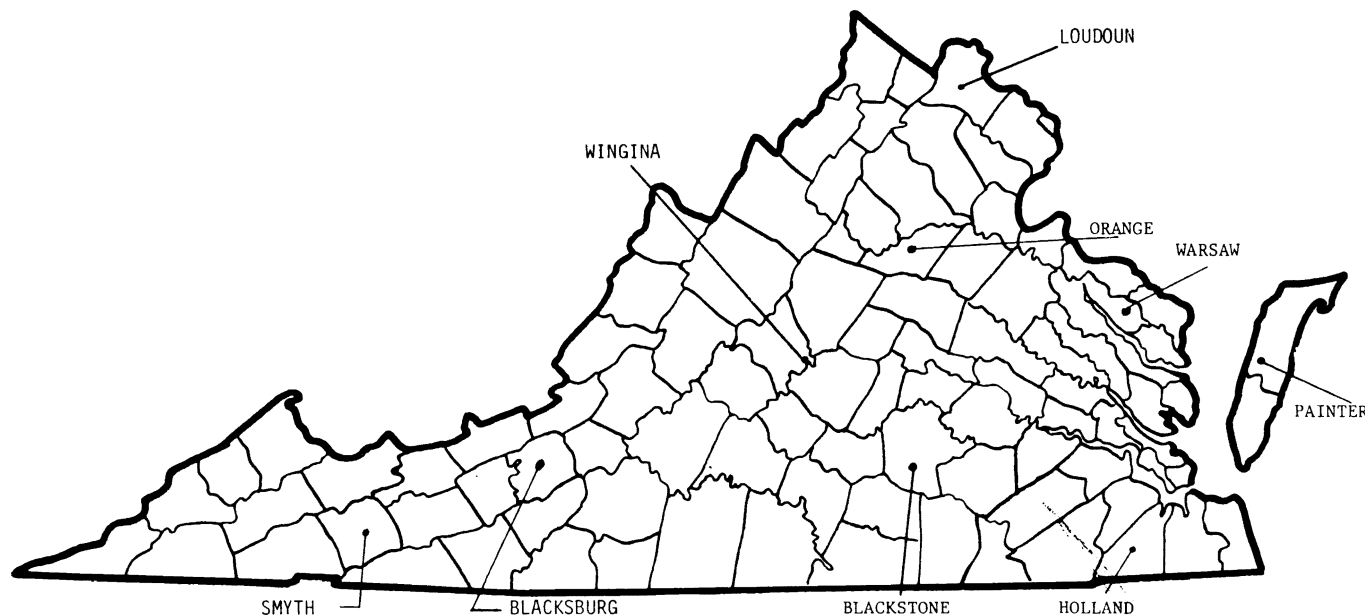


VIRGINIA

CORN PERFORMANCE TRIALS

IN 1980

LOCATIONS OF CORN HYBRIDS IN 1980



Research Division, Report 177 Department of Agronomy
Virginia Polytechnic Institute and State University
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DEC 19 1980

BLACKSBURG, VIRGINIA

The brand names and sources of seed of the commercial hybrids tested in the 1980 Virginia Corn Performance Trials are listed below.

<u>HYBRID OR BRAND NAME</u>	<u>SOURCE OR SEED</u>
ASGROW	Asgrow Seed Co., 7000 Portage Road, Kalamazoo, MI 49001
AUGUSTA	Rawley-Whitt Dairy & Seeds, Rt. 2, Box 26, Mt. Solon, VA 22843
BECK	Beck Hybrids, Atlanta, IN 46031
CLARK	Clark Seed Co., Inc., Kenton, DE 19955
COKER	Coker Pedigreed Seed Co., P.O. Box 340, Hartsville, SC 29950
DEKALB	DeKalb Ag Research, Inc., Sycamore Road, DeKalb, IL 60115
DENNIS	Dennis Hybrids, Box 487, Windfall, Indiana 46706
FUNK'S	Hoffman Seeds, Inc., Landisville, PA 17538
GOLDEN HARVEST	Columbiana Seed Company, Eldred, IL 62027
JACQUES	Jacques Seed Company, 720 St. Croix St., Prescott, WI 54021
KENWORTHY	Kenworthy Seed Co., 240 Lafayette St., Greenfield, OH 45123
LONGEST	G. M. Longest, Box 45, St. Stephens Church, VA 23148
MASTER FARMER	Farmer Seeds, Inc., P.O. Box 10, Carrollton, IL 62016
MCCURDY	McCurdy Seed Company, Freemont, Iowa 52561
MCNAIR	Northrup King Co., P.O. Drawer 889, Laurinburg, NC 28352
MIDSTATES	NJ Crop Improvement Coop. Assoc., Inc., Allentown, NJ 08501
MIGRO-NAPB	Migro-NAPB, P.O. Box 7, Mitchell, IN 47446
MUNCY CHIEF	Muncy Chief Hybrids, Market & High Sts., Muncy, PA 17756
NORTHRUP-KING	Northrup-King Co., P.O. Box 959, Minneapolis, MN 55440
O'S GOLD	O's Gold Seed Co., Ag. Res. Ctr., Box 460 Parkersburg, IA 50665
PAG	PAG Seeds, P.O. Box 9480, Dept. 16, Minneapolis, MN 55440
PENNEY	Maynard G. Penney, Rt. 1, Box 53-C, Bowling Green, VA 22427
PIONEER BRAND	Pioneer Hi-Bred Int., Inc., 1000 W. Jefferson St., Tipton, IN 46072
PRAIRIE STREAM	Prairie Stream Hybrids, Inc., RR 3, Frankfort, IN 46401
SOUTHERN STATES	Southern States Coop., Inc. P.O. 26234, Richmond, VA 23260
TAYLOR-EVANS	Taylor-Evans Seed Co., P.O. Box 68, Tulia, TX 79088
THOMPSON	G. C. Thompson & Son, Rt. 1, Box 10, Eagle Rock, VA 24085
THOR-O-BRED	Thor-O-Bred Seed Company of IL, P.O. Box 1437 Champaign, IL 61820
TODD	Todd Hybrid Corn Co., Inc., Box 158, Burlington, IN 46915
TROJAN	Pfizer Genetics Inc., 3339 W. Cary St., Richmond, VA 23221
USS AGRI-CHEMICALS	USS Agri-Chemicals, P.O. Box 1685, Atlanta, GA 30301
WATSON	Watson Seed Farms, Inc., Box 1099, Rocky Mount, NC 27801
YODER	Yoder Hybrid Corn Co., Box 205, Berlin, OH 44610

Trade and brand names are used only for the purpose of information and Virginia Tech does not guarantee nor warrant the standard of the product, nor does it imply approval of the product to the exclusion of others which may also be suitable.

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VIRGINIA CORN PERFORMANCE TRIALS IN 1980

Tests of commercial hybrids were planted at nine locations in Virginia in 1980. Climate conditions were generally good for early growth, however, moisture stresses from pre-flowering through grain filling significantly reduced yields at all locations except Loudoun, Blacksburg and Smyth. Supplemental irrigation at Blackstone prevented yield losses due to extremely dry weather. Because of severe drought stress at Painter, the plot was not harvested. The data reported for Painter are from the 1979 and 1978 tests.

Hybrids entered in the Virginia Corn Performance Trials were primarily those submitted by commercial companies, but a few hybrids of particular interest to professional workers in Virginia were also entered.

The locations at which a hybrid was tested were specified by the entering company. Plots were overplanted by 15 percent and thinned to the desired stand where possible at all locations. The desired populations for the tests were 24,000 plants per acre for the early maturity group and 22,000 for the medium and mid-full maturity groups. All locations had four replications of one row plots. One replication was dropped from the test at Blacksburg because of vandalism and also one replication from the Smyth test was dropped because of a weed problem.

Plots were planted and harvested by hand. Erect plants were recorded just prior to harvest. Ear height was measured to the top ear-bearing node. Yield was adjusted to 15.5% moisture. Relative yield is a percentage of the average yield for the test. A hybrid with a relative yield of 105 was thus 5% more productive than the average of that particular test. A relative yield of 90 was 10% less productive than the average of that particular test.

Below each maturity group yield average, the L.S.D. (.05) is given. This is the number of bushels by which two hybrid yields must be separated to be considered different (statistically). In addition, a plus sign beside the yield or harvest moisture indicates performance significantly above (greater than one standard deviation) the maturity group average. A minus sign indicates performance significantly below (less than one standard deviation) below the group average.

Virus trial - Several companies submitted hybrids for comparison under virus conditions. This test was grown in four replications at Wingina in an area containing virus-infected johnsongrass.

Cooperaters, plot sizes, fertilizer applications, cultural practices used, and growing conditions are given as footnotes to the various tables.

TABLE 1. AVERAGE RELATIVE PERFORMANCE OF HYBRIDS TESTED IN THREE OR MORE LOCATIONS IN 1980*

	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS		AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
<u>EARLY MATURITY</u>			<u>MID-FULL MATURITY</u>		
AUGUSTA A305	102	3	AUGUSTA A327	107	4
BECK 58X	83	4	BECK 88X	107	3
BECK 60X	107	5	BECK 89X	112	6
DEKALB XL32AA	99	7	BECK 92X	106	3
DEKALB XL57	94	7	COKER 16	99	7
JACQUES JX177	95	3	COKER 19	103	7
JACQUES JX179	110	3	COKER 19A	104	7
MIGRO-NAPB HP470	104	7	COKER 21	101	7
MUNCY CHIEF SX560	83	3	COKER 22	98	7
MUNCY CHIEF SX660	84	4	DEKALB XL70	114	7
MUNCY CHIEF SX662	86	4	DEKALB XL71	105	7
NORTHROP KING PX37	85	4	DENNIS DS39	119	3
NORTHROP KING PX39	91	4	FUNK'S G-4636	98	6
PIONEER BRAND 3535	92	6	FUNK'S G-4689	105	4
PIONEER BRAND 3572	91	7	JACQUES JX247	100	7
PIONEER BRAND 3591	78	5	KENWORTHY KL-X71	98	3
PRAIRIE STREAM SX44	85	3	MCCURDY 7440	116	3
PRAIRIE STREAM SX50	102	3	MCCURDY 7787	102	3
SOUTHERN STATES SS522	91	3	MCCURDY 84AA	109	3
SOUTHERN STATES SS570	86	7	MIDSTATES MS747A	104	3
TAYLOR-EVANS 6925	91	7	MIDSTATES MS775	108	3
THOR-O-BRED SX400	88	3	MIDSTATES MS900	102	3
THOR-O-BRED SX510	96	7	MIGRO-NAPB HP87	112	7
TODD M53	91	5	MIGRO-NAPB M-0707	111	7
TODD M5505	107	4	MIGRO-NAPB M-6666	89	7
TROJAN T1058	91	6	MIGRO-NAPB M-7072	100	7
Group Average	93		NORTHROP KING PX87	107	4
			PIONEER BRAND 3160	111	5
			PIONEER BRAND 3184	106	6
			PRAIRIE STREAM SX73	102	3
			SOUTHERN STATES SS727	103	5
			SOUTHERN STATES SS730	96	5
			SOUTHERN STATES SS775	89	6
			SOUTHERN STATES SS915	101	7
			TAYLOR-EVANS 6968	82	7
			TAYLOR-EVANS 6995	107	7
			TAYLOR-EVANS 6995-A	96	7
			THOMPSON 219A	94	3
			THOR-O-BRED SX600	110	7
			THOR-O-BRED SX650	98	7
			TODD M95	102	6
			TROJAN T1170	89	6
			TROJAN T1230	105	6
			Group Average	103	
<u>MEDIUM MATURITY</u>					
AUGUSTA A310	104	4			
BECK 65X	106	6			
BECK 75X	102	3			
BECK 77X	100	3			
DEKALB XL61	97	7			
DEKALB XL67	101	7			
DENNIS DS26	115	3			
DENNIS DS37	110	3			
DENNIS DS37A	107	3			
DENNIS DS47A	108	3			
FUNK'S G-4507A	106	5			
FUNK'S G-4606	101	6			
JACQUES JX180	113	4			
JACQUES JX187A	115	3			
JACQUES JX227	98	4			
KENWORTHY KL-X55	117	3			
KENWORTHY KL-X68LHO	108	3			
MIGRO-NAPB HP58	93	6			
MIGRO-NAPB M-0505	106	6			
MIGRO-NAPB SPX49	99	6			
MIGRO-NAPB SPX77	108	7			
MUNCY CHIEF SX776	106	6			
MUNCY CHIEF SX777	99	6			
NORTHROP KING PX74	110	3			
NORTHROP KING PX78	97	5			
PENNEY SP1	107	3			
PIONEER BRAND X7448	87	3			
PIONEER BRAND 3320	113	7			
PIONEER BRAND 3368A	103	3			
PIONEER BRAND 3369A	103	7			
PRAIRIE STREAM SX66	95	3			
SOUTHERN STATES SS698	81	4			
TAYLOR-EVANS 6945	88	7			
TAYLOR-EVANS 6992	89	7			
THOMPSON 221	96	3			
THOR-O-BRED SX544	92	7			
THOR-O-BRED SX545	102	7			
TODD MX73A	101	5			
TODD M88	101	3			
TROJAN TXS115A	101	6			
USS AGRI-CHEMICALS USS1010	107	3			
Group Average	102				

*Average Relative Performance was computed by averaging the relative yields of a hybrid at each location it was entered. The higher the numerical value for average relative performance, the better the hybrid performed. To be listed in this table, a hybrid must have been entered in at least 3 locations in 1980.

TABLE 2. AVERAGE RELATIVE PERFORMANCE OF HYBRIDS TESTED IN THREE OR MORE LOCATIONS IN 1979 AND 1980.

