA</u>	4X 18770	79.1	102	21.0	82	71	38
TAYLOR-EVANS MINTMAKER	2X 20830	80.0	103	19.0	76	73	39
TODD 90	2X 18480	99.2	128	21.7	73	73	46
TODD 92A	2X 15400	76.0	98	17.0	69	73	42
TROJAN CF66	2X 18480	74.7	97	21.0	67	73	39
<u>TROJAN CF105</u>	2X 19360	92.8	120	20.6	93	74	40
TROJAN CF123	4X 19360	69.7	90	20.0	70	74	43
<u>TROJAN TX115</u>	3X 19360	81.6	106	22.4	87	73	34
<u>TROJAN TXS115</u>	2X 19360	75.7	98	21.2	93	73	40
WATSON 401A	4X 19210	80.5	104	23.0	76	73	43
WATSON 428	SP 19210	88.4	114	23.2	75	75	43
<u>WATSON 430</u>	SP 19360	84.7	110	21.9	82	74	42
GROUP AVERAGES	19480	81.5	105	20.8	77	74	41
	L.S.D.	14.8					
TESTED IN FULL SEASON MATURITY GROUP							
<u>MCNAIR 6905</u>	4X 18330	99.6	129	23.0	93	76	37
PIONEER 3191	3X 19070	84.8	110	26.6	77	76	39
SOUTHERN STATES 866	4X 16720	71.8	93	24.2	62	74	39
VPI 648	4X 19360	76.7	99	23.0	70	74	42
WATSON 199	SP 19360	75.2	97	26.7	78	76	39
GROUP AVERAGES	18500	79.6	103	24.7	79	75	38
	L.S.D.	28.9					
EXPERIMENT AVERAGES	19760	77.3	100	20.5	79	73	38
	L.S.D.	17.8					

### PETERSBURG

M. T. CARTER, VIRGINIA STATE COLLEGE, PETERSBURG, VA.

DATE PLANTED: MAY 3-5. DATES HARVESTED: ALL MATURITIES: SEPT. 24-27.

PLOT SIZE: 1 ROW 30 FEET LONG, 36 INCHES BETWEEN ROWS. REPLICATIONS: 3.

FERTILIZER BEFORE PLANTING: 80-80-80.

FERTILIZER AFTER PLANTING: 32 LBS. N SIDE-DRESSED.

GROWING CONDITIONS: DRY UNTIL MID-JULY, THEN QUITE WET THROUGH AUGUST.

MOST OF THE LODGING WAS ROOT LODGING.

\* TESTED AS SHORT EARLY HYBRIDS

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

TWO-YEAR AVERAGES, 1968-69

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP							
ASGROW ATC79	3X 22140	65.6	91	21.1	93	73	29
ASGROW ASC91	2X 22890	71.3	99	22.2	91	72	31
HOFMEYER SX40	2X 20390	66.3	92	22.7	88	72	29
HOFMEYER 3X40	3X 20690	65.7	91	21.0	82	72	29
MCNAIR S140	SP 21540	69.6	96	20.1	93	72	36
MUNCY CHIEF SX770	2X 20530	69.0	96	19.7	90	75	33
MUNCY CHIEF SX880	2X 19530	64.1	89	20.8	85	74	34
NORTHRUP-KING PX50 *	2X 20740	70.9	98	17.9	90	72	29
NORTHRUP-KING PX610 *	3X 20680	74.1	103	18.2	86	73	33
NORTHRUP-KING PX616	SP 20600	76.2	106	21.1	87	76	35
TAYLOR-EVANS BONUSMAKER *	2X 22730	76.3	106	18.7	87	71	28
TAYLOR-EVANS BONUSMAKER S	2X 23120	68.9	95	21.9	89	73	28
TAYLOR-EVANS GROMASTER	4X 20810	50.3	70	20.0	92	74	30
GROUP AVERAGES	21260	68.3	95	20.4	89	73	31
TESTED IN MID-SEASON MATURITY GROUP							
ASGROW ASC95	2X 19060	74.4	103	22.2	90	74	40
ASGROW ATC106	3X 19850	70.2	97	23.3	83	75	41
FUNK G4644	2X 17480	75.3	104	24.1	87	73	38
FUNK G4697	SP 20260	69.1	96	24.8	83	75	37
FUNK G5757	4X 19940	77.4	107	26.5	79	74	34
MCNAIR X202	2X 18560	66.3	92	23.7	89	75	32
MUNCY CHIEF 802	4X 19410	71.0	98	21.5	86	75	39
NORTHRUP-KING PX72	2X 21300	68.4	95	22.2	95	73	32
PIONEER 3306	2X 20680	87.0	120	24.0	88	75	40
PIONEER 3308	3X 19240	75.1	104	23.5	87	74	40
PIONEER 3369	2X 17340	80.7	112	19.7	88	73	33
PIONEER 3369A	2X 21470	90.6	125	23.0	88	73	40
SOUTHERN STATES 720	SP 19740	70.9	98	20.1	84	74	37
SOUTHERN STATES 860	4X 18960	75.0	104	22.0	81	76	42
TAYLOR-EVANS CASHMAKER	2X 23460	74.5	103	22.3	84	73	32
TAYLOR-EVANS E20YA	4X 19400	71.5	99	22.8	91	73	37
TAYLOR-EVANS MINTMAKER	2X 21170	73.9	102	21.4	87	74	37
TODD 92A	2X 16510	71.5	99	20.0	84	74	39
TROJAN CF105	2X 19700	83.4	115	22.3	95	75	36
TROJAN CF123	4X 19830	69.4	96	22.5	85	75	37
WATSON 401A	4X 19890	75.6	105	25.3	87	75	39
GROUP AVERAGES	19680	74.8	104	22.7	87	74	37

TESTED IN FULL SEASON MATURITY GROUP

MCNAIR 6868	SP 17560	65.8	91	27.8	97	78	36
SOUTHERN STATES 866	4X 17170	70.8	98	24.7	81	75	40
VPI 648	4X 19830	74.5	103	25.0	82	75	39
<u>WATSON 199</u>	SP 19700	73.6	102	28.8	89	78	40
GROUP AVERAGES	18560	71.2	99	26.6	87	76	39
EXPERIMENT AVERAGES	20100	72.2	100	22.4	88	74	35

THREE-YEAR AVERAGES, 1967-68-69

PLANTS /ACRE	YIFLD BU/A	RELA-TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.
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TESTED IN EARLY MATURITY GROUP