EARLY MATURITY	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
BECK 58X	87	7
DEKALB XL32AA	97	10
JACQUES JX177	91	7
PIONEER BRAND 3535	97	12
SOUTHERN STATES SS522	86	6
SOUTHERN STATES SS570	89	13
TAYLOR-EVANS 6925	91	13
THOR-O-BRED SX400	88	8
TODD M53	94	9
Group Average	91	

TABLE 3. AVERAGE RELATIVE PERFORMANCE OF HYBRIDS TESTED IN THREE OR MORE LOCATIONS IN 1978, 1979, and 1980.

EARLY MATURITY	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
PIONEER BRAND 3535	97	18
TAYLOR-EVANS 6925	92	18
Group Average	95	

MEDIUM MATURITY	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
BECK 65X	109	12
BECK 75X	103	6
DEKALB XL61	101	11
DENNIS DS37	107	8
DENNIS DS37A	106	7
DENNIS DS47A	108	7
FUNK'S G-4606	105	11
JACQUES JX180	106	7
JACQUES JX227	95	7
NORTHROP KING PX74	108	8
PIONEER BRAND 3369A	107	13
PRAIRIE STREAM SX66	102	6
SOUTHERN STATES SS698	86	8
TAYLOR-EVANS 6945	88	13
TAYLOR-EVANS 6992	93	13
THOR-O-BRED SX544	99	12
TODD MX73A	99	9
TROJAN TXS115A	100	11
Group Average	101	

MEDIUM MATURITY	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
BECK 65X	110	18
DENNIS DS37	106	12
DENNIS DS47A	106	11
FUNK'S G-4606	104	16
NORTHROP KING PX74	110	12
PIONEER BRAND 3369A	108	19
SOUTHERN STATES SS698	88	13
TAYLOR-EVANS 6945	89	16
TAYLOR-EVANS 6992	97	19
TODD MX73A	99	13
TROJAN TXS115A	101	15
Group Average	102	

MID-FULL MATURITY	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
BECK 92X	111	7
COKER 16	102	13
COKER 19	100	13
COKER 19A	106	13
COKER 22	102	13
DEKALB XL71	110	11
DENNIS DS39	112	6
FUNK'S G-4636	101	10
JACQUES JX247	106	11
MCCURDY 7440	117	6
MCCURDY 84AA	107	8
MIDSTATES MS747A	104	6
MIDSTATES MS900	103	6
NORTHROP KING PX87	110	8
PIONEER BRAND 3184	105	11
SOUTHERN STATES SS727	101	11
SOUTHERN STATES SS730	96	11
SOUTHERN STATES SS775	93	10
TAYLOR-EVANS 6968	81	13
TAYLOR-EVANS 6995	103	13
TAYLOR-EVANS 6995-A	100	13
THOR-O-BRED SX650	100	12
TODD M95	106	11
Group Average	103	

MID-FULL MATURITY	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
COKER 16	103	16
COKER 19A	106	16
COKER 22	104	16
DENNIS DS39	112	10
FUNK'S G-4636	103	13
MIDSTATES MS747A	102	9
MIDSTATES MS900	103	9
NORTHROP KING PX87	112	13
PIONEER BRAND 3184	107	17
SOUTHERN STATES SS727	101	17
SOUTHERN STATES SS730	99	16
SOUTHERN STATES SS775	96	16
TAYLOR-EVANS 6968	86	19
TAYLOR-EVANS 6995	106	19
TAYLOR-EVANS 6995-A	104	16
Group Average	103	

TABLE 4. CORN PERFORMANCE, PAINTER 1979 (1980 Trial was not harvested because of severe drought).

EARLY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
BECK 44X	2X	23474	125	88	18.1	59	81
DEKALB XL32AA	2X	23837	137 +	96	17.9	70	82
DEKALB XL43A	2X	23353	120	85	20.4 +	86	80
DEKALB XL53	2X	23837	132	93	20.0 +	76	80
FUNK'S G4315	2X	23837	128	90	17.2 -	81	79
FUNK'S G4321A	2X	23595	132	93	19.2	72	81
FUNK'S G4445	2X	23232	125	88	19.4	85	80
JACQUES JX177	2X	23111	129	91	18.7	65	82
LONGEST SX2	M2X	23353	132	93	19.8	66	83
PIONEER BRAND 3535	2X	24079	144 +	101	20.7 +	88	81
PIONEER BRAND 3541	2X	23595	126	88	18.4	79	81
PIONEER BRAND 3780	2X	23716	120 -	85	16.3 -	84	80
SOUTHERN STATES SS570	2X	23716	124	88	17.6	70	81
TAYLOR-EVANS TE6925	2X	22627	124	87	18.6	59	81
THOR-O-BRED SX400	2X	23595	134	94	17.1 -	75	80
THOR-O-BRED SX414	2X	22869	129	91	18.0	67	81
TODD M53	2X	23474	133	94	19.6	67	80
TODD M59	2X	23474	132	93	18.8	65	83
Group Averages		23487	129	91	18.7	73	81

L.S.D. (.05)

MEDIUM MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
ASGROW RX777	2X	22143	158 +	111	21.5	73	82
BECK 65X	2X	21538	158 +	112	21.9 +	59	84
DEKALB XL72AA	2X	21538	145	102	21.1	57	84
DENNIS DS37	2X	21538	148	104	21.0	54	84
DENNIS DX19	2X	18271	118	83	21.5	81	86
FUNK'S G4520	2X	21659	148	104	21.9 +	61	83
FUNK'S G4606	2X	21901	145	102	22.4 +	67	83
JACQUES JX163	3X	20207	111	78	20.6	46	84
JACQUES JX187	2X	21054	141	99	19.9 -	47	83
NORTRUP KING PX74	2X	21538	152	107	20.4	40	83
O'S GOLD SX5500A	2X	20812	152	107	20.7	51	83
PIONEER BRAND X5407	3X	21780	158 +	112	21.4	76	90
PIONEER BRAND 3369A	2X	21538	162 +	114	21.3	61	84
PIONEER BRAND 3382	2X	21538	134	94	21.2	88	83
TAYLOR-EVANS TE6945	2X	22143	131	92	21.1	77	86
TAYLOR-EVANS TE6992	2X	21054	137	97	20.0 -	53	83
THOR-O-BRED SX544	2X	21780	141	100	20.3 -	39	83
THOR-O-BRED SX548	2X	21417	138	97	22.1	37	83
TODD MX73A	2X	20449	130	91	21.5	48	85
USS AGRI-CHEMICALS USS1010	2X	21780	143	101	20.8	56	83

Group Average

L.S.D. (.05)

TABLE 4. CORN PERFORMANCE, PAINTER 1979 (contd.)

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
ASGROW RX90	2X	21175	141	99	20.5 -	54	84
COKER 16	M2X	21538	146	103	22.5 -	71	83
COKER 19	2X	21175	139	98	20.5	45	84
COKER 19A	M2X	22143	145	102	22.8	49	85
COKER 22	3X	21054	154	108	24.3	62	93
DEKALB XL78	2X	21417	151	107	24.7 +	75	83
DENNIS DS68	2X	21659	142	100	22.7	74	84
DENNIS DX28	2X	21538	149	105	21.1 -	57	89
FUNK'S G4646	2X	21780	152	107	22.7	67	83
JACQUES JX247	2X	21780	163 +	115	24.9 +	52	93
JACQUES JX250	2X	20449	140	99	23.4	63	91
JACQUES W-300	2X	21901	140	99	26.8 +	36	92
MIDSTATES MS747A	2X	21296	142	100	20.9 -	55	85
MIDSTATES MS869	M2X	21538	133	94	21.8	66	84
MIDSTATES MS879	2X	21054	141	99	23.1	60	85
MIDSTATES MS900	M2X	22143	144	101	23.0	78	84
NORTRUP KING PX87	2X	21901	155	109	24.7 +	63	95
O'S GOLD SX5509	2X	22022	160	113	24.4	66	93
PAG SX373	2X	21780	159	112	24.6 +	73	88
PIONEER BRAND 3183	2X	21538	172 +	121	23.4	72	91
PIONEER BRAND 3184	2X	21901	165 +	116	24.0	85	93
PIONEER BRAND 3311	M2X	20933	185 +	130	23.3	51	92
SOUTHERN STATES SS727	2X	21780	138	97	20.7 -	51	85
SOUTHERN STATES SS730	2X	21296	139	98	21.7	66	84
SOUTHERN STATES SS775	2X	22022	132 -	93	22.9	64	82
SOUTHERN STATES SS795	3X	21296	134	94	21.5	36	84
SOUTHERN STATES SS915	2X	21659	153	107	23.6	57	88
TAYLOR-EVANS TE6968	2X	17424	104 -	73	22.4	71	83
TAYLOR-EVANS TE6995	2X	21417	147	104	20.7 -	61	84
TAYLOR-EVANS TE6995-A	2X	21175	157	111	21.9	56	85
THOR-O-BRED SX650	2X	21901	145	102	22.6	41	84
TODD M83	2X	21659	139	98	22.5	64	86
TODD M95	2X	20933	159	112	25.0 +	53	91
VPI 648	4X	21780	133	93	22.2	55	88

Group Averages

L.S.D. (.05)

Experiment Average

L.S.D. (.05)

Cooperators: J. E. Dunton, H. E. Hohlt, H. P. Wilson and R. N. Hoffmaster. Plot Size: 30' x 3' single-row plots, 4 replications. Planting Date: April 10, 1979. Harvest Date: September 18, 1979. Soil Test: pH-6.4, Ca-M+; Mg-Vh; P-M; K-H++; Salt conc ppm 84. Fertilization: 4-6-79: 500 lbs. 5-10-10/A broadcast, 4-10-79: 350 lbs. 33.5% Ammonium Nitrate/A. Herbicides: 4-11-79 - 1.5 qts. AAtrex + 2 qt. Lasso/A post-plant. Growing Conditions: Abundant precipitation during the early growing season with moderate water stress during silking. Conditions were generally good.

TABLE 5. CORN PERFORMANCE, PAINTER TWO YEAR AVERAGES (1978 and 1979)

<u>EARLY MATURITY</u>	<u>PLANTS/ ACRE</u>	<u>YIELD BU/A</u>	<u>RELATIVE YIELD</u>	<u>HARVEST MOISTURE</u>	<u>PERCENT ERECT</u>	<u>DAYS TO SILK</u>
BECK 44X	23272	125	91	16.7	70	86
DEKALB XL43A	22244	116-	85	18.7	92	85
DEKALB XL53	22325	121	88	18.9	86	86
FUNK'S G4321A	22526	122	90	17.7	84	86
FUNK'S G4445	23071	128+	94	18.2	89	85
PIONEER BRAND 3535	22768	131+	96	19.8+	92	87
PIONEER BRAND 3541	22688	120	88	16.9	88	87
PIONEER BRAND 3780	22667	116-	85	15.4	91	85
TODD M59	21175	119	87	16.9	76	88
Group Average	22526	122	89	17.7	85	
L.S.D. (.05)		8				

MEDIUM MATURITY

BECK 65X	21901	147	108	19.9	76	89
DEKALB XL72AA	20126	134	98	19.4	75	89
FUNK'S G4606	20711	136	100	21.1+	82	88
NORTHRUP KING PX74	21659	148+	109	18.8	67	89
O'S GOLD SX5500A	21215	142	104	18.9	72	88
PIONEER BRAND 3369A	21498	152+	112	20.5+	79	88
PIONEER BRAND 3382	21740	132	97	19.6	90	88
TAYLOR-EVANS TE6992	21740	135	99	18.5-	70	88
TODD MX73A	19501	123-	90	19.5	70	90
USS AGR1-CHEMICALS USS1010	20973	129	95	19.2	73	89
Group Average	21106	138	101	19.6	75	
L.S.D. (.05)		9				

MID-FULL MATURITY

COKER 16	21982	142	105	21.3	81	88
COKER 19A	21881	142	104	21.2	66	90
COKER 22	21094	148	109	22.7	77	94
DEKALB XL78	21276	141	104	23.3+	82	88
MIDSTATES MS747A	20005	129	95	19.5-	76	90
MIDSTATES MS869	20368	123-	90	20.6	76	89
MIDSTATES MS879	19723	129	94	21.6	76	90
MIDSTATES MS900	20752	134	98	21.8	87	89
NORTHRUP KING PX87	22244	156+	114	23.1+	78	95
O'S GOLD SX5509	21417	151	111	22.5	81	94
PIONEER BRAND 3183	19884	156+	114	22.7	85	93
PIONEER BRAND 3184	21679	150	110	22.9+	92	95
PIONEER BRAND 3311	21921	176+	129	22.6	71	94
SOUTHERN STATES SS727	20973	138	101	19.3	75	89
SOUTHERN STATES SS730	20731	134	98	20.4	76	89
SOUTHERN STATES SS775	21820	129	95	22.1	80	87
TAYLOR-EVANS TE6968	18715	110-	81	21.3	84	87
TAYLOR-EVANS TE6995	20953	145	106	19.4-	80	88
TAYLOR-EVANS TE6995-A	21881	144	106	20.1-	73	90
Group Average	21015	141	103	21.5	79	
L.S.D. (.05)		12				

TABLE 6. CORN PERFORMANCE, HOLLAND 1980.