MUNCY CHIEF SX770	2X 18480	70.3	96	21.7	90	74	31
MUNCY CHIEF SX880	2X 18130	67.3	92	23.1	85	73	34
NORTHRUP-KING PX50 *	2X 21180	67.3	92	20.6	91	71	29
NORTHRUP-KING PX610 *	3X 19570	68.3	93	20.2	88	72	31
<u>NORTHRUP-KING PX616</u>	SP 20500	78.0	106	21.7	88	73	33
TAYLOR-EVANS BONUSMAKER *	2X 21700	71.5	97	20.5	89	70	28
TAYLOR-EVANS GROMASTER	4X 19980	52.7	72	22.7	91	72	30
GROUP AVERAGES	19930	67.9	92	21.5	89	72	31

TESTED IN MID-SEASON MATURITY GROUP

<u>ASGROW ASC95</u>	2X 17050	73.9	101	24.1	91	72	37
ASGROW ATC106	3X 18390	72.8	99	25.7	86	74	39
<u>FUNK G4644</u>	2X 18160	80.0	109	25.5	89	72	36
<u>FUNK G4697</u>	SP 19420	69.9	95	28.5	86	73	36
FUNK G5757	4X 19740	81.3	111	28.6	82	73	35
MCNAIR X202	2X 16580	64.4	88	25.1	90	73	32
MUNCY CHIEF 802	4X 18490	67.8	92	22.3	87	74	38
<u>PIONEER 3306</u>	2X 19880	79.3	108	25.4	90	75	36
<u>PIONEER 3369</u>	2X 15770	79.5	108	21.7	89	72	32
SOUTHERN STATES 860	4X 18920	75.0	102	24.3	81	74	40
TAYLOR-EVANS CASHMAKER	2X 22540	78.0	106	24.3	85	72	31
<u>TAYLOR-EVANS F20YA</u>	4X 18220	77.2	105	24.1	89	72	37
<u>TAYLOR-EVANS MINTMAKER</u>	2X 20300	77.9	106	22.5	89	72	35
<u>TODD 92A</u>	2X 15750	66.8	91	20.5	86	74	35
<u>TROJAN CF105</u>	2X 19050	83.4	113	25.3	94	74	36
<u>WATSON 401A</u>	4X 18730	80.6	110	27.1	88	74	38
GROUP AVERAGES	18560	75.5	103	24.7	88	73	36

TESTED IN FULL SEASON MATURITY GROUP

SOUTHERN STATES 866	4X 17270	72.3	98	27.1	84	75	38
VPI 648	4X 19130	76.0	103	27.2	82	75	38
<u>WATSON 199</u>	SP 19810	80.5	109	29.4	88	76	40
GROUP AVERAGES	18740	76.2	104	27.9	85	75	39
EXPERIMENT AVERAGES	18950	73.5	100	24.2	88	73	35



TABLE 8. CORN PERFORMANCE, ORANGE, VIRGINIA, 1969.

	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 ASX58 *	2X	24290	125.9	101	15.2	96	73	40 1.0
ASGROW ASC61	2X	22180	117.0	94	15.9	92	76	40 2.7
ASGROW ATC79	3X	22180	131.0	106	16.3	94	75	44 1.0
ASGROW ASC91	2X	22180	132.3	107	16.9	90	75	42 1.0
DEKALB XL45 *	2X	23230	119.0	96	16.3	96	74	42 1.0
DEKALB XL66	2X	21120	148.6	120	16.8	93	75	44 1.0
FUNK G4473	SP	21120	103.9	84	16.2	97	75	46 1.3
FUNK G4595	SP	20590	136.8	110	17.8	97	73	46 1.0
HOFMEYER 3X40	3X	21120	127.2	102	19.3	97	77	42 1.0
HOFMEYER SX50	2X	21120	144.4	116	19.3	100	78	44 1.0
MCNAIR X100 *	2X	23060	132.2	107	15.2	98	74	42 1.0
MCNAIR S140	SP	23230	138.2	111	15.8	85	75	44 1.7
MUNCY CHIEF SX550	2X	22180	100.3	81	16.2	94	76	44 2.3
MUNCY CHIEF SX770	2X	22180	122.0	98	16.2	98	78	46 2.0
MUNCY CHIEF SX880	2X	18480	98.4	79	16.1	97	76	46 2.7
NORTHRUP-KING PX50 *	2X	21120	113.2	91	15.2	97	73	40 1.0
NORTHRUP-KING PX610 *	3X	21120	122.4	99	15.4	92	74	44 1.0
NORTHRUP-KING PX616	SP	21120	127.0	102	16.2	91	78	45 1.0
PIONEER 3570 *	2X	24290	140.1	113	15.8	99	76	44 1.0
PIONEER 3571 *		24110	141.4	114	15.8	99	76	46 1.0
SOUTHERN STATES 707EXP	2X	22180	110.5	89	16.5	95	75	40 1.0
TAYLOR-EVANS BONUSMAKER *	2X	22880	94.6	76	16.3	97	74	42 3.7
TAYLOR-EVANS BONUSMAKER S	2X	23230	129.5	104	16.7	96	76	40 1.3
TAYLOR-EVANS GROMASTER	4X	21120	111.2	90	15.5	94	75	40 1.0
TAYLOR-EVANS HARVESTMASTER	4X	21820	113.8	92	15.9	92	77	46 2.0
TAYLOR-EVANS 6807	2X	23230	121.3	98	15.3	92	73	42 1.0
TROJAN 2475EXP	3X	21120	113.1	91	16.7	97	76	44 1.0
GROUP AVERAGES		22060	122.8	99	16.3	95	75	43 1.4
			L.S.D. 19.8					
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW ASC95	2X	18480	122.2	98	16.0	98	78	50 1.3
ASGROW ATC106	3X	20590	118.0	95	16.3	93	80	48 1.3
ASGROW A110	4X	18480	111.2	90	16.0	90	77	48 1.3
ASGROW 1XL9	2X	21650	133.3	107	19.4	93	80	50 1.0
DEKALB XL81A	2X	19180	134.6	108	16.4	94	77	54 1.7
DEKALB 805A	2X	15310	134.3	108	15.9	95	76	50 1.0
FUNK G4644	2X	18480	129.6	104	16.9	99	77	52 1.3
FUNK G4697	SP	20590	127.8	103	16.6	92	79	48 2.0
FUNK G5757	4X	20590	141.7	114	17.0	97	78	48 1.0
HOFMEYER SX51	2X	20060	127.7	103	16.5	99	79	50 1.0
MCNAIR S190	SP	20590	128.9	104	15.3	86	76	48 1.3
MCNAIR 198	4X	15840	95.4	77	15.4	98	77	50 1.0
MCNAIR X202	2X	20590	136.3	110	16.0	98	79	52 1.0
MCNAIR X204	2X	20590	153.7	124	16.9	96	80	52 1.0
MUNCY CHIEF H722	4X	21650	87.2	70	15.7	88	77	46 2.3