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
<u>EARLY MATURITY</u>							
AUGUSTA A305	M2X	22949	102	102	14.2	91	78
BECK 50X	2X	23530	97	97	13.1	97	79
BECK 60X	2X	22949	114	114	14.3	97	74
DEKALB XL32AA	2X	23821	105	104	12.9	85	74
DEKALB XL57	2X	22859	101	101	14.1	73	78
DENNIS D53	2X	24692	113	112	12.6-	92	75
FUNK'S G-4315	2X	24111	98	97	12.9	86	75
FUNK'S G-4321A	2X	23385	103	103	13.1	91	76
FUNK'S G-4445	2X	24111	104	103	14.1	87	76
JACQUES JX177	2X	23821	111	110	13.0	91	76
JACQUES JX179	2X	23530	139+	138	17.0+	89	76
LONGEST SX2	M2X	22804	97	96	14.1	93	79
MIGRO-NAPB HP470	2X	23966	123+	122	14.1	97	78
NORTHROP KING PX37	2X	24547	90-	90	12.5-	95	76
NORTHROP KING PX39	2X	23966	92	91	12.3-	98	76
U'S GOLD SX1170	2X	24111	93	93	12.8	85	77
PAG SX397	2X	22804	100	100	13.2	87	77
PIONEER BRAND 3535	2X	23966	81-	80	14.7+	94	77
PIONEER BRAND 3572	2X	23675	91-	90	13.4	99	76
PRAIRIE STREAM SX44	2X	24256	80-	79	13.0	96	77
PRAIRIE STREAM SX50	2X	24402	111	110	14.1	95	79
SOUTHERN STATES SS570	2X	22659	84-	84	13.3	83	78
TAYLOR-EVANS 6925	2X	23530	103	103	12.6-	87	76
THOR-O-BRED SX400	2X	23821	99	99	12.5-	91	75
THOR-O-BRED SX510	2X	24111	117	117	12.8	94	75
TODD M53	2X	24547	96	95	15.2+	95	78
TUDD M5505	2X	23094	106	105	13.4	94	78
TUDD T38	3X	24547	77-	76	14.4	88	79
TROJAN T1058	2X	23385	88-	87	13.3	96	75
WATSON 410	2X	24402	108	107	13.9	94	77
Group Average		23738	101	100	13.6	91	77
L.S.D. (.05)			17				
<u>MEDIUM MATURITY</u>							
ASGROW RX777	2X	21642	106	106	15.8	95	77
AUGUSTA A310	M2X	22368	94	93	15.9	99	80
BECK 65X	2X	22368	108	107	16.4	92	80
BFCK 75X	2X	20335	106	105	15.1	83	78
BECK 77X	2X	21497	112	111	15.2	88	77
DEKALB XL61	2X	22078	114	113	14.8-	91	78
DEKALB XL67	2X	21206	99	98	15.1	79	81
DENNIS D526	2X	22223	118+	117	19.3+	100	81
DENNIS D537	2X	22078	104	103	17.0	95	80
DENNIS D537A	2X	21787	110	110	16.2	97	80
DENNIS D547A	2X	22223	109	108	13.1-	97	79
FUNK'S G-4507A	2X	20916	87-	87	15.5	96	81
FUNK'S G-4520	2X	21061	89-	88	16.3	92	80
FUNK'S G-4606	M2X	22368	87-	87	16.8	94	80
GOLDEN HARVEST H-2500	2X	21787	105	105	15.3	87	80
JACQUES JX180	2X	21351	110	109	16.4	90	81
JACQUES JX187A	2X	21787	118+	118	16.2	92	80
JACQUES JX227	2X	22078	85-	85	15.6	91	83
MIGRO-NAPB HP58	2X	22223	101	100	16.8	97	80
MIGRO-NAPB M-0505	2X	21351	111	111	16.2	97	79
MIGRO-NAPB SPX49	2X	21497	101	100	14.2-	99	81
MIGRO-NAPB SPX77	2X	21497	110	109	19.9+	93	80
MUNCY CHIEF SX776	2X	22078	113	113	16.8	97	79
MUNCY CHIEF SX777	2X	21061	106	105	14.8-	96	78
NORTHROP KING PX74	2X	22513	111	110	16.0	94	78
NORTHROP KING PX78	2X	21061	90-	90	15.0	91	83
NORTHROP KING PX79	2X	22659	104	104	14.5-	94	80
PAG SX333	2X	21787	105	104	15.6	94	80
PAG SX351	2X	21642	126+	125	16.7	95	79
PENNEY SP1	M2X	20916	117	116	16.1	87	79
PIONEER BRAND X7448	M2X	22368	86-	85	17.8+	100	78
PIONEER BRAND 3320	M2X	21642	124+	123	15.2	91	81
PIONEER BRAND 3368A	M2X	22078	94	93	16.9	92	83
PIONEER BRAND 3369A	2X	21642	112	111	15.0	88	79
PRAIRIE STREAM SX66	2X	21497	100	99	16.7	88	79
PRAIRIE STREAM SX558	2X	21497	74-	74	16.7	94	82
TAYLOR-EVANS 6945	2X	21061	101	101	14.3-	86	80
TAYLOR-EVANS 6992	2X	21061	88-	88	14.5-	79	79
THOR-O-BRED SX544	2X	21497	99	98	16.1	89	78
THOR-O-BRED SX545	2X	22078	99	99	18.1+	96	80
TUDD MX73A	2X	22078	103	102	16.5	98	79
TUDD M88	2X	22513	104	103	16.7	84	80
TROJAN TXS115A	2X	21932	105	104	16.7	95	80
USS AGRI-CHEMICALS USS0555A	3X	20044	110	109	14.5-	95	79
USS AGRI-CHEMICALS USS1010	2X	22078	93-	92	15.5	96	79
WATSON 413	2X	21642	110	110	17.4+	97	80
WATSON 414	2X	21787	109	108	16.5	94	78
WATSON 414A	2X	22078	122+	121	18.0+	95	80
Group Average		21708	104	103	16.1	93	80
L.S.D. (.05)			20				

TABLE 6. CORN PERFORMANCE, HOLLAND 1980 (cont.).

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
<u>MID-FULL MATURITY</u>							
ASGROW RX909	2X	22078	106+	105	18.8	97	79
AUGUSTA A327	2X	22513	113+	112	19.1	95	81
BECK 98X	2X	20770	103	103	19.7	95	82
BECK 89X	2X	19899	105+	104	17.6	99	81
BECK 92X	2X	21932	100	99	17.2	81	80
COKER 16	M2X	21206	98	97	15.9-	94	79
COKER 19	2X	21642	102	101	16.2-	95	79
COKER 19A	M2X	21932	96	95	18.1	95	79
CJKFH 21	2X	20916	90	90	19.7	88	82
CJKER 22	3X	21642	92	92	19.4	88	81
DEKALB XL70	2X	22078	92	92	16.2-	95	81
DEKALB XL71	2X	21932	101	100	18.4	100	80
DENNIS D539	2X	22223	106+	105	18.4	85	80
FUNK'S G-4611	M2X	21206	83-	82	15.9-	81	80
FUNK'S G-4636	2X	21787	84-	84	19.9+	99	80
FUNK'S G-4689	2X	21351	92	92	17.0	87	80
GOLDEN HARVEST H-2775A	2X	21061	106+	105	19.5	81	81
JACQUES JX247	2X	20335	80-	79	19.3	85	82
MCCURDY T440	2X	21787	98	98	15.4-	93	78
MCCURDY T787	2X	21497	100	99	19.4	87	79
MCCURDY T9-2	2X	22223	91	91	16.2-	91	77
MCCURDY 8150	2X	22223	114+	113	19.0	95	80
MCCURDY 84AA	2X	22078	104+	103	19.0	82	80
MCNAIR X-300	2X	20480	93	92	21.7+	87	83
MCNAIR 3232EXP	2X	20480	76-	75	22.3+	90	83
MIGRO-NAPB HP87	2X	21932	102	101	18.8	94	81
MIGRO-NAPB M-0707	2X	21787	105+	104	17.7	95	79
MIGRO-NAPB M-6666	2X	21497	90	89	15.8-	91	78
MIGRO-NAPB M-7072	2X	21932	100	99	16.2-	80	80
NORTHROP KING PX83	2X	21497	98	98	17.7	93	79
NORTHROP KING PX87	2X	21787	93	93	19.6	88	81
U'S GOLD SX5509	2X	22513	96	95	18.8	83	82
PAG SX373	2X	21351	84-	84	18.7	91	83
PIONEER BRAND 3160	M2X	21642	100	99	17.8	95	81
PIONEER BRAND 3184	2X	21932	105+	104	18.6	99	81
PRAIRIE STREAM SX73	2X	21642	89	89	18.9	99	80
SOUTHERN STATES SS730	2X	21351	97	97	17.0	97	79
SOUTHERN STATES SS775	2X	21932	94	94	16.0-	97	78
SOUTHERN STATES SS915	2X	21061	93	92	20.1+	81	81
TAYLOR-EVANS 6968	2X	21351	93	93	15.3-	92	78
TAYLOR-EVANS 6995	2X	20480	96	95	15.6-	96	79
TAYLOR-EVANS 6995-A	2X	20770	86-	85	14.6-	91	81
THOR-O-BRED SX400	2X	21932	99	98	19.9+	95	82
THOR-O-BRED SX650	2X	21206	97	96	18.1	96	79
TUDD M95	2X	21497	102	102	19.4	94	81
TROJAN T1170	2X	21351	90	89	17.1	93	81
TROJAN T1230	2X	21642	87-	86	19.4	85	83
USS AGRI-CHEMICALS USS2020	2X	22223	90	89	19.3	90	82
USS AGRI-CHEMICALS USS2315	2X	21351	86-	85	20.4+	80	81
WATSON 415	2X	21351	111+	110	19.2	90	80
WATSON 415A	2X	20335	105+	105	20.7+	83	80
WATSON 418	2X	19463	95	94	18.0	96	79
WATSON 419	2X	21787	98	97	14.5-	99	80
Group Average		21469	96	96	18.2	91	80
L.S.D. (.05)			21				
Experiment Average		22076	100	100	16.4	92	79
L.S.D. (.05)			20				

Cooperators: John Bryant, Tidewater Research & CEC. Plot Size: 25' x 3', single row plots, 4 replications. Planting Date: April 9, 1980. Harvest Date: September 3, 1980. Fertilization: 600 lbs/A 6-18-36; 130 lbs/A 30% N Ammonium nitrate. Soil Test: pH=6.0, P=H, K=M, Ca=H, Mg=H, Mn=2.3 ppm, Zn=6 ppm. Herbicides: 30 lbs/A Sutan 10-G; 2 quarts/A Lasso; 1.5 lbs/A AATrex 4-L, 10 lbs/A Furadan 10-G in row. Growing Conditions: Rainfall was adequate throughout May with moisture conditions becoming extremely limiting (dry) during June. Early July rains prevented severe drought stress during silking and tasseling. Excessive heat stress during late July and throughout August resulted in earlier maturation and harvest.

TABLE 7. CORN PERFORMANCE, HOLLAND TWO YEAR AVERAGES.

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
BECK 58X	23563	109	98	15.6	93	81
FUNK'S G-4445	23853	113	101	16.4	79	78
JACQUES JX177	23466	109	98	15.8	79	79
PAG SX397	23079	115+	103	15.1	58	80
PIONEER BRAND 3535	23902	99	89	17.5	91	80
PRAIRIE STREAM SX44	23684	92-	82	16.0	94	79
SOUTHERN STATES 55570	23248	102	91	15.3	77	79
TAYLOR-EVANS 6925	23260	106	95	15.2	73	79
THOR-O-BRED SX400	23587	104	93	14.0-	72	78
TUJO M53	24253	110	99	17.9+	80	81
TRUJAN TX1058	23369	94-	84	15.3	66	77
WATSON 410	23031	116+	104	19.3+	81	82
Group Average	23524	107	95	15.8	79	79
L.S.D. (.05)		12				
MEDIUM MATURITY						
BECK 65X	22256	129+	115	20.0+	84	83
BECK 75X	21239	120	108	18.8	84	81
DEKALB XL61	21929	116	104	18.7	87	80
DENNIS DS37	22111	117	105	19.4	73	83
DENNIS DS47A	21965	122	109	19.7	89	84
DENNIS DS47A	22123	117	105	17.1-	92	82
FUNK'S G-4520	21118	111	100	19.4	85	83
FUNK'S G-4606	22074	110	99	20.1+	88	83
GOLDEN HARVEST H-2500	21723	115	103	18.6	79	83
JACQUES JX180	21505	115	103	19.7	77	83
JACQUES JX227	21808	84-	75	18.6	75	86
NORTHROP KING PX74	22147	125+	112	19.3	67	81
NORTHROP KING PX79	22159	115	103	18.8	78	84
PAG SX333	21905	114	102	19.1	72	83
PAG SX351	21953	126+	113	19.9+	83	84
PERNEY SP1	21288	117	104	18.9	86	81
PIONEER BRAND 3320	21772	134+	120	19.2	83	85
PIONEER BRAND 3368A	21869	108	97	20.0+	87	86
PIONEER BRAND 3369A	22014	117	105	18.4-	93	82
PRAIRIE STREAM SX66	21760	118	106	19.6	85	82
TAYLOR-EVANS 6945	21481	99-	89	18.1-	83	84
TAYLOR-EVANS 6992	20997	99-	89	17.9-	64	81
THOR-O-BRED SX544	21820	118	106	19.5	78	82
TUJO MXT3A	21808	114	102	19.1	83	82
TRUJAN TXS115A	21675	113	101	19.4	65	83
USS AGRI-CHEMICALS USS1010	21929	114	102	19.5	89	83
WATSON 414	21965	118	105	19.3	77	82
Group Average	21866	115	103	19.1	81	83
L.S.D. (.05)		14				
MID-FULL MATURITY						
BECK 88X	21578	126+	113	22.0	81	86
BECK 92X	21796	121+	109	20.8	72	85
COKER 16	21614	105	94	19.0-	86	81
COKER 19	21651	115	103	18.9-	78	82
COKER 19A	21856	112	100	20.5	78	82
COKER 22	21711	107	96	22.3+	77	85
DEKALB XL71	22098	124+	111	21.5	96	83
DENNIS DS39	22486	110	98	21.1	67	84
FUNK'S G-4611	22159	95-	85	19.3-	69	83
FUNK'S G-4636	21844	103	92	22.0	90	83
GOLDEN HARVEST H-2775A	21542	118	106	22.3+	68	85
JACQUES JX247	21179	109	97	22.0	73	86
MCCURDY 7440	21965	106	95	18.3-	69	81
MCCURDY 7787	21881	105	94	21.7	64	82
MCCURDY 84AA	21929	117	105	21.4	70	84
NORTHROP KING PX87	21663	121+	108	22.7+	76	86
O'S GOLD SX5509	22026	108	97	21.9	81	87
PAG SX373	21505	97-	87	22.2+	80	86
PIONEER BRAND 3184	21856	103	92	21.0	97	85
SOUTHERN STATES 55730	21384	104	93	19.3-	75	82
SOUTHERN STATES 55775	21735	103	92	19.7	82	80
TAYLOR-EVANS 6968	20295	91-	81	18.9-	84	81
TAYLOR-EVANS 6995	20949	105	94	18.4-	75	84
TAYLOR-EVANS 6995-A	21154	99-	89	18.5-	71	84
THOR-O-BRED SX650	21130	102	91	21.1	74	82
TUJO M95	21760	120+	108	22.1	84	86
WATSON 415	21808	118	106	22.0	80	85
WATSON 418	20985	116	104	21.2	81	83
WATSON 419	21965	122+	109	19.8	77	84
Group Average	21637	110	98	20.8	78	84
L.S.D. (.05)		15				
Experiment Average	22060	111	100	19.2	79	83
L.S.D. (.05)		14				