MUNCY CHIEF H740	4X	18830	107.9	87	15.4	92	76	48	2.3
MUNCY CHIEF H780	4X	18480	101.7	82	15.1	90	78	50	3.0
NJCIA MS816	4X	19540	124.7	100	15.6	94	77	50	1.0
NJCIA MS818	4X	19540	137.7	111	16.2	95	79	58	1.0
NJCIA MSR31	3X	19540	117.7	95	15.6	93	78	48	1.0
NORTHRUP-KING PX72	2X	19360	129.0	104	15.6	94	76	48	1.0
NORTHRUP-KING PX678	SP	20590	122.9	99	15.3	96	79	50	1.3
PIONEER 325A	4X	19540	122.6	99	15.9	88	76	48	2.0
PIONEER 3369A	2X	19890	154.6	125	16.4	96	77	52	1.0
PIONEER 3516	2X	20590	140.5	113	15.5	93	73	52	1.0
SOUTHERN STATES 720	SP	20590	115.6	93	15.6	91	78	48	1.3
SOUTHERN STATES 750	SP	22530	147.1	118	15.9	95	77	50	1.3
SOUTHERN STATES 820S	2X	18480	122.3	99	15.5	89	77	54	2.0
SOUTHERN STATES 840	4X	19540	138.3	111	16.8	88	79	50	1.3
SOUTHERN STATES 865	4X	19540	113.5	91	16.5	95	83	50	1.3
TAYLOR-EVANS CASHMAKER	2X	22000	137.5	111	16.2	94	76	48	1.0
TAYLOR-EVANS E20YA	4X	19010	126.7	102	16.1	94	77	50	1.7
TAYLOR-EVANS MINTMAKER	2X	20420	121.8	98	16.0	90	78	50	1.0
THOMPSON 101A	4X	19540	133.9	108	16.7	89	78	50	1.3
THOMPSON 219	4X	19540	122.7	99	17.1	96	80	50	1.0
TODD M70	2X	18480	138.3	111	16.7	96	75	46	1.0
TODD M90	2X	18480	136.3	110	16.3	91	79	52	1.0
TODD 92A	2X	15310	97.1	78	15.0	94	78	47	1.3
TODD 616	4X	16370	100.7	81	15.7	90	74	52	1.7
TROJAN CF66	2X	18480	143.9	116	16.2	100	78	47	1.0
TROJAN CF105	2X	19540	130.2	105	16.1	95	79	52	1.0
TROJAN CF123	4X	19540	125.4	101	16.6	96	79	54	1.3
WHEELER 300	4X	19540	115.2	93	16.9	95	77	52	1.3

GROUP AVERAGES 19430 125.8 101 16.2 94 78 50 1.3  
L.S.D. 20.1

TESTED IN FULL SEASON MATURITY GROUP

DEKALB 1051	4X	20420	99.1	80	16.7	87	91	58	1.0
MCNAIR 6905	SP	20590	152.1	123	16.6	93	80	48	1.0
PIONEER 312A	4X	19540	116.5	94	16.0	85	81	50	1.3
PIONEER 323		19540	111.2	90	15.1	89	82	50	2.0
PIONEER 3306	2X	20060	145.5	117	15.7	93	80	50	1.0
PIONEER 3308	3X	19540	124.8	101	15.5	95	80	37	1.0
SOUTHERN STATES 860	4X	18480	118.8	96	15.3	90	81	52	1.0
SOUTHERN STATES 909E	4X	18480	122.2	98	15.4	90	85	60	1.3
VA P3T3	SP	19540	105.1	85	16.7	86	84	52	1.3
VPI 648	4X	19540	109.6	88	15.9	93	80	52	1.3

GROUP AVERAGES 19570 120.5 97 15.9 90 82 51 1.2  
L.S.D. 19.0

EXPERIMENT AVERAGES 20330 124.1 100 16.2 94 77 48 1.3  
L.S.D. 21.5

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

DATE PLANTED: MAY 2. DATES HARVESTED: EARLY, SEPT. 10,  
MEDIUM, SEPT. 16-17,  
FULL SEASON, SEPT. 21.

PLOT SIZE: 1 ROW 30 FEET LONG, 30 INCHES BETWEEN ROWS. REPLICATIONS: 3.

FERTILIZER BEFORE PLANTING: 160-80-80 PER ACRE.

FERTILIZER AFTER PLANTING: NONE.

GROWING CONDITIONS: DRY DURING MAY AND JUNE, EXCELLENT DURING JULY AND AUGUST.