TABLE 8. CORN PERFORMANCE, HOLLAND THREE YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
FUNK'S G-4445	23861	122	102	16.5	83	80
PAG SX397	23291	126+	105	15.1	71	81
PIONEER BRAND 3535	23194	110-	93	17.2+	94	81
TAYLOR-EVANS 6925	23519	115	97	15.1	81	81
Group Average	23466	118	99	16.0	82	81
L.S.D. (.05)		10				
MEDIUM MATURITY						
BECK 65X	22097	134+	113	19.5+	87	85
DEKALB XL61	21772	124	104	18.4	90	81
DENNIS DS37	21839	117	98	18.8	80	85
DENNIS DS47A	22008	121	101	17.0-	93	83
FUNK'S G-4520	20317	120	101	19.0	88	83
FUNK'S G-4606	21277	119	100	19.9+	89	84
GOLDEN HARVEST H-2500	21312	117	99	18.6	85	85
NORTHROP KING PX74	21863	131+	110	18.7	77	83
PAG SX333	22293	125	105	18.7	79	84
PIONEER BRAND 3368A	21785	112-	94	19.9+	90	88
PIONEER BRAND 3369A	21882	127+	107	18.4	94	83
TAYLOR-EVANS 6945	21903	105-	88	17.5-	86	86
TAYLOR-EVANS 6992	21097	112-	94	17.7-	75	83
TUJO MXT3A	21315	119	100	18.8	87	83
TRUJAN TXS115A	21548	118	99	18.7	75	85
WATSON 414	21150	122	103	18.8	83	84
Experiment Average	21587	120	101	18.7	85	84
L.S.D. (.05)		11				
MID-FULL MATURITY						
BECK 88X	21591	133+	111	21.2	86	87
COKER 16	22046	114	96	18.8-	88	82
COKER 19A	21777	119	100	20.4	84	85
COKER 22	21734	121	102	21.9+	81	86
DENNIS DS39	22196	119	100	21.1	76	85
FUNK'S G-4611	21333	107-	89	19.1	79	95
FUNK'S G-4636	21715	115	97	21.4	92	84
NORTHROP KING PX87	21540	130+	109	22.0+	81	87
O'S GOLD SX5509	21352	124	104	21.6+	86	87
PIONEER BRAND 3184	21831	116	97	20.9	97	86
SOUTHERN STATES 55730	21139	115	96	19.2	81	84
SOUTHERN STATES 55775	21696	110	92	19.6	86	82
TAYLOR-EVANS 6968	21059	105-	88	18.6-	88	82
TAYLOR-EVANS 6995	21279	111	93	18.7-	81	86
TAYLOR-EVANS 6995-A	21578	113	95	18.5-	79	86
WATSON 418	20981	120	101	20.6	85	85
Group Average	21552	111	92	20.2	84	85
L.S.D. (.05)		12				
Experiment Average	21780	116	100	19.1	94	84
L.S.D. (.05)		11				

TABLE 9. CORN PERFORMANCE, WARSAW 1980

EARLY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD	RELATIVE	HARVEST	PERCENT	DAYS TO EAR	
			BU/A	YIELD	MOISTURE	ERECT	SILK	HEIGHT
AUGUSTA A305	M2X	20328	87	95	19.3	98	78	31
BECK 58X	2X	19602	68 -	74	17.4	99	78	28
BECK 60X	2X	20328	89	97	19.9 +	99	77	26
CLARK 719EXP	2X	20328	82	90	16.1	99	77	28
DEKALB XL32AA	2X	20328	91 +	100	19.6 +	100	77	33
DEKALB XL57	2X	20328	78	85	20.4 +	96	79	30
DENNIS D56	2X	20328	94 +	102	16.5	98	76	31
FUNK'S G-4315	2X	20328	74	80	15.4 -	99	76	26
FUNK'S G-4321A	2X	20328	70 -	76	17.4	98	78	27
MIGRO-NAPB HP470	2X	20328	82	89	19.2	99	79	27
MUNLY CHIEF SX660	2X	20328	75	81	15.4	94	77	31
MUNCY CHIEF SX662	2X	20328	81	88	19.4	99	79	29
NORTHROP KING PX37	2X	20328	82	89	14.6 -	99	76	24
NORTHROP KING PX39	2X	20328	88	96	16.4	98	77	29
O'S GOLD SX1170	2X	20328	94 +	102	16.3	99	76	32
PIONEER BRAND 3572	2X	20328	72 -	78	16.7	99	76	28
PIONEER BRAND 3591	M2X	20328	70 -	76	14.9 -	100	77	27
PRAIRIE STREAM SX50	2X	19965	87	94	20.7 +	99	73	27
SOUTHERN STATES SS570	2X	20328	80	87	18.4	99	77	26
TAYLOR-EVANS 6925	2X	20328	80	87	15.4 -	99	77	30
THOR-G-BRED SX510	2X	20328	91 +	99	16.6	96	77	30
TODD M5100	2X	19723	72 -	75	17.1	100	77	25
TODD M53	2X	20207	82	90	22.2 +	99	77	29
TRUJAN T1059	2X	20328	97 +	106	18.0	99	75	27
Group Average		20252	81	89	17.7	98	77	28
L.S.D. (.05)			9					
MEDIUM MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD	RELATIVE	HARVEST	PERCENT	DAYS TO EAR	
			BU/A	YIELD	MOISTURE	ERECT	SILK	HEIGHT
ASGRUM RX777	2X	18392	103	112	21.6	94	75	33
AUGUSTA A310	M2X	18392	87	95	17.7	99	80	30
BECK 65X	2X	18392	96	105	20.8	98	77	35
BECK 75X	2X	18271	99	108	16.5	97	77	30
CLARK 777A	2X	18392	96	105	19.5	99	77	33
DEKALB XL61	2X	18392	87	95	20.0	98	76	28
DEKALB XL67	2X	18392	102	111	20.0	97	79	34
DENNIS D526	2X	18392	104 +	113	23.0 +	99	75	28
DENNIS D537	2X	18392	106 +	115	21.4 +	99	77	33
DENNIS D537A	2X	18392	95	103	20.7	99	77	32
DENNIS D567A	2X	18392	108 +	117	14.8 -	97	76	27
FUNK'S G-4507A	2X	18392	100	109	20.2	98	73	34
FUNK'S G-6606	M2X	18392	97	106	20.8	99	78	31
JACQUES JX180	2X	18392	103	112	21.4 +	96	77	34
JACQUES JX227	2X	18392	89	97	19.6	98	80	33
MIGRO-NAPB SPX77	2X	18392	109 +	119	22.2 +	99	79	32
MUNCY CHIEF SX776	2X	18392	96	104	20.4	99	73	32
MUNCY CHIEF SX777	2X	18392	93	101	17.9	97	78	34
NORTHROP KING PX78	2X	18392	92	100	18.0	100	80	34
PENNEY SP1	M2X	18392	90	98	17.6 -	88	78	34
PIONEER BRAND 3320	M2X	18392	114 +	124	20.4	98	79	33
PIONEER BRAND 3369A	2X	18392	90	98	19.0	99	78	33
PRAIRIE STREAM SX66	2X	18271	84 -	91	19.5	100	78	33
SOUTHERN STATES SS699	SPX	18392	69 -	75	18.1	98	78	30
TAYLOR-EVANS 6945	2X	18271	86 -	93	17.2 -	99	79	28
TAYLOR-EVANS 6992	2X	18392	91	99	17.2 -	94	78	34
THOR-G-BRED SX544	2X	18392	87	95	19.6	98	78	32
THOR-G-BRED SX545	2X	18271	90	98	22.0 +	99	78	33
TODD MX73A	2X	18392	91	99	19.9	99	79	34
TODD M88	2X	18392	93	101	19.6	94	79	32
TRUJAN TXS115A	2X	18392	98	106	20.0	98	77	34
Group Average		18376	95	104	19.6	98	78	32
L.S.D. (.05)			11					

TABLE 9. CORN PERFORMANCE, WARSAW 1980 (contd.)

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD	RELATIVE	HARVEST	PERCENT	DAYS TO EAR	
			BU/A	YIELD	MOISTURE	ERECT	SILK	HEIGHT
AUGUSTA A327	2X	18392	99	107	20.9	99	80	31
BECK 88X	2X	18029	96	104	20.5	96	80	32
BECK 89X	2X	18392	111 +	121	18.3	99	79	33
CLARK 770	2X	18392	98	107	20.2	97	80	33
CLARK 770A	2X	18392	98	106	19.4	97	80	32
CLARK 791EXP	2X	17747	81 -	88	13.3 -	100	80	26
CLARK 16	M2X	18392	90	98	17.0	99	78	29
CJCKER 19	2X	18392	90	98	17.2	95	78	33
CJCKER 19A	M2X	18392	91	99	22.2 +	95	79	35
CJCKER 21	2X	17061	95	104	21.6	99	80	35
CJCKER 22	1X	18392	86	94	20.5	98	80	33
DEKALB XL70	2X	18392	82 -	89	16.3 -	99	80	30
DEKALB XL71	2X	18392	93	101	21.5	99	79	35
DENNIS D539	2X	18392	107 +	117	21.1	99	79	34
FUNK'S G-4636	2X	18392	73 -	79	20.3	99	79	31
FUNK'S G-4646	2X	18392	91	99	16.1 -	96	78	31
JACQUES JX247	2X	18392	98	107	20.4	97	80	31
MCCURDY 7440	2X	18392	113 +	123	16.0 -	99	73	33
MCCURDY 7797	2X	18392	101	110	21.7	99	80	33
MCCURDY 8414	2X	18392	102 +	111	21.3	99	77	34
MCGAIR X-300	2X	18150	88	95	21.8	97	82	33
MCGAIR 3232EXP	2X	17787	77 -	84	22.9 +	97	82	33
MIDSTATES MS747A	2X	18392	86	94	18.2	98	77	33
MIDSTATES MS775	2X	18392	95	103	22.1 +	98	78	33
MIDSTATES MS900	M2X	18392	92	100	18.4	97	78	30
MIGRO-NAPB HP87	2X	18392	100	109	20.1	97	80	31
MIGRO-NAPB M-0707	2X	18392	97	106	22.8 +	99	79	33
MIGRO-NAPB M-6666	2X	18392	88	95	16.3 -	99	77	30
MIGRO-NAPB M-7072	2X	18392	80 -	87	18.6	96	80	30
NORTHROP KING PX37	2X	18392	100	109	22.3 +	99	80	32
O'S GOLD SX5509	2X	18392	104 +	113	21.5	99	80	33
PIONEER BRAND 3184	2X	18392	94	103	20.3	98	80	29
PRAIRIE STREAM SX73	2X	18392	100	109	20.3	99	79	31
SOUTHERN STATES SS727	2X	18392	97	106	16.4 -	99	73	35
SOUTHERN STATES SS775	2X	18392	89	97	17.8	99	77	30
SOUTHERN STATES SS915	2X	18271	95	103	21.7	90	80	35
TAYLOR-EVANS 6966	2X	18392	82 -	89	15.3 -	99	78	29
TAYLOR-EVANS 6995	2X	18271	97	106	17.8	99	79	33
TAYLOR-EVANS 6995-A	2X	18150	94	102	14.3 -	98	80	33
THOR-G-BRED SX600	2X	18392	100	108	22.1 +	99	80	32
THOR-G-BRED SX650	2X	18392	100	106	18.3	99	78	32
TODD M95	2X	18271	94	102	21.4	97	80	32
TRUJAN T1170	2X	18392	82 -	89	19.4	99	78	33
TRUJAN T1230	2X	18392	100	109	21.7	98	80	32
Group Average		18307	94	102	19.5	98	79	32
L.S.D. (.05)			11					
Experiment Average		18796	91	100	19.1	98	78	31
L.S.D. (.05)			7					

Cooperators: H. M. Camper, Jr., Eastern Va. Research Station Plot Size: 30' x 3'
Planting Date: April 21, 1980 Harvest Date: Early hybrids - 9/2 & 3/80, Medium hybrids -
9/4 & 5/80, Fall hybrids - 9/9 & 10/80 Fertilization: 4-16-80: 250 lbs. 8-24-24, 350 lbs
15-10-10 broadcast; 6-2-80: 206 lbs/A 34% N Ammonium Nitrate as sidedress. Herbicides: 1.5lbs/A
Aatrex, cultivated twice Growing Conditions: Drought conditions prevailed throughout the
entire growing season causing significant reduction in grain yield.