\* TESTED AS SHORT EARLY HYBRIDS IN A GROUP

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

TWO-YEAR AVERAGES, 1968-69

	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 ASC61	2X 23210	127.9	98	20.1	54	73	40	2.5
ASGROW ATC79	3X 23210	138.9	106	18.9	60	74	44	1.1
ASGROW ASC91	2X 23210	140.2	107	20.5	58	74	40	1.0
DEKALB XL45 *	2X 23740	120.2	92	20.2	62	74	39	2.0
FUNK G4473	SP 20410	118.8	91	20.2	70	73	44	1.3
HOFMEYER 3X40	3X 21550	133.9	102	24.1	72	75	42	1.1
MCNAIR S140	SP 22600	147.4	113	19.3	62	74	43	1.5
MUNCY CHIEF SX550	2X 22070	116.9	89	18.8	60	73	41	2.0
MUNCY CHIEF SX770	2X 20940	130.5	100	19.7	76	76	44	1.5
MUNCY CHIEF SX880	2X 19090	110.8	85	20.6	52	76	47	2.5
NORTHRUP-KING PX50 *	2X 21550	126.4	96	17.7	70	72	39	1.1
NORTHRUP-KING PX610 *	3X 21550	120.5	92	18.1	51	73	42	1.1
NORTHRUP-KING PX616	SP 21550	134.4	103	18.9	55	76	45	1.0
TAYLOR-EVANS BONUSMAKER *	2X 23560	112.9	86	20.0	66	72	40	2.7
TAYLOR-EVANS BONUSMAKER S	2X 23740	137.0	105	21.4	70	74	39	1.2
TAYLOR-EVANS HARVESTMASTER	4X 23030	124.3	95	19.8	54	75	44	2.1
GROUP AVERAGES	22190	127.6	97	19.9	62	74	42	1.6
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW ASC95	2X 19090	135.0	103	19.6	63	77	52	1.3
ASGROW ATC106	3X 19770	128.5	98	19.4	72	78	48	1.3
ASGROW A110	4X 18710	126.7	97	19.4	64	77	46	1.5
FUNK G4644	2X 18330	138.2	105	19.7	55	77	50	1.3
FUNK G4697	SP 20150	132.5	101	20.7	57	77	48	1.5
FUNK G5757	4X 20150	138.1	105	21.9	60	77	46	1.1
MUNCY CHIEF H740	4X 19270	122.5	93	18.4	62	75	47	2.0
NORTHRUP-KING PX72	2X 20670	136.4	104	21.7	67	75	45	1.5
PIONEER 3369A	2X 21690	161.4	123	19.7	60	76	49	1.0
SOUTHERN STATES 820S	2X 18330	124.7	95	19.3	51	77	53	2.3
TAYLOR-EVANS CASHMAKER	2X 23120	135.8	104	19.9	50	75	44	1.8
TAYLOR-EVANS F20YA	4X 19350	134.3	102	20.2	57	77	50	1.8
TAYLOR-EVANS MINTMAKER	2X 21190	130.7	100	19.4	58	77	49	1.1
TROJAN CF66	2X 18330	155.1	118	19.8	68	77	46	1.0
TROJAN CF105	2X 19620	140.9	108	19.9	76	78	48	1.0
GROUP AVERAGES	19850	136.1	104	19.9	61	77	48	1.5
TESTED IN FULL SEASON MATURITY GROUP								
PIONEER 3306	2X 20640	144.1	110	19.3	56	78	49	2.1
PIONEER 3308	3X 19620	138.5	106	19.1	80	78	45	1.5
SOUTHERN STATES 860	4X 18330	116.6	89	19.0	53	80	53	2.3

SOUTHERN STATES 909E	4X	18330	126.6	97	19.9	65	83	58	2.0
VPI 648	4X	19620	110.3	84	19.3	53	79	51	2.0
GROUP AVERAGES		19310	127.2	97	19.3	61	80	51	2.0
EXPERIMENT AVERAGES		20810	131.1	100	19.8	62	76	46	1.6

THREE-YEAR AVERAGES, 1967-68-69

		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 ASC61	2X	23010	140.3	98	23.4	55	74	39	2.2
MUNCY CHIEF SX770	2X	19870	142.4	100	25.3	76	78	44	1.3
MUNCY CHIEF SX880	2X	18640	129.5	91	26.0	54	78	47	2.1
NORTHRUP-KING PX610 *	3X	21630	138.3	97	22.9	55	75	41	1.2
NORTHRUP-KING PX616	SP	21630	147.6	104	24.5	61	77	44	1.1
TAYLOR-EVANS BONUSMAKER *	2X	22970	125.5	88	23.1	66	73	41	2.4
GROUP AVERAGES		21290	137.3	96	24.2	61	76	42	1.7

TESTED IN MID-SEASON MATURITY GROUP

ASGROW ASC95	2X	18640	143.1	100	25.9	60	79	49	1.4
ASGROW ATC106	3X	18820	139.3	98	26.0	68	81	47	1.2
ASGROW A110	4X	18390	132.8	93	25.1	61	78	47	2.0
FUNK G4644	2X	18950	148.1	104	25.6	45	78	49	1.4
FUNK G4697	SP	20150	150.7	106	24.7	60	78	48	1.7
FUNK G5757	4X	20150	149.4	105	26.2	52	77	46	1.2
MUNCY CHIEF H740	4X	18760	129.6	91	24.4	63	76	45	1.8
SOUTHERN STATES 820S	2X	18950	136.8	96	24.6	44	78	52	2.3
TAYLOR-EVANS CASHMAKER	2X	23480	151.6	106	25.5	50	76	43	1.9
TAYLOR-EVANS MINTMAKER	2X	21390	148.1	104	24.9	53	77	47	1.2
TROJAN CF66	2X	18140	165.0	116	24.2	69	78	47	1.1
TROJAN CF105	2X	18990	156.6	110	25.8	75	79	48	1.0
GROUP AVERAGES		19570	145.9	102	25.2	58	78	48	1.5

TESTED IN FULL SEASON MATURITY GROUP

PIONEER 3306	2X	21020	160.8	113	25.0	64	79	49	1.9
SOUTHERN STATES 860	4X	18950	130.4	92	25.0	43	80	51	2.5
SOUTHERN STATES 909E	4X	18140	142.1	100	24.7	50	84	56	2.1
VPI 648	4X	19800	126.3	89	24.7	47	79	50	1.8
GROUP AVERAGES		19480	139.9	98	24.8	51	80	51	2.1
EXPERIMENT AVERAGES		20020	142.5	100	24.9	58	78	47	1.7

TABLE 10. CORN PERFORMANCE, CHARLOTTE COURT HOUSE, VIRGINIA, 1969.