TABLE 10. CORN PERFORMANCE, WARSAW TWO YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
BECK 58X	21720	109 -	83	20.5	74	78
DENNIS DS6	22143	126 +	95	19.6	75	77
FUNK'S G-4321A	22083	117	89	20.0	80	78
SOUTHERN STATES SS570	22204	121	92	20.2	83	78
TAYLOR-EVANS 6925	21659	112	85	18.9 -	74	78
TODD M53	22204	124	94	23.5 +	64	77
Group Average	22002	118	90	20.5	75	78
L.S.D. (.05)		7				

MEDIUM MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
ASGROW RX777	20268	144 +	110	23.0 +	57	77
BECK 65X	20268	138	104	23.0 +	59	78
BECK 75X	20147	136	103	20.6 -	53	78
CLARK 777A	20026	131	99	21.3	57	78
DEKALB XL61	20268	134	102	22.6	65	78
DENNIS DS37	20268	139	105	22.7	61	79
DENNIS DS37A	20389	133	101	22.8	66	79
DENNIS DS47A	20328	145 +	110	18.9 -	56	79
JACQUES JX180	19965	133	101	22.9	61	79
JACQUES JX227	20026	121 -	92	22.4	63	82
PENNEY SPI	20268	140	106	21.7	48	79
PIONEER BRAND 3369A	20086	145 +	110	21.9	63	79
PRAIRIE STREAM SX66	20086	135	102	22.7	56	79
SOUTHERN STATES SS698	19784	111 -	84	21.6	63	78
TAYLOR-EVANS 6945	20026	118 -	89	20.8 -	63	81
TAYLOR-EVANS 6922	20268	133	101	20.4 -	56	79
TODD MX73A	20268	124	94	22.3	61	80
TODD M88	20147	132	100	21.6	66	81
TROJAN TXS115A	20086	130	98	22.2	57	79
Group Average	20156	133	101	21.9	59	79
L.S.D. (.05)		8				

MID-FULL MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
CLARK 770A	20389	140	106	22.3	69	81
COKER 16	20147	134	102	21.1	53	79
COKER 19	20026	122 -	93	20.9	54	79
COKER 19A	20207	136	103	24.0	57	80
COKER 22	20328	135	102	24.0	59	81
DEKALB XL71	20268	145 +	110	24.3	65	80
DENNIS DS39	20389	143 +	109	24.0	58	79
FUNK'S G-4636	20147	124 -	94	24.0	55	80
FUNK'S G-4646	20086	130	99	21.1	56	79
MCCURDY 844A	20147	144 +	109	23.8	57	80
MIDSTATES MS747A	20026	127	96	21.2	63	79
MIDSTATES MS900	20086	137	104	21.5	65	79
NORTHROP KING PX87	20086	143 +	108	25.9	57	82
SOUTHERN STATES SS727	19965	134	102	20.4	65	79
SOUTHERN STATES SS775	20268	128	97	21.4	56	78
TAYLOR-EVANS 6968	18876	111 -	85	19.9	58	78
TAYLOR-EVANS 6995	20389	133	101	20.7	60	80
TAYLOR-EVANS 6995-A	20207	131	99	19.3	57	81
TODD M95	20328	141	107	25.0	53	81
Group Average	20124	134	101	22.4	59	80
L.S.D. (.05)		9				
Experiment Average	20393	131	100	21.9	61	79
L.S.D. (.05)		8				

TABLE 11. CORN PERFORMANCE, WARSAW THREE YEAR AVERAGES.

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
BECK 58X	21256	104 -	81	19.4	82	80
FUNK'S G-4321A	21699	112	88	19.8 +	86	79
TAYLOR-EVANS 6925	22143	110	86	19.1 -	82	79
Group Average	21699	109	85	19.4	83	79
L.S.D. (.05)		7				

MEDIUM MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
BECK 65X	21215	138 +	109	22.9 +	70	81
CLARK 777A	20570	131	103	21.8	67	81
DENNIS DS37	20530	135	106	22.6 +	73	81
DENNIS DS47A	20489	137	108	19.9 -	70	81
PENNEY SPI	19844	130	103	21.0	62	81
PIONEER BRAND 3369A	20651	137	108	21.6	73	81
SOUTHERN STATES SS698	19884	107 -	84	21.8	75	80
TAYLOR-EVANS 6992	20489	128	101	21.5	68	81
TODD MX73A	19683	123	96	22.9 +	73	81
TODD M88	20207	128	100	21.7	77	82
TROJAN TXS115A	20368	125	99	21.7	71	81
Group Average	20357	129	102	21.8	71	81
L.S.D. (.05)		7				

MID-FULL MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
CLARK 770A	20812	134	105	22.2	78	83
COKER 16	21215	127	100	20.9	66	81
COKER 19A	20610	132	104	23.9 +	69	82
COKER 22	20893	129	102	24.0 +	71	84
DENNIS DS39	20852	138 +	109	23.2	70	82
FUNK'S G-4636	20449	121 -	95	23.7	70	82
MIDSTATES MS747A	19723	122	96	21.3	74	82
MIDSTATES MS900	20046	130	102	21.5	74	82
NORTHROP KING PX87	20489	131	103	25.5 +	71	84
SOUTHERN STATES SS727	20126	132	103	20.7 -	74	81
SOUTHERN STATES SS775	20731	125	98	21.6	67	80
TAYLOR-EVANS 6968	20207	112 -	88	20.1 -	70	80
TAYLOR-EVANS 6995	21256	138 +	109	20.9	69	82
Group Average	20521	219	101	22.3	71	82
L.S.D. (.05)		8				
Experiment Average	20585	127	100	21.8	72	81
L.S.D. (.05)		8				

TABLE 12. CORN PERFORMANCE, ORANGE 1980

EARLY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HEIGHT
AUGUSTA A305	M2X	24402	86 +	110	13.2	87	73	31
BECK 44X	2X	24530	63	81	12.9	85	75	27
BECK 58X	2X	20916	56	71	12.7	89	76	28
BECK 60X	2X	23966	85 +	109	13.1	93	73	26
DEKALB XL32AA	2X	24256	76	97	13.0	85	75	28
DEKALB XL57	2X	24111	70	90	13.6 +	92	75	29
DENNIS DS3	2X	24256	61	78	12.4 -	83	73	23
DENNIS DS6	2X	21787	47 -	60	12.7	86	75	26
JACQUES JX177	2X	23094	62	79	12.9	90	75	27
JACQUES JX179	2X	22659	72	93	13.3 +	88	75	26
MASTER FARMER MF-500	2X	24256	55 -	71	12.4 -	86	73	27
MIGRO-NAPB HP27	2X	21061	43 -	55	12.8	90	77	29
MIGRO-NAPB HP47J	2X	24402	64	83	12.7	91	77	28
MUNCY CHIEF SX560	2X	22659	52 -	66	12.5 -	90	76	29
MUNCY CHIEF SX660	2X	22804	54 -	70	12.9	78	77	29
MUNCY CHIEF SX682	2X	23675	50 -	64	14.1 +	87	76	29
NORTHROP KING PX37	2X	24111	62	79	12.6	86	72	24
NORTHROP KING PX39	2X	24402	62	79	12.9	91	75	28
PAG SX397	2X	24256	85 +	108	12.8	59	72	27
PIONEER BRAND 3535	2X	24111	65	83	13.1	87	71	26
PIONEER BRAND 3572	2X	24256	69	89	13.1	90	73	28
PIONEER BRAND 3591	M2X	24402	61	79	12.4 -	96	72	24
PRAIRIE STARFAX SX44	2X	24402	67	86	12.6	96	72	25
SOUTHERN STATES SS57J	2X	23675	64	82	12.7	74	70	26
TAYLOR-EVANS 6925	2X	23821	72	92	12.7	80	73	29
THOR-U-BRED SX400	2X	24402	63	81	12.3 -	77	73	24
THOR-U-BRED SX410	2X	24402	68	87	12.9	90	72	27
TUDD M53	2X	24530	71	90	12.8	67	72	27
TUDD M505	2X	24530	84 +	108	12.4	89	73	28
TRUJAN T1054	2X	24256	73	94	13.2	77	72	27
YODER XL405	2X	24256	75	96	13.0	85	72	30
Group Averages		23666	66	84	12.9	85	74	27
L.S.D. (.05)			21					

MEDIUM MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HEIGHT
AUGUSTA A300	2X	14089	65 -	84	14.6	82	78	38
AUGUSTA A310	M2X	21206	96	119	14.7	93	74	36
BECK 65X	2X	22078	69 -	89	14.4	89	76	34
BECK 77X	2X	22078	74 -	94	14.2	91	75	31
DEKALB XL61	2X	21932	88	113	14.0	85	72	30
DEKALB XL67	2X	21497	80	103	14.2	80	76	38
DENNIS DS26	2X	22078	91 +	116	16.0 +	94	74	32
DENNIS DS37	2X	22078	87	112	14.6	90	76	34
DENNIS DS37A	2X	21642	83	107	14.6	91	76	33
DENNIS DS47A	2X	22078	77	98	13.4 -	86	75	29
FUNK'S G-4507A	2X	21497	94 +	120	14.3	85	74	35
FUNK'S G-4520	2X	20480	75	96	14.7	81	75	32
FUNK'S G-4606	M2X	22078	80	102	14.6	86	73	34
JACQUES JX180	2X	21932	97 +	125	14.3	87	71	34
JACQUES JX187A	2X	20189	87	112	14.7	91	77	34
JACQUES JX227	2X	22078	87	111	14.5	94	74	37
KENWORTHY KL-X55	3X	22078	91 +	116	14.7	83	74	35
KENWORTHY KL-X68LMJ	2X	22078	91 +	117	14.2	92	73	34
MASTER FARMER MF-600J	2X	21932	74 -	94	15.7 +	83	73	31
MASTER FARMER MF-650	2X	21497	89	114	16.2 +	82	75	33
MIGRO-NAPB HP38	2X	22078	74 -	95	14.3	82	74	34
MIGRO-NAPB M-0505	2X	22044	84	108	14.8	91	73	36
MIGRO-NAPB SPX49	2X	22189	73 -	93	13.0 -	94	76	33
MIGRO-NAPB SPX77	2X	21642	93 +	119	14.7	87	73	32
MUNCY CHIEF SX776	2X	21932	95 +	122	14.4	89	74	35
MUNCY CHIEF SX777	2X	21061	96 +	123	13.8 -	95	74	34
NORTHROP KING PX74	2X	22078	85	109	14.0	87	75	32
NORTHROP KING PX78	2X	22078	79	102	14.5	90	77	36
PAG SX333	2X	22078	94 +	120	14.2	82	72	34
PAG SX351	2X	21642	78	100	13.8 -	96	72	33
PENNEY SP1	M2X	21206	83	107	14.7	91	75	36
PIONEER BRAND X7448	M2X	21787	71 -	91	15.5 +	97	75	31
PIONEER BRAND 3320	M2X	22078	81	104	15.2	93	77	37
PIONEER BRAND 3368A	2X	22078	82	105	14.1	91	76	35
PIONEER BRAND 3369A	2X	22078	82	105	14.1	91	76	35
SOUTHERN STATES SS699	SPX	22078	73 -	94	14.3	93	71	29
TAYLOR-EVANS 6945	2X	20335	76	98	14.0	42	75	31
TAYLOR-EVANS 6992	2X	21497	79	101	13.5 -	91	76	35
THOMPSON 221	2X	21642	80	103	16.0 +	90	78	36
THOR-U-BRED SX544	2X	21932	71 -	91	14.3	92	78	36
THOR-U-BRED SX545	2X	21497	73 -	94	14.9	95	78	36
TUDD M73A	2X	22078	78	100	14.3	84	74	35
TRUJAN TXS115A	2X	20189	80	103	14.4	91	76	35
USS AGRIC-CHEMICALS USS1010	2X	21497	90 +	115	14.2	86	75	35
USS AGRIC-CHEMICALS USS1015	2X	20044	78	100	15.6 +	90	77	31
YODER T10A	3X	22078	78	100	13.8 -	78	74	31
Group Average		21361	82	105	14.6	89	75	34
L.S.D. (.05)			21					

TABLE 12. CORN PERFORMANCE, ORANGE 1980 (cont.)