	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 ASX58 *	2X 23030	109.3	97	21.9	81	63	35	1.3
ASGROW ASC61	2X 22440	99.3	88	21.7	86	64	32	2.8
ASGROW ATC79	3X 21410	118.2	105	22.9	88	64	38	1.7
ASGROW ASC91	2X 22880	133.7	118	24.8	88	64	37	1.5
DEKALB XL45 *	2X 22150	111.3	99	22.5	96	64	33	2.2
DEKALB XL65	2X 21270	117.6	104	24.8	92	66	37	1.5
FUNK G4473	SP 20970	104.1	92	22.6	91	65	36	2.3
FUNK G4595	SP 20390	128.9	114	24.1	94	64	39	2.0
HOFMEYER SX40 *	2X 23030	102.2	90	22.4	94	64	35	2.7
HOFMEYER 3X40	3X 19800	114.4	101	24.7	74	66	38	1.7
MCNAIR X100 *	2X 23470	110.4	98	22.7	89	64	36	1.5
MCNAIR S140	SP 22290	118.7	105	22.4	80	66	39	1.8
MUNCY CHIEF SX770	2X 21410	112.9	100	23.2	76	67	36	2.0
MUNCY CHIEF SX880	2X 17600	96.2	85	23.2	77	66	38	2.3
NORTHRUP-KING PX50 *	2X 20830	112.4	100	21.8	93	64	36	1.3
NORTHRUP-KING PX610 *	3X 19800	110.2	98	23.0	90	65	36	1.7
NORTHRUP-KING PX616	SP 19950	120.9	107	23.1	90	66	39	1.7
SOUTHERN STATES 707EXP	2X 22880	112.7	100	22.9	87	63	35	2.2
TAYLOR-EVANS BONUSMAKER *	2X 20970	96.8	86	22.3	89	63	34	2.7
TAYLOR-EVANS BONUSMAKER S	2X 22880	121.8	108	23.6	90	64	37	2.0
TAYLOR-EVANS GROMASTER	4X 20530	95.3	84	21.2	81	66	37	2.3
TAYLOR-EVANS HARVESTMASTER	4X 21410	107.6	95	22.0	88	65	39	2.0
TAYLOR-EVANS 6807	2X 20830	105.5	93	21.6	80	64	36	2.0
TROJAN M114	3X 19510	121.0	107	22.6	93	65	39	2.2
GROUP AVERAGES	21320	111.7	99	22.8	87	65	37	2.0
		L.S.D.	12.8					
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW ASC95	2X 18330	106.0	94	21.1	86	69	37	1.5
ASGROW ATC106	3X 19800	101.2	90	21.7	90	70	40	1.5
ASGROW 1XL8	2X 16870	85.7	76	21.2	86	69	33	1.8
ASGROW 1XL9	2X 20680	127.7	113	22.7	89	69	36	1.0
DEKALB XL81A	2X 18770	121.8	108	21.9	97	69	39	1.7
DEKALB XL85	2X 19210	119.7	106	21.0	91	67	41	1.5
DEKALB 805A	2X 15840	112.2	99	21.1	83	67	39	1.3
FUNK G4644	2X 18330	115.6	102	20.6	94	67	41	1.3
FUNK G4697	SP 17310	106.1	94	21.0	89	69	40	1.5
FUNK G5757	4X 19800	129.5	115	22.5	84	68	42	1.5
HOFMEYER SX51	2X 17310	112.8	100	21.1	90	68	38	1.3
HOFMEYER H55	SP 18630	108.6	96	21.1	79	68	36	1.5

MCNAIR S190	SP	18920	107.2	95	21.2	87	67	38	
MCNAIR 198	4X	14230	87.7	78	20.5	91	69	37	1.
MCNAIR X202	2X	19510	121.3	107	21.5	92	68	39	1.
MCNAIR X204	2X	18920	123.8	110	20.8	95	69	43	2.2
MUNCY CHIEF 780	4X	18190	93.9	83	21.3	86	67	41	2.5
MUNCY CHIEF 802	4X	18630	93.0	82	20.0	87	69	43	1.8
NORTHRUP-KING PX72	2X	18190	105.9	94	20.1	94	66	39	1.3
NORTHRUP-KING PX678	SP	19510	114.5	101	20.1	83	68	43	1.2
PIONEER 3306	2X	20090	132.2	117	20.7	99	68	39	1.3
PIONEER 3308	3X	17450	115.8	102	21.2	93	68	39	1.3
PIONEER 3369	2X	17750	120.3	106	20.2	94	66	36	1.5
PIONEER 3369A	2X	19800	141.8	126	21.1	99	68	41	1.0
SOUTHERN STATES 720	SP	20090	117.3	104	21.0	88	67	41	1.7
SOUTHERN STATES 750	SP	18480	112.5	100	20.3	87	67	39	1.7
SOUTHERN STATES 840	4X	19210	121.9	108	21.7	91	68	39	1.5
SOUTHERN STATES 865	4X	17750	119.2	106	21.1	91	70	39	1.5
TAYLOR-EVANS CASHMAKER	2X	20240	108.6	96	20.8	82	68	35	1.8
TAYLOR-EVANS E20YA	4X	18330	110.2	98	21.6	90	68	40	1.7
TAYLOR-EVANS MINTMAKER	2X	17890	104.4	92	21.2	84	69	36	1.7
TROJAN CF66	2X	18330	114.7	102	22.6	90	68	39	1.3
TROJAN CF105	2X	18920	113.6	101	21.7	90	69	37	1.2
TROJAN CF123	4X	18190	117.4	104	20.6	94	69	44	1.5

GROUP AVERAGES 18510 113.1 100 21.1 90 68 39 1.5  
L.S.D. 15.8

TESTED IN FULL SEASON MATURITY GROUP

HOFMEYER H601R	4X	17890	109.4	97	21.9	73	71	46	1.7
MCNAIR 6905		19210	139.5	123	22.7	95	69	42	1.3
PIONEER 3191	3X	18190	115.6	102	22.3	91	71	45	1.7
SOUTHERN STATES 866	4X	19070	126.4	112	21.7	87	69	44	1.3
VPT 648	4X	18330	100.0	89	21.1	74	69	45	1.8

GROUP AVERAGES 18540 118.2 105 21.9 84 70 44 1.6  
L.S.D. 16.6

EXPERIMENT AVERAGES 19590 113.0 100 21.8 88 67 39 1.7  
L.S.D. 14.9

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

DATE PLANTED: MAY 7. DATES HARVESTED: EARLY, SEPT. 29,

MEDIUM, OCTOBER 16,

FULL SEASON, OCTOBER 17.

PLOT SIZE: 1 ROW 30 FEET LONG, 36 INCHES BETWEEN ROWS. REPLICATIONS: 3.

FERTILIZER BEFORE PLANTING: 100-100-100 PER ACRE.

FERTILIZER SIDE-DRESSED: 75 LBS. N PER ACRE.

GROWING CONDITIONS: IRRIGATED WITH 2 INCHES OF WATER JULY 9-10 AND AGAIN  
WITH 2 INCHES OF WATER JULY 17-18.

SOIL QUITE DRY AT FIRST IRRIGATION.

\* TESTED AS A GROUP OF SHORT EARLY HYBRIDS

TABLE 11. TWO- AND THREE-YEAR AVERAGES, CHARLOTTE COURT HOUSE, VIRGINIA.

TWO-YEAR AVERAGES, 1968-69.

	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 ASC61	2X 23320	110.7	96	22.4	89	64	37	2.9
ASGROW ATC79	3X 22810	123.1	106	23.6	88	66	41	1.8
ASGROW ASC91	2X 23540	130.7	113	23.6	87	65	41	1.5
HOFMEYER SX40 *	2X 22600	105.0	91	23.5	90	64	40	2.7
HOFMEYER 3X40	3X 21260	118.2	102	26.4	84	66	43	2.0
MCNAIR S140	SP 22170	119.2	103	22.7	78	66	45	2.0
MUNCY CHIEF SX770	2X 20660	111.7	96	22.5	81	67	41	2.0
MUNCY CHIEF SX880	2X 18750	108.7	94	22.6	80	68	45	1.9
NORTHRUP-KING PX50 *	2X 21440	112.8	97	21.5	89	63	40	1.8
NORTHRUP-KING PX610 *	3X 20660	109.3	94	23.6	82	66	41	2.1
NORTHRUP-KING PX616	SP 20730	120.2	104	22.4	84	67	46	1.7
TAYLOR-EVANS BONUSMAKER *	2X 22450	104.6	90	22.5	91	63	38	2.7
TAYLOR-EVANS BONUSMAKER S	2X 23340	119.9	103	24.6	91	65	42	2.3
TAYLOR-EVANS GROMASTER	4X 21290	102.9	89	21.3	79	65	44	2.7
TAYLOR-EVANS HARVESTMASTER	4X 22810	116.0	100	23.4	85	66	46	2.3
GROUP AVERAGES	21850	114.2	99	23.1	85	65	42	2.2
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW ASC95	2X 19120	112.9	97	21.8	87	69	45	1.6
ASGROW ATC106	3X 20120	106.9	92	22.2	89	70	48	1.8
DEKALB XL85	2X 19820	120.3	104	22.1	86	68	49	1.6
HOFMEYER H55	SP 18190	108.8	94	21.5	75	69	47	1.6
MCNAIR X202	2X 18420	120.3	104	21.8	91	68	45	1.3
NORTHRUP-KING PX72	2X 19710	117.7	102	22.8	93	66	43	1.5
PIIONEER 3306	2X 20800	126.8	109	21.7	94	69	47	1.6
PIIONEER 3308	3X 18740	118.1	102	21.2	89	69	47	1.4
PIIONEER 3369A	2X 21870	146.7	127	21.7	92	69	48	1.1
SOUTHERN STATES 720	SP 20530	120.5	104	21.3	85	67	49	2.1
TAYLOR-EVANS CASHMAKER	2X 21680	120.5	104	21.4	86	67	42	1.8
TAYLOR-EVANS E20YA	4X 19250	112.5	97	21.8	84	67	46	2.0
TAYLOR-EVANS MINTMAKER	2X 19700	107.0	92	21.4	79	70	44	1.8
TROJAN CF105	2X 19540	115.4	100	22.3	89	70	45	1.5
TROJAN CF123	4X 19440	124.6	108	21.5	93	69	53	1.8
GROUP AVERAGES	19800	118.6	102	21.8	87	68	46	1.6

TESTED IN FULL SEASON MATURITY GROUP

HOFMEYER H601R	4X	17820	110.2	95	22.1	79	71	55	2.1
<u>SOUTHERN STATES 866</u>	4X	18410	117.7	102	21.9	83	70	52	2.0
VPI 648	4X	19380	102.6	89	21.9	75	69	52	2.1
GROUP AVERAGES		18540	110.1	95	22.0	79	70	53	2.1
EXPERIMENT AVERAGES		20620	115.8	100	22.4	86	67	45	1.9

THREE-YEAR AVERAGES, 1967-68-69

		PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	QUAL- ITY
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TESTED IN EARLY MATURITY GROUP

<u>ASGROW ATC79</u>	3X	22460	132.5	111	26.4	90	69	46	2.0
MUNCY CHIEF SX770	2X	20450	118.4	99	23.1	75	73	47	2.3
MUNCY CHIEF SX880	2X	19350	112.6	94	23.3	69	73	51	2.3
<u>NORTHRUP-KING PX50 *</u>	2X	22360	122.2	102	24.3	85	69	45	2.0
<u>NORTHRUP-KING PX610 *</u>	3X	20990	117.9	98	26.1	83	70	47	2.4
<u>NORTHRUP-KING PX616</u>	SP	21080	127.0	106	25.0	86	71	50	1.9
<u>TAYLOR-EVANS BONUSMAKER *</u>	2X	22180	116.3	97	23.4	81	68	41	2.8
TAYLOR-EVANS GROMASTER	4X	21100	109.2	91	23.0	78	70	48	2.8
GROUP AVERAGES		21250	119.5	100	24.3	81	70	47	2.3

TESTED IN MID-SEASON MATURITY GROUP

ASGROW ASC95	2X	18660	117.5	98	23.6	82	74	49	1.6
ASGROW ATC106	3X	19330	113.3	95	24.8	87	75	53	1.9
HOFMEYER H55	SP	17950	118.1	99	22.9	75	73	51	2.1
MCNAIR X202	2X	17660	122.6	102	23.3	81	73	48	1.3
<u>PIIONEER 3306</u>	2X	20590	133.8	112	24.6	91	74	54	1.6
<u>SOUTHERN STATES 720</u>	SP	20820	125.6	105	24.5	87	72	53	2.4
<u>TAYLOR-EVANS CASHMAKER</u>	2X	22480	133.5	111	25.5	89	72	47	1.8
TAYLOR-EVANS E20YA	4X	18700	118.1	99	24.3	85	71	51	2.4
TAYLOR-EVANS MINTMAKER	2X	20440	115.7	97	23.9	76	74	49	2.2
GROUP AVERAGES		19630	122.0	102	24.1	84	73	51	1.9

TESTED IN FULL SEASON MATURITY GROUP

SOUTHERN STATES 866	4X	18190	117.3	98	23.8	78	76	57	2.4
VPI 648	4X	19560	104.3	87	23.9	75	74	56	2.4
GROUP AVERAGES		18870	110.8	93	23.8	76	75	56	2.4
EXPERIMENT AVERAGES		20230	119.8	100	24.2	82	72	50	2.1