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HEIGHT
AUGUSTA A327	2X	22078	85	109	16.6	89	75	34
BECK 92X	2X	21497	88	112	15.6	84	76	36
CUKER 16	M2X	20044	83	107	14.6	88	73	31
CUKER 19	2X	20625	86	110	14.1 -	88	75	33
CUKER 19A	M2X	20770	70 -	89	15.9	91	77	35
CUKER 21	2X	19899	79	101	16.6	85	78	33
CUKER 22	3X	20625	85	109	17.2 +	89	75	34
DEKALB XL70	2X	21932	95 +	122	14.4 -	94	76	38
DEKALB XL71	2X	18156	69 -	88	15.4	92	77	35
DENNIS DS39	2X	22078	106 +	136	15.5	89	73	31
FUNK'S G-4636	2X	22078	95 +	122	16.2	91	72	32
FUNK'S G-4689	2X	21351	74	95	15.5	91	80	32
FUNK'S G-4709	2X	21061	42	105	14.0 -	95	77	30
JACQUES JX247	2X	22078	81	104	17.1 +	88	77	35
KENWORTHY KL-X71	2X	18882	87	112	15.4	96	75	33
DEKALB XL71	M2X	19463	75	96	15.8	89	77	32
MIDSTATES MS747A	2X	21642	90	115	14.2 -	90	75	35
MIDSTATES MS775	2X	22078	94 +	120	15.6	83	74	34
MIDSTATES MS900	M2X	21206	87	112	14.0	92	74	30
MIGRO-NAPB HP87	2X	22078	86	113	16.7 +	93	75	34
MIGRO-NAPB M-0707	2X	21932	99 +	127	16.3	89	76	34
MIGRO-NAPB M-6666	2X	18011	57 -	73	14.5 -	94	76	30
MIGRO-NAPB M-7072	2X	22078	88	113	15.8	95	76	30
NORTHROP KING PX83	2X	22078	78	100	17.0 +	94	76	34
NORTHROP KING PX87	2X	22078	86	110	15.7	87	77	36
PIONEER BRAND 3160	M2X	22078	88	113	17.1 +	93	79	34
PIONEER BRAND 3184	2X	22078	79	102	16.6	94	76	29
SOUTHERN STATES SS727	2X	20480	81	104	14.3 -	90	77	35
SOUTHERN STATES SS730	2X	21787	84	108	15.0	91	76	31
SOUTHERN STATES SS915	2X	21061	83	106	18.6 +	91	77	35
TAYLOR-EVANS 6968	2X	21497	73	94	14.9	93	74	27
TAYLOR-EVANS 6995	2X	19463	93 +	119	14.0 -	89	74	35
TAYLOR-EVANS 6995-A	2X	16122	72	93	14.2 -	95	77	34
THOMPSON 219A	4X	20916	62 -	79	15.0	88	78	33
THOR-U-BRED SX600	2X	21787	72	92	16.4 +	93	79	32
THOR-U-BRED SX650	2X	21497	79	101	15.4	85	76	31
TUDD M95	2X	21932	64 -	82	16.5	95	79	33
TRUJAN T1170	2X	20480	61 -	78	14.5 -	90	77	33
TRUJAN T1230	2X	22078	73	94	15.8	92	78	34
Group Average		21001	81	104	15.6	91	76	33
L.S.D. (.05)			18					
Experiment Average		21856	77	99	14.5	88	75	32
L.S.D. (.05)			20					

Cooperators: G. D. Jones Plot Size: 25' x 3', single-row plots, 4 replications Planting Date: May 5-6, 1980 Harvest Date: Rep 1 - 10-15-80; Rep 2 and 3 - 10-16-80, Rep 4 - 10-17-80 Fertilization: 1200 lbs/A 10-10-10 at planting applied 60%N/A liquid nitrogen as sidedress Herbicides: 2 lbs/A Aatrex; 2 pints/A Dual applied May 1, 1980 Growing Conditions: Lack of adequate moisture during June and July was the limiting factor affecting corn production in this area.

TABLE 13. CORN PERFORMANCE, ORANGE TWO YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
BECK 44X	23579	88	82	16.1	82	77	32
BECK 58X	22465	85	79	15.9	91	78	32
DEKALB XL32AA	24135	92	86	15.8	90	77	35
DENNIS DS6	22223	81-	76	15.7	91	77	34
JACQUES JX177	23554	80-	75	16.2	91	78	33
PIONEER BRAND 3535	24160	95+	89	16.3	91	75	33
PIONEER BRAND 3591	24112	83-	77	17.3+	97	75	31
PKAIEIE STREAM SX44	23531	83	83	16.3	96	76	32
SOUTHERN STATES SS570	24039	92	86	16.0	80	75	32
TAYLOR-EVANS 6925	23046	91	85	15.3-	86	76	35
THOR-O-BRED SX400	23724	89	83	15.0-	81	75	30
TODD M53	23772	97+	91	17.3+	76	76	33
Group Average	23528	88	83	16.1	88	76	33
L.S.D. (.05)		15					
MEDIUM MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
AUGUSTA A300	17696	112	105	17.0-	77	80	41
AUGUSTA A310	21545	118+	110	18.2	94	78	40
BECK 65X	21594	108	101	17.7	87	78	40
DEKALB XL61	21521	116	109	18.2	89	76	35
DENNIS DS37	21110	117	110	17.7	87	78	40
DENNIS DS37A	21473	116	108	18.0	91	78	37
DENNIS DS47A	21691	113	106	16.5	89	78	33
FUNK'S G-4520	20020	112	104	17.2-	87	78	38
FUNK'S G-4606	21303	115	108	18.2	90	77	39
JACQUES JX180	21230	118+	110	17.3	85	76	40
JACQUES JX227	21981	120+	112	17.9	91	77	40
KENWORTHY KL-X55	21497	121+	113	18.3+	89	77	41
KENWORTHY KL-X68LHU	21207	117	109	17.8	90	77	39
NORTHROP KING PX74	21013	110	103	17.7	85	78	39
PAG SX333	21981	108	101	17.4	79	76	39
PAG SX351	21570	102-	96	18.4+	96	76	38
PIONEER BRAND 3369A	21207	110	103	18.5+	94	78	39
SOUTHERN STATES SS695	22175	101-	94	17.7	91	77	34
TAYLOR-EVANS 6945	19464	91-	85	18.4+	86	78	36
TAYLOR-EVANS 6992	21303	103-	96	17.6	88	78	38
THOMPSON 221	21279	103-	96	18.2	87	80	40
THOR-O-BRED SX544	19778	111	104	17.3	90	79	41
TODD MX73A	21013	102-	95	17.0-	87	77	40
TROJAN TXS115A	20940	104	98	18.4+	89	78	39
Group Average	21066	110	103	17.8	88	78	39
L.S.D. (.05)		15					
MID-FULL MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
AUGUSTA A327	21594	127+	119	20.1+	90	78	39
BECK 92X	21594	121	113	19.1	85	79	41
COKER 16	20867	119	111	18.4	88	77	35
COKER 19	20964	113	106	17.5-	83	78	39
COKER 19A	21230	118	110	19.1	91	79	40
COKER 22	21352	121	113	19.8+	88	78	38
DEKALB XL71	19730	102-	95	18.6	93	79	39
DENNIS DS39	22272	130+	122	18.9	91	77	35
FUNK'S G-4636	21788	121	113	19.2	94	76	36
FUNK'S G-4709	21279	107	100	18.8	91	81	37
JACQUES JX247	21207	115	108	20.2+	90	79	39
MIDSTATES MS747A	21085	119	112	17.7-	87	78	40
MIDSTATES MS900	21642	111	104	18.3	93	77	35
NORTHROP KING PX87	21497	116	109	20.1+	89	80	38
PIONEER BRAND 3134	22175	113	106	19.6	96	79	35
SOUTHERN STATES SS727	20698	102-	95	18.4	92	79	39
SOUTHERN STATES SS730	21933	105	98	18.2	87	78	36
TAYLOR-EVANS 6963	21400	91-	85	19.4	91	78	33
TAYLOR-EVANS 6995	20577	110	103	17.8-	90	78	39
TAYLOR-EVANS 6995-A	19100	102-	96	18.3	94	79	41
THOR-O-BRED SX650	21691	108	101	19.0	87	78	36
TODD M95	19875	91-	85	20.2+	94	80	36
Group Average	21161	112	105	19.0	90	78	38
L.S.D. (.05)		17					
Experiment Average	21611	106	100	17.9	89	78	37
L.S.D. (.05)		16					

TABLE 14. CORN PERFORMANCE, ORANGE THREE YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
BECK 44X	24289	98	83	15.7	88	76	32
PIONEER BRAND 3535	23998	105	89	16.2	93	74	36
PIONEER BRAND 3591	23743	84-	72	16.4	98	74	33
TAYLOR-EVANS 6925	23982	100	85	14.9-	90	75	35
Group Average	24003	97	83	15.8	92	75	34
L.S.D. (.05)		12					
MEDIUM MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
AUGUSTA A300	19205	117	100	17.4	80	79	42
BECK 65X	22868	122	104	18.3	90	78	41
DENNIS DS37	21723	127+	108	18.3	91	78	42
DENNIS DS47A	22352	122	104	16.4-	92	77	35
FUNK'S G-4520	19990	122	103	17.7	92	77	39
FUNK'S G-4606	21658	123	105	18.4	93	76	41
KENWORTHY KL-X55	22998	133+	113	19.0+	92	77	42
NORTHROP KING PX74	21658	125	106	17.8	89	77	41
PAG SX333	22352	119	101	17.9	85	76	41
PIONEER BRAND 3369A	22320	120	102	19.6+	95	77	42
SOUTHERN STATES SS698	22433	112	95	17.4	94	76	35
TAYLOR-EVANS 6945	20722	102-	87	18.2	90	78	37
TAYLOR-EVANS 6992	22013	110-	94	17.7	91	78	40
THOMPSON 221	22417	111-	94	18.3	84	79	43
TODD MX73A	20593	113	96	17.0-	91	76	41
Group Average	21686	119	101	17.9	90	77	40
L.S.D. (.05)		12					
MID-FULL MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
DENNIS DS39	22836	136+	116	19.7	94	76	36
FUNK'S G-4636	22320	131	112	19.8	96	76	37
MIDSTATES MS747A	20883	123	104	18.2-	90	78	42
MIDSTATES MS900	21690	119	102	18.7	94	77	37
NORTHROP KING PX87	22272	136+	116	20.9+	94	79	40
PIONEER BRAND 3134	22723	125	106	20.1+	97	79	37
SOUTHERN STATES SS727	21158	115	98	18.6	94	78	41
SOUTHERN STATES SS730	21884	114	97	18.5	90	78	38
TAYLOR-EVANS 6968	22207	99-	85	19.2	93	76	36
TAYLOR-EVANS 6995	21997	125	106	18.3-	93	77	41
TAYLOR-EVANS 6995-A	20674	121	103	18.7	95	79	42
Group Average	21876	122	104	19.2	93	78	39
L.S.D. (.05)		12					
Experiment Average	22064	117	100	18.1	91	77	39
L.S.D. (.05)		12					

TABLE 15. CORN PERFORMANCE, BLACKSTONE 1980

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
EARLY MATURITY								
DEKALB XL32AA	2X	17865	91	77	13.1	99	83	31
DEKALB XL57	2X	17575	100	85	15.3+	99	83	31
MASTER FARMER MF-500	2X	20044	84-	71	12.9	100	82	30
MIGRO-NAPB HP470	2X	21206	123+	105	13.9	100	81	27
PIONEER BRAND 3535	2X	20335	103	88	15.0+	100	83	32
PIONEER BRAND 3572	2X	22659	118+	100	13.3	100	81	31
PIONEER BRAND 3591	M2X	22223	79-	67	12.8	100	80	25
PIONEER BRAND 35570	2X	19754	97	83	13.7	100	83	29
SOUTHERN STATES 55570	2X	16849	87	74	13.1	100	82	29
TAYLOR-EVANS 6925	2X	21061	97	82	12.9	99	82	29
THOR-O-BRED SX510	2X							
Group Averages		19957	98	83	13.6	99	82	29
L.S.D. (.05)		16						
MEDIUM MATURITY								
BECK 65X	2X	19318	121	103	14.9	100	83	37
DEKALB XL61	2X	18592	93-	79	14.8	100	80	27
DEKALB XL67	2X	17575	115	98	15.6	100	85	37
FUNK'S G-4507A	2X	20335	126	108	14.7	100	83	37
FUNK'S G-4606	M2X	21497	128+	110	15.8	100	81	35
MASTER FARMER MF-600	2X	18011	110	94	17.1	100	80	31
MASTER FARMER MF-650	2X	16446	118	101	19.7+	100	83	36
MIGRO-NAPB HP59	2X	17430	104	89	15.3	100	82	36
MIGRO-NAPB M-0505	2X	20480	124	105	15.2	100	82	35
MIGRO-NAPB SPX49	2X	22078	120	103	13.2-	100	82	36
MIGRO-NAPB SPX77	2X	18882	106	91	17.0	99	82	35
MUNCY CHIEF SX776	2X	19173	109	93	17.0	99	83	37
MUNCY CHIEF SX777	2X	20480	109	93	15.6	100	82	37
O'S GULD SX5500A	2X	20480	126	108	15.2	99	82	35
PIONEER BRAND 3320	M2X	21932	146+	125	15.7	99	82	36
PIONEER BRAND 3368A	M2X	19463	131+	112	17.0	100	84	37
PIONEER BRAND 3369A	2X	20044	118	101	15.6	100	82	35
SOUTHERN STATES 55693	SPX	21206	92-	78	14.9	100	82	29
TAYLOR-EVANS 6945	2X	14670	88-	75	14.8	98	86	32
TAYLOR-EVANS 6992	2X	16268	93-	79	14.2-	100	83	35
THOR-O-BRED SX544	2X	16849	100	85	15.1	100	83	35
THOR-O-BRED SX545	2X	19754	118	100	16.5	100	82	36
USS AGRI-CHEMICALS USS0555A	3X	19027	107	91	15.5	100	81	35
USS AGRI-CHEMICALS USS1515	2X	18446	119	101	18.9+	100	84	35
Group Average		19957	113	97	15.8	99	82	35
L.S.D. (.05)			18					

TABLE 15. CORN PERFORMANCE, BLACKSTONE 1980 (conti.)

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST WATER	PERCENT ERECT	DAYS TO EAR SILK	HEIGHT
MID-FULL MATURITY								
BECK 89X	2X	18737	131	112	14.9-	100	82	34
COKER 16	M2X	20770	118	101	16.1	100	82	29
COKER 19	2X	20916	127	109	13.5-	100	81	37
COKER 19A	M2X	21206	141	121	17.5	99	82	37
COKER 21	2X	19608	133	114	16.8	100	82	36
COKER 22	3X	21061	107-	91	17.9	99	83	34
DEKALB XL70	2X	21061	160+	137	14.3-	99	82	42
DEKALB XL71	2X	21061	132	112	16.2	100	82	33
FUNK'S G-4611	M2X	15687	102	87	16.9	100	85	37
JACQUES JX247	2X	15687	115	98	19.8+	100	86	37
LONGEST 5X4	M2X	19399	127	108	16.0	99	83	39
MCCURDY 7440	2X	20480	148	126	15.4	100	83	37
MCCURDY 7787	2X	19463	113	96	18.6	99	82	32
MCCURDY 79-2	2X	22368	116	99	16.2	100	82	34
MCCURDY 84AA	2X	19754	134	114	17.9	100	83	38
MIGRO-NAPB HP87	2X	21497	137	117	16.4	98	83	36
MIGRO-NAPB M-0707	2X	19463	133	113	18.2	100	83	38
MIGRO-NAPB M-6646	2X	21061	102-	87	15.9	100	80	29
MIGRO-NAPB M-7072	2X	19754	123	105	17.6	100	84	34
PIONEER BRAND 3160	M2X	22513	157+	134	21.8+	100	84	41
PIONEER BRAND 3184	2X	20335	135	115	16.6	100	83	35
SOUTHERN STATES 55727	2X	20916	117	100	16.5	100	83	38
SOUTHERN STATES 55775	2X	20480	95-	81	16.2	100	81	26
SOUTHERN STATES 55915	2X	19318	114	97	16.1	99	83	36
TAYLOR-EVANS 6968	2X	20189	82-	70	15.1	99	82	25
TAYLOR-EVANS 6995	2X	20625	126	108	14.5-	100	82	36
TAYLOR-EVANS 6995-A	2X	17430	110	94	13.7-	100	84	38
THOR-O-BRED SX600	2X	20335	140	120	15.9	100	84	37
THOR-O-BRED SX650	2X	19608	125	106	17.4	100	84	36
TUDD M95	2X	21206	140	119	17.0	100	83	38
USS AGRI-CHEMICALS USS2020	2X	20916	126	107	18.1	100	83	36
USS AGRI-CHEMICALS USS2315	2X	20625	134	115	17.7	100	82	40
Group Averages		20126	125	107	16.7	99	83	35
L.S.D. (.05)			20					
Experiment Average		19758	117	100	15.9	99	82	34
L.S.D. (.05)			18					

Cooperators: W. B. Wilkinson, R. R. Wilmouth, Southern Piedmont Research and CEC Plot Size: 25' x 3' single-row plots, 4 replications Planting Date: April 17, 1980 Harvest Date: September 8-10, 1980 Fertilization: 1100 lbs/A 10-10-10; 250 lbs/A 34% N Ammonium nitrate as sidedress Herbicides: Sutan + Bladex Growing Conditions: Conditions ranked among the hottest, driest growing seasons on record. Six inches of irrigation water reduced, but did not negate the effects of prolonged drought. Early season wire worm and flea beetle infestations reduced stands in some cases.

TABLE 16. CORN PERFORMANCE, BLACKSTONE TWO YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
DEKALB XL32AA	20988	110	91	14.9	96	33
PIONEER BRAND 3535	22078	115 +	95	16.9 +	97	34
PIONEER BRAND 3591	23167	78 -	64	15.0	95	27
SOUTHERN STATES SS570	21497	97	80	15.3	94	30
TAYLOR-EVANS 6925	19681	101	84	14.5	98	32
Group Average	21482	100	83	15.3	96	31
L.S.D. (.05)		15				

MEDIUM MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
BECK 65X	20698	129	107	16.9	95	39
FUNK'S G-4606	21570	135 +	112	17.6	99	37
U'S GOLD SX5500A	21206	132	109	16.7	92	37
PIONEER BRAND 3369A	19972	132	110	17.9	97	37
SOUTHERN STATES SS698	21424	108	89	17.2	96	32
TAYLOR-EVANS 6945	16631	95 -	78	16.7	93	33
TAYLOR-EVANS 6992	18229	109	90	16.5	93	37
THOR-O-BRED SX544	18665	118	98	16.7	93	37
USS AGRI-CHEMICALS USS0555A	20189	119	99	16.9	98	37
USS AGRI-CHEMICALS USS1515	19391	136 +	113	19.3 +	97	36
Group Average	19797	121	101	17.2	95	36
L.S.D. (.05)		14				

MID-FULL MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
COKER 16	21351	125	104	17.7	98	32
COKER 19	20698	110 -	91	15.7 -	97	36
COKER 19A	21352	128	106	18.7	94	37
COKER 22	21206	119	98	19.2	96	36
FUNK'S G-4611	16486	102 -	84	17.8	96	38
JACQUES JX247	17357	124	103	20.1 +	98	37
LONGEST SX4	20625	138	114	17.8	97	40
MCCURDY 7440	21352	151 +	125	17.0	96	38
MCCURDY 7787	20698	121	100	19.9 +	95	35
MCCURDY 84AA	19827	130	107	19.1	97	38
PIONEER BRAND 3184	21207	146 +	121	18.9	99	36
SOUTHERN STATES SS727	21061	123	102	17.1	96	38
TAYLOR-EVANS 6968	18446	91 -	75	17.4	98	29
TAYLOR-EVANS 6995	20771	121	100	16.6 -	97	37
TAYLOR-EVANS 6995-A	19028	124	103	16.6 -	99	38
THOR-O-BRED SX650	20262	133	110	19.4 +	97	37
TODD M95	21134	147 +	122	18.7	96	38
Group Average	20056	125	104	18.1	97	36
L.S.D. (.05)		18				
Experiment Average	20197	120	100	17.4	96	35
L.S.D. (.05)		17				

TABLE 17. CORN PERFORMANCE, BLACKSTONE THREE YEAR AVERAGES.

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
PIONEER BRAND 3535	22029	114	98	19.5	95	35
PIONEER BRAND 3591	22804	82 -	70	17.2 -	95	29
TAYLOR-EVANS 6925	20528	104	89	21.0	95	33
Group Average	21787	100	86	19.2	95	32
L.S.D. (.05)						

MEDIUM MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
BECK 65X	21158	126	108	19.4	91	38
FUNK'S G-4606	21255	131	113	19.9	96	36
U'S GOLD SX5500A	21400	135 +	116	19.2	93	39
PIONEER BRAND 3369A	20577	128	110	20.5 +	91	36
TAYLOR-EVANS 6945	18785	98 -	84	18.4 -	91	32
TAYLOR-EVANS 6992	19899	113	97	20.0	87	38
USS AGRI-CHEMICALS USS0555A	20819	118	101	19.1	93	38
Group Average	20556	121	104	19.5	92	37
L.S.D. (.05)						

MID-FULL MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HEIGHT
FUNK'S G-4611	17575	104	90 -	20.3	90	38
PIONEER BRAND 3184	21497	144	124	22.2 +	98	36
SOUTHERN STATES SS727	20141	124	106	19.6	93	37
TAYLOR-EVANS 6968	19511	95	81 -	19.7	95	30
TAYLOR-EVANS 6995	21109	121	104	18.8 -	90	36
Group Average	19967	118	161	20.1	93	35
L.S.D. (.05)						
Experiment Average	20605	116	100	19.6	93	35
L.S.D. (.05)						

TABLE 18. CORN PERFORMANCE, BLACKSBURG 1980

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HEIGHT
<u>EARLY MATURITY</u>								
DEKALB XL32AA	2X	23046	162+	105	21.6	98	83	41
DEKALB XL57	2X	23046	159	103	23.4	96	84	42
MIGRO-NAPB HP470	2X	21884	166+	107	23.7	99	84	39
MUNCY CHIEF SX500	2X	22852	140	90	20.0-	95	82	42
MUNCY CHIEF SX660	2X	22271	149	96	19.6-	94	82	43
MUNCY CHIEF SX662	2X	22078	153	99	25.6+	99	85	42
NORTHROP KING PX37	2X	23240	129-	83	20.1-	96	83	41
NORTHROP KING PX39	2X	23046	149	96	21.1-	98	83	40
PIONEER BRAND 3535	2X	24983	163+	105	22.7	98	84	44
PIONEER BRAND 3572	2X	24014	159	103	21.4	98	84	45
PRAIRIE STREAM SX44	2X	22465	140	90	22.3	96	83	40
PRAIRIE STREAM SX50	2X	21690	156	101	24.0+	98	85	36
SOUTHERN STATES SS522	2X	23240	145	94	21.2	94	84	40
SOUTHERN STATES SS570	2X	23240	137	88	20.3	95	84	33
TAYLOR-EVANS 6925	2X	21884	145	94	20.9	97	83	39
THOR-O-BRED SX510	2X	24208	151	98	20.5	98	83	40
TODD M53	2X	20141	135-	88	24.3+	94	85	42
TODD M5505	2X	22271	171+	111	25.0+	100	85	41
TROJAN T1058	2X	20335	122-	79	21.1	100	80	38
Group Averages		22628	149	96	22.0	97	83	41
L.S.D. (.05)				21				

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HEIGHT
<u>MEDIUM MATURITY</u>								
AUGUSTA A300	2X	15687	127-	82	23.4-	98	88	46
AUGUSTA A310	M2X	22271	179+	116	26.7	97	87	43
AUGUSTA A311	2X	21497	185+	120	25.5	99	85	45
BECK 65X	2X	20916	195+	126	25.1	96	86	47
BECK 75X	2X	19173	142	92	25.2	89	84	40
DEKALB XL61	2X	20916	154	100	24.1-	96	83	36
DEKALB XL67	2X	20722	162	105	25.4	96	88	52
FUNK'S G-4606	M2X	21109	155	100	26.9	97	85	44
KENWORTHY KL-X55	3X	21690	192+	124	27.8+	94	87	50
KENWORTHY KL-X68LHO	2X	21884	156	101	26.3	93	87	47
LONGEST 3X1	M3X	19754	132-	85	25.9	94	87	47
MIGRO-NAPB HP58	2X	18592	136-	88	26.4	99	85	45
MIGRO-NAPB M-0505	2X	19947	158	102	26.1	96	86	43
MIGRO-NAPB SPX49	2X	21690	163	105	23.5-	98	89	45
MIGRO-NAPB SPX77	2X	19754	160	103	26.8	94	88	42
NORTHROP KING PX74	2X	20141	173	112	25.4	96	85	45
NORTHROP KING PX73	2X	16849	141	91	27.5+	98	89	47
NORTHROP KING PX79	2X	20916	167	108	25.9	99	86	45
PIONEER BRAND 3320	M2X	21884	159	103	28.5+	100	89	46
PIONEER BRAND 3369A	2X	22271	179+	116	25.3	99	84	45
PRAIRIE STREAM SX66	2X	19560	145	94	25.8	100	84	43
PRAIRIE STREAM SX558	2X	21497	162	105	27.2+	99	87	42
TAYLOR-EVANS 6945	2X	18398	130-	84	23.9-	99	87	40
TAYLOR-EVANS 6992	2X	17042	136-	88	24.8	90	85	45
THOMPSON 221	2X	20916	150	97	27.7+	97	88	49
THOR-O-BRED SX544	2X	19947	145	94	25.3	93	86	40
THOR-O-BRED SX545	2X	22078	165	107	25.7	96	85	44
TODD MX73A	2X	20722	150	97	25.1	96	87	44
TROJAN TXS113	2X	17236	134-	86	25.0	97	83	39
TROJAN TXS115A	2X	20722	157	102	25.9	96	86	47
Group Average		20192	156	101	25.8	96	86	44
L.S.D. (.05)				25				

TABLE 18. CORN PERFORMANCE, BLACKSBURG 1980 (conti.)

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HEIGHT
<u>MID-FULL MATURITY</u>								
AUGUSTA A327	2X	20722	156	101	33.8+	94	89	45
BECK 89X	2X	20916	174+	112	29.4	97	88	43
BECK 92X	2X	20722	164	106	30.0	95	89	48
COKER 16	M2X	20528	145	94	26.0-	99	84	39
COKER 19	2X	18785	153	99	25.2-	99	86	41
COKER 19A	M2X	21884	162	105	28.8	98	86	45
COKER 21	2X	16655	127-	82	36.1+	98	88	43
COKER 22	3X	21884	144	93	34.7+	97	89	44
DEKALB XL70	2X	21690	179+	116	28.3	99	89	54
DEKALB XL71	2X	22078	169+	109	27.9	100	89	46
FUNK'S G-4636	2X	21690	162	104	28.7	97	87	45
JACQUES JX247	2X	20916	149	96	35.2+	95	90	46
KENWORTHY KL-X71	2X	16074	132-	85	28.7	98	85	42
MCCURDY 8150	2X	21884	158	102	33.4+	98	89	52
MIGRO-NAPB HP87	2X	22078	169+	109	33.9+	97	89	47
MIGRO-NAPB M-0707	2X	18785	153	99	29.0	94	89	45
MIGRO-NAPB M-6666	2X	21884	145	94	25.8-	99	85	38
MIGRO-NAPB M-7072	2X	20528	156	101	28.2	99	87	39
NORTHROP KING PX95	2X	21497	157	101	37.1+	98	92	55
PIONEER BRAND 3160	M2X	21303	170+	110	31.3	97	89	53
PIONEER BRAND 3184	2X	20916	166	107	29.2	100	90	43
PRAIRIE STREAM SX73	2X	21690	166	107	30.3	98	89	44
SOUTHERN STATES SS727	2X	20141	160	104	27.1	97	87	47
SOUTHERN STATES SS730	2X	17817	134-	86	26.5-	95	86	46
SOUTHERN STATES SS775	2X	18979	131-	85	27.1	99	86	43
SOUTHERN STATES SS915	2X	19173	150	97	30.3	98	89	46
TAYLOR-EVANS 6968	2X	17236	129-	83	25.7-	99	85	40
TAYLOR-EVANS 6995	2X	19173	159	103	25.5-	99	86	44
TAYLOR-EVANS 6995-A	2X	16849	148	96	26.4-	99	87	45
THOMPSON 219A	4X	21497	167	108	28.8	96	87	46
THOR-O-BRED SX600	2X	21303	173+	112	33.4+	96	89	47
THOR-O-BRED SX650	2X	20528	159	103	28.2	98	87	40
TODD M95	2X	19173	146	94	33.8+	94	89	49
TROJAN T1170	2X	18592	142	91	29.0	97	87	44
TROJAN T1230	2X	20335	156	101	32.8	95	99	44
Group Average		20168	155	100	29.9	97	88	45
L.S.D. (.05)				26				

Experiment Average	20733	154	100	26.6	97	86	44
L.S.D. (.05)			24				

Cooperators: H. S. Aycock, C. O. Perry, D. E. Brann, E. R. Davis, Jr., R. L. Harrison
Plot Size: 30' x 2.5' single-row plots, 4 replications Planting Date: April 25, 1980
Harvest Date: October 3 and 6, 1980 Fertilization: 4-22-80:1500 #/A lime; 370 lbs/A
0-44-0 and 0-0-60 in Reps 1-3, Rep 4 - 150 lbs/A 0-44-0 and 0-0-60; At planting: 90 lbs/A
liquid N on Rep 1-3, Rep 4:55 lbs N/A liquid N, On 6-19-80: 67 lbs/A liquid N on Reps 1-3,
100 lbs/A liquid N on Rep 4 as sidedress Soil Test: Reps 1-3, pH=6, P=M+, K=M-, Ca=M-,
Mg=M+; Rep 4, pH=6.7, P=M-, K=M-, Ca=M-, Mg=M- Herbicides: 1.5 lbs/A AAtrex, 1.5 qts/A
Lasso Growing Conditions: Growing conditions were generally good. One replication was
discarded due to vandalism.

TABLE 19. CORN PERFORMANCE, BLACKSBURG TWO YEAR AVERAGES

<u>EARLY MATURITY</u>	<u>PLANTS/ ACRE</u>	<u>YIELD BU/A</u>	<u>RELATIVE YIELD</u>	<u>HARVEST MOISTURE</u>	<u>PERCENT ERECT</u>	<u>EAR HEIGHT</u>
PIONEER BRAND 3535	24693	166 +	111	22.2 +	91	45
SOUTHERN STATES SS522	23603	145	97	20.2	83	40
SOUTHERN STATES SS570	23531	138	92	19.3	82	35
TAYLOR-EVANS 6925	22489	145	97	19.8	84	41
Group Average	23579	149	99	20.4	85	40
L.S.D. (.05)		11				

<u>MEDIUM MATURITY</u>	<u>PLANTS/ ACRE</u>	<u>YIELD BU/A</u>	<u>RELATIVE YIELD</u>	<u>HARVEST MOISTURE</u>	<u>PERCENT ERECT</u>	<u>EAR HEIGHT</u>
AUGUSTA A311	21352	166	111	24.2	90	45
BECK 65X	21497	174 +	116	24.4	92	45
BECK 75X	20553	141	94	24.8	74	39
DEKALB XL61	21134	154	103	24.0	87	37
FUNK'S G-4606	21448	150	100	25.5	89	44
KENWORTHY KL-X55	21884	179 +	120	27.6 +	84	47
KENWORTHY KL-X68LHD	21836	149	99	26.6 +	82	46
LONGEST 3X1	20916	126 -	84	25.4	76	45
PIONEER BRAND 3369A	22392	168 +	112	24.9	88	44
TAYLOR-EVANS 6945	20020	135 -	90	23.4 -	90	40
TAYLOR-EVANS 6992	19052	135 -	90	24.3	81	43
THOMPSON 221	21497	149	99	25.7	59	47
THOR-O-BRED SX544	19487	135 -	90	24.5	89	41
TROJAN TXS115A	21400	149	99	24.9	89	45
Group Average	21033	151	101	25.0	84	43
L.S.D. (.05)		11				

<u>MID-FULL MATURITY</u>	<u>PLANTS/ ACRE</u>	<u>YIELD BU/A</u>	<u>RELATIVE YIELD</u>	<u>HARVEST MOISTURE</u>	<u>PERCENT ERECT</u>	<u>EAR HEIGHT</u>
BECK 92X	20746	160 +	107	28.4	76	48
COKER 16	21448	145	97	25.1	81	40
COKER 19	20141	147	98	24.2 -	92	42
COKER 19A	21836	159 +	106	27.3	85	44
COKER 22	21836	134	89	31.2 +	86	45
DEKALB XL71	22005	164 +	110	27.1	94	43
FUNK'S G-4636	21739	150	100	27.6	88	44
PIONEER BRAND 3184	21352	138	92	27.3	88	43
SOUTHERN STATES SS727	20601	152	101	25.3	91	45
SOUTHERN STATES SS730	19367	136 -	91	25.3	85	44
TAYLOR-EVANS 6968	17987	123 -	82	24.7	83	40
TAYLOR-EVANS 6995	20626	155	104	24.4 -	90	44
TAYLOR-EVANS 6995-A	19173	152	102	25.8	86	44
THOR-O-BRED SX650	21158	150	100	28.3	74	42
Group Average	20715	148	99	26.6	86	43
L.S.D. (.05)		12				
Experiment Average	21212	149	100	25.1	85	43
L.S.D. (.05)		12				

TABLE 20. CORN PERFORMANCE, BLACKSBURG THREE YEAR AVERAGES

<u>EARLY MATURITY</u>	<u>PLANTS/ ACRE</u>	<u>YIELD BU/A</u>	<u>RELATIVE YIELD</u>	<u>HARVEST MOISTURE</u>	<u>PERCENT ERECT</u>	<u>EAR HEIGHT</u>
PIONEER BRAND 3535	23434	145	104	22.8	93	42
TAYLOR-EVANS 6925	22303	127	92	20.8	84	39
Group Average	22853	136	98	21.8	89	41
L.S.D. (.05)		10				

<u>MEDIUM MATURITY</u>	<u>PLANTS/ ACRE</u>	<u>YIELD BU/A</u>	<u>RELATIVE YIELD</u>	<u>HARVEST MOISTURE</u>	<u>PERCENT ERECT</u>	<u>EAR HEIGHT</u>
BECK 65X	21110	151	109	24.9	92	43
KENWORTHY KL-X55	21706	163 +	118	28.1 +	86	44
PIONEER BRAND 3369A	22045	152	110	25.2	86	42
TAYLOR-EVANS 6992	20109	125 -	90	24.7	84	41
THOMPSON 221	21352	137	99	25.3	68	44
TROJAN TXS115A	21432	137	99	25.5	92	42
Group Average	21292	144	104	25.6	85	43
L.S.D. (.05)		11				

<u>MID-FULL MATURITY</u>	<u>PLANTS/ ACRE</u>	<u>YIELD BU/A</u>	<u>RELATIVE YIELD</u>	<u>HARVEST MOISTURE</u>	<u>PERCENT ERECT</u>	<u>EAR HEIGHT</u>
PIONEER BRAND 3184	21400	126	91	28.0 +	91	40
SOUTHERN STATES SS727	20125	134	97	25.5	92	42
TAYLOR-EVANS 6968	19157	117 -	85	25.0	88	38
TAYLOR-EVANS 6995	20967	141 +	102	24.9	91	42
Group Average	21387	130	94	25.9	91	41
L.S.D. (.05)		11				
Experiment Average	21250	138	100	25.1	88	42
L.S.D. (.05)		11				

TABLE 21. CORN PERFORMANCE, SMYTH COUNTY 1980

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT
EARLY MATURITY						
BECK 60X	2X	23433	167 +	109	19.2 +	95
DEKALB XL32AA	2X	24014	166 +	108	18.5	98
DEKALB XL57	2X	23627	146	95	18.1	89
LONGEST SX2	M2X	23433	146	95	19.1 +	97
MIGRO-NAPB HP470	2X	23046	175 +	114	19.4 +	99
PIONEER BRAND 3535	2X	24014	151	98	18.4	97
PIONEER BRAND 3572	2X	23821	136	89	17.5	91
PIONEER BRAND 3591	M2X	24014	126 -	82	17.8	98
SOUTHERN STATES SS522	2X	23821	142	92	17.2	79
SOUTHERN STATES SS570	2X	22852	140	91	16.2	91
TAYLOR-EVANS 5925	2X	22852	141	92	16.8	94
THOR-O-BRED SX510	2X	24595	144	94	16.9	87
TROJAN T105H	2X	22852	141	92	17.6	94
Group Average		23567	148	96	17.8	93
L.S.D. (.05)			25			

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT
MEDIUM MATURITY						
DEKALB XL61	2X	22271	130	84	20.8	97
DEKALB XL67	2X	20141	145	94	20.6	96
KENWORTHY KL-X55	3X	21690	170 +	111	24.1 +	94
KENWORTHY KL-X68LHO	2X	22078	163 +	106	22.5	99
MIGRO-NAPB HP58	2X	20916	137	89	21.1	98
MIGRO-NAPB M-0505	2X	21109	158 +	103	20.9	96
MIGRO-NAPB SPX49	2X	21690	149	97	20.3 -	96
MIGRO-NAPB SPX77	2X	22078	156	102	22.3	97
MUNCY CHIEF SX776	2X	21109	153	99	22.5	98
MUNCY CHIEF SX777	2X	20335	114 -	74	20.5	97
NORTHROP KING PX78	2X	22078	158 +	103	22.9 +	96
PIONEER BRAND X7448	M2X	22271	131	85	20.4 -	100
PIONEER BRAND J320	M2X	21884	157	102	22.5	98
PIONEER BRAND 3369A	2X	20335	129	84	21.8	95
SOUTHERN STATES SS698	SPX	22271	115 -	75	19.9 -	97
TAYLOR-EVANS 6945	2X	22078	131	85	19.8 -	93
TAYLOR-EVANS 6992	2X	21497	135	88	21.0	95
THOMPSON 221	2X	21109	134	87	21.6	85
THOR-O-BRED SX544	2X	21303	136	88	22.0	98
THOR-O-BRED SX545	2X	21303	159 +	103	22.2	97
TROJAN TXS115A	2X	21109	141	92	22.6	97
Group Average		21460	143	93	21.5	96
L.S.D. (.05)			20			

TABLE 21. CORN PERFORMANCE, SMYTH COUNTY 1980 (conti.)

	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST WATER	PERCENT ERECT
MID-FULL MATURITY						
BECK 88X	2X	20141	177	115	24.5	98
BECK 89X	2X	20141	178	116	24.8	100
COKER 16	M2X	21497	149	97	19.6	98
COKER 19	2X	20335	150	98	21.9	85
COKER 19A	M2X	20335	172	112	23.8	98
COKER 21	2X	20722	177	115	26.4 +	95
COKER 22	3X	22271	162	105	22.9	95
DEKALB XL70	2X	22078	186 +	121	22.8	99
DEKALB XL71	2X	22659	188 +	122	23.5	98
FUNK'S G-4636	2X	21303	142	92	22.9	91
FUNK'S G-4689	2X	22659	201 +	131	23.1	97
FUNK'S G-4776	3X	22078	157	102	25.3	99
FUNK'S G-5666	4X	21109	137	89	23.5	79
FUNK'S G-5757	4X	20916	168	109	25.0	98
JACQUES JX247	2X	21884	182 +	119	25.5	94
KENWORTHY KL-X71	2X	20528	147	96	23.5	96
MIGRO-NAPB HP87	2X	21884	179	117	24.5	97
MIGRO-NAPB M-0707	2X	22271	178	116	22.7	90
MIGRO-NAPB M-6666	2X	22078	137 -	89	20.5 +	96
MIGRO-NAPB M-7072	2X	20916	155	101	21.3	94
NORTHROP KING PX87	2X	21109	178	116	25.4	79
NORTHROP KING PX95	2X	21497	165	107	29.6 +	99
PIONEER BRAND 3160	M2X	21884	153	99	23.5	98
PIONEER BRAND 3184	2X	21303	158	103	23.5	100
SOUTHERN STATES SS710	3X	19366	128 -	83	18.5 -	93
SOUTHERN STATES SS730	2X	20722	153	99	23.0	85
SOUTHERN STATES SS775	2X	21497	131	85	21.1 -	92
SOUTHERN STATES SS915	2X	20916	150	98	24.9	87
TAYLOR-EVANS 6968	2X	18785	120 -	78	19.9 -	97
TAYLOR-EVANS 6995	2X	21690	179	116	20.0 -	97
TAYLOR-EVANS 6995-A	2X	19947	156	102	22.0	96
THOMPSON 219A	4X	21884	147	96	23.2	80
THOR-O-BRED SX600	2X	20528	194 +	126	26.3 +	92
THOR-O-BRED SX650	2X	19173	125	81	23.2	91
TROJAN T1170	2X	20916	132 -	86	23.9	96
TROJAN T1230	2X	21497	194 +	127	26.7 +	96
Group Average		21125	161	105	23.4	94
L.S.D. (.05)			34			
Experiment Average		21679	153	100	21.8	94
L.S.D. (.05)			20			

Cooperators: E. R. Scyphers, Jr. and Hugh M. Jones Plot Size: 25' x 3' single-row plots, 4 replications Planting Date: May 5, 1980 Harvest Date: October 9, 1980 Fertilization: 5-5-80: 60 lbs muriate of potash, broadcast, 90 lbs/A liquid nitrogen band application; 6-16-80: 60 lbs/A liquid nitrogen as sidedress Herbicides: 1.5 lbs/A AAtrex; 1.5 qts/A Lasso applied at planting Growing Conditions: In general SW