TABLE 12. CORN PERFORMANCE, BLACKSBURG, VIRGINIA, 1969.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	DAYS TO SILK	EAR HT. IN.	
TESTED IN EARLY MATURITY GROUP								
ASGROW ASX58 *	2X	24290	126.9	106	20.5	93	73	32
ASGROW ASC61	2X	22180	118.2	99	21.9	94	70	33
ASGROW ATC79	3X	22180	138.0	115	23.4	90	74	39
ASGROW ASC91	2X	22180	144.2	120	23.7	96	73	36
DEKALB XL45 *	2X	23230	110.2	92	21.9	95	71	31
FUNK G4473	SP	21120	113.7	95	22.8	91	73	36
FUNK G4595	SP	20590	135.9	113	23.8	92	72	33
HOFMEYER SX40 *	2X	23230	117.2	98	21.8	93	72	34
HOFMEYER 3X40	3X	21120	131.8	110	24.9	92	75	32
MCNAIR X100 *	2X	23230	127.2	106	19.4	93	71	34
MCNAIR S140	SP	23060	144.9	121	22.5	89	75	37
MUNCY CHIEF SX550	2X	22180	112.6	94	23.2	84	74	32
MUNCY CHIEF SX770	2X	22180	116.1	97	22.5	88	77	36
MUNCY CHIEF SX880	2X	18480	104.5	87	22.4	77	77	37
NORTHRUP-KING PX50 *	2X	21820	124.9	104	20.7	92	73	36
NORTHRUP-KING PX610 *	3X	21120	121.2	101	21.2	86	75	32
NORTHRUP-KING PX616	SP	21120	121.0	101	22.5	89	77	38
PARK 310	3X	17420	99.2	83	23.5	85	76	38
PARK X44	2X	17420	116.1	97	22.4	88	76	36
PARK 200A	4X	21120	99.4	83	22.5	81	75	33
SOUTHERN STATES 707EXP	2X	22180	114.2	95	22.7	92	71	34
STULL 704SX	2X	21120	122.1	102	22.6	91	72	37
STULL 707SX	2X	22880	149.2	124	24.3	92	74	34
STULL 720SX	2X	21120	135.6	113	23.9	93	77	40
TAYLOR-EVANS BONUSMAKER *	2X	20060	108.8	91	21.8	91	72	32
TAYLOR-EVANS BONUSMAKER S	2X	23230	141.8	118	24.2	87	74	37
TAYLOR-EVANS GROMASTER	4X	23230	123.8	103	21.1	91	76	36
TAYLOR-EVANS PROFITMAKER	2X	23230	64.7	54	19.8	80	71	28
TAYLOR-EVANS 6807	2X	23230	129.6	108	20.1	92	72	34
TROJAN TXS102	2X	21120	114.9	96	20.0	93	70	32
TROJAN TXS106	2X	23230	136.6	114	20.3	98	70	35
TROJAN TXS107	2X	22180	117.4	98	19.4	93	75	35
TROJAN CF40	2X	21120	132.2	110	24.0	87	74	39
GROUP AVERAGES		21730	121.6	101	22.2	90	74	35
			L.S.D. 14.9					
TESTED IN MID-SEASON MATURITY GROUP								
ASGROW ASC95	2X	18480	123.0	103	20.0	79	77	38
ASGROW ATC106	3X	20590	95.9	80	19.9	74	79	38
ASGROW 1XL9	2X	22180	119.3	100	22.3	87	79	41
DEKALB XL346	3X	23060	105.6	88	18.2	79	73	34
FUNK G4411	2X	21120	124.6	104	17.5	86	74	39
FUNK G4644	2X	18480	117.7	98	19.7	74	77	40
FUNK G4697	SP	20240	121.2	101	19.5	79	78	44
HOFMEYER SX51	2X	20420	122.7	102	19.9	87	76	40
MCNAIR S190	SP	20590	133.7	112	18.5	83	76	45
MCNAIR 198	4X	9500	86.9	73	18.9	89	76	40
MCNAIR X202	2X	20590	130.5	109	20.6	77	77	40
MCNAIR X204	2X	20420	147.7	123	19.2	91	79	46
MUNCY CHIEF 722	4X	20590	107.5	90	19.1	61	74	41



TABLE 13. TWO- AND THREE-YEAR AVERAGES, BLACKSBURG, VIRGINIA.

TWO-YEAR AVERAGES, 1968-69

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP						
ASGROW ASC61	2X 21710	116.8	98	24.1	95	32
ASGROW ATC79	3X 21980	127.4	106	26.2	94	37
ASGROW ASC91	2X 21440	134.9	113	24.8	98	36
HOFMEYER SX40 *	2X 21230	113.5	95	23.9	95	32
HOFMEYER 3X40	3X 20240	126.8	106	28.0	96	33
MCNAIR S140	SP 21070	131.0	109	26.2	92	40
MUNCY CHIEF SX550	2X 20770	109.0	91	24.2	91	31
MUNCY CHIEF SX770	2X 19830	121.2	101	24.2	92	36
MUNCY CHIEF SX880	2X 17240	116.1	97	24.8	84	41
NORTHRUP-KING PX50 *	2X 20260	117.7	98	24.4	94	35
NORTHRUP-KING PX610 *	3X 20040	115.3	96	22.7	91	34
NORTHRUP-KING PX616	SP 20110	121.8	102	23.5	91	39
TAYLOR-EVANS BONUSMAKER *	2X 20650	110.5	92	23.7	94	30
TAYLOR-EVANS BONUSMAKER S	2X 22440	127.2	106	27.0	93	35
TAYLOR-EVANS GROMASTER	4X 20690	116.9	98	22.4	94	36
TRJAN CF40	2X 20040	123.4	103	28.1	93	38
GROUP AVERAGES	20610	120.6	101	24.9	93	35
TESTED IN MID-SEASON MATURITY GROUP						
ASGROW ASC95	2X 18120	129.8	108	23.2	88	39
ASGROW ATC106	3X 18300	112.5	94	22.1	82	41
FUNK G4411	2X 19440	118.0	98	23.0	91	38
FUNK G4644	2X 17380	122.8	102	23.3	84	40
FUNK G4697	SP 19000	121.8	102	24.1	87	43
NJCIA MS816	4X 17770	121.5	101	22.2	88	41
NJCIA MS818	4X 17770	123.8	103	22.2	90	43
PIONEER 3369	2X 16780	128.0	107	20.6	95	38
SOUTHERN STATES 720	SP 19980	123.5	103	21.3	92	42
SOUTHERN STATES 820S	2X 17310	115.5	96	22.8	88	45
TAYLOR-EVANS CASHMAKER	2X 22280	137.0	114	22.6	93	37
TAYLOR-EVANS E20YA	4X 18290	116.5	97	22.3	85	42
TAYLOR-EVANS MINTMAKER	2X 19490	117.0	98	22.6	84	42
GROUP AVERAGES	18610	122.1	102	22.5	88	41
TESTED IN FULL SEASON MATURITY GROUP						
PIONEER 3306	2X 19170	118.0	98	21.1	87	43
SOUTHERN STATES 860	4X 17480	112.6	94	23.1	85	45
SOUTHERN STATES 909E	4X 17440	114.7	96	22.8	91	50
VPI 646	4X 17830	97.8	82	22.2	85	42
VPI 648	4X 18640	114.0	95	22.7	77	43
GROUP AVERAGES	18110	111.4	93	22.4	85	45
EXPERIMENT AVERAGES	19480	119.8	100	23.6	90	39

THREE-YEAR AVERAGES, 1967-68-69

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP						
<u>HOFMEYER SX40</u> *	2X 22220	107.7	100	22.2	95	31
MUNCY CHIEF SX550	2X 19580	102.7	96	24.8	93	31
MUNCY CHIEF SX770	2X 19130	106.4	99	24.6	92	35
MUNCY CHIEF SX880	2X 17410	100.7	94	29.6	84	39
<u>NORTHRUP-KING PX50</u> *	2X 20760	112.4	105	22.5	95	35
<u>NORTHRUP-KING PX610</u> *	3X 20670	108.5	101	20.8	93	34
<u>NORTHRUP-KING PX616</u>	SP 20710	109.2	102	24.3	92	39
TAYLOR-EVANS BONUSMAKER *	2X 21120	104.3	97	23.2	92	31
TAYLOR-EVANS GROMASTER	4X 20520	104.3	97	21.2	95	35
<u>TROJAN CF40</u>	2X 20620	115.0	107	25.8	93	36
GROUP AVERAGES	20270	107.1	100	23.9	93	35
TESTED IN MID-SEASON MATURITY GROUP						
<u>ASGROW ASC95</u>	2X 17990	115.9	108	24.9	88	39
ASGROW ATC106	3X 18110	100.3	94	27.6	83	40
FUNK G4644	2X 18310	108.9	102	25.2	75	38
FUNK G4697	SP 19340	104.9	98	28.8	86	43
<u>PIONEER 3369</u>	2X 17100	112.9	105	21.9	96	36
<u>SOUTHERN STATES 720</u>	SP 20040	113.9	106	21.6	92	38
<u>SOUTHERN STATES 820S</u>	2X 18310	105.3	98	26.2	89	42
<u>TAYLOR-EVANS CASHMAKER</u>	2X 22920	126.0	118	24.6	92	36
TAYLOR-EVANS F20YA	4X 17880	103.7	97	24.8	81	39
TAYLOR-EVANS MINTMAKER	2X 20250	107.7	100	23.2	82	39
GROUP AVERAGES	19020	110.0	103	24.9	86	39
TESTED IN FULL SEASON MATURITY GROUP						
PIONEER 3306	2X 20040	105.6	99	22.2	88	43
SOUTHERN STATES 860	4X 18340	106.1	99	26.7	83	45
SOUTHERN STATES 909E	4X 17550	101.2	94	28.9	91	50
VPI 646	4X 17810	92.2	86	24.7	84	38
VPI 648	4X 19150	103.3	96	27.0	75	41
GROUP AVERAGES	18580	101.7	95	25.9	84	43
EXPERIMENT AVERAGES	19430	107.2	100	24.7	89	38

TABLE 14. CORN PERFORMANCE, GLADE SPRING, 1969.

	PLANTS /ACRE	YIELD BU/A	RELA- TIVE YIELD	PCT WATER	PCT ERECT	EAR HT. IN.
TESTED IN EARLY MATURITY GROUP						
ASGROW ASX58 *	2X 22440	140.2	100	24.4	81	36
ASGROW ASC61	2X 23910	125.8	90	27.2	86	38
ASGROW ASC91	2X 23030	159.0	113	28.4	79	36
ASGROW IXL5	2X 22880	131.0	94	26.5	90	36
DEKALB XL45 *	2X 23170	132.7	95	28.1	93	30
MCNAIR X100 *	2X 20970	131.5	94	25.2	86	43
MCNAIR S140	SP 21850	153.8	110	26.3	80	44
MUNCY CHIEF SX550	2X 19950	121.6	87	26.7	85	36
MUNCY CHIEF SX660	2X 21850	117.9	84	26.3	83	36
MUNCY CHIEF SX770	2X 20970	141.1	101	26.5	84	46
MUNCY CHIEF SX880	2X 20830	135.5	97	29.2	79	42
<u>NORTHRUP-KING PX50 *</u>	2X 23470	140.4	100	26.1	91	42
<u>NORTHRUP-KING PX610 *</u>	3X 20240	137.2	98	23.7	91	34
<u>NORTHRUP-KING PX616</u>	SP 24050	148.0	106	26.7	85	38
STULL 704SX	2X 21270	130.3	93	27.5	88	40
STULL 707SX	2X 24200	148.3	106	28.3	78	40
STULL 720SX	2X 22880	167.5	120	28.3	83	46
TAYLOR-EVANS BONUSMAKER *	2X 19070	123.2	88	26.8	97	38
TAYLOR-EVANS BONUSMAKER S	2X 22440	136.2	97	29.3	90	36
TAYLOR-EVANS GROMASTER	4X 23610	136.0	97	26.4	77	40
<u>TAYLOR-EVANS HARVESTMASTER</u>	4X 21270	146.7	105	26.8	90	44
TAYLOR-EVANS 6807	2X 20390	147.3	105	23.9	74	38
GROUP AVERAGES	22030	138.7	99	26.8	85	39
TESTED IN MID-SEASON MATURITY GROUP						
<u>ASGROW ASC95</u>	2X 21710	154.8	110	21.0	85	40
<u>ASGROW A110</u>	4X 20090	124.1	89	19.3	77	40
<u>ASGROW IXL8</u>	2X 18630	113.8	81	21.7	83	38
DEKALB 805A	2X 20390	155.9	111	21.2	76	44
MCNAIR S190	SP 20680	132.0	94	18.5	66	46
MCNAIR 198	4X 10560	79.4	57	20.7	88	40
<u>MCNAIR X202</u>	2X 20680	162.2	116	20.3	84	44
<u>MCNAIR X204</u>	2X 20530	142.0	101	20.4	88	50
MUNCY CHIEF 720	4X 19210	160.1	114	19.5	79	34
MUNCY CHIEF 722	4X 18770	118.4	84	19.8	86	44
MUNCY CHIEF 780	4X 21560	121.3	87	19.8	57	42
NORTHRUP-KING PX72	2X 19800	131.4	94	19.1	86	42
NORTHRUP-KING PX678	SP 21410	139.4	99	20.0	82	52

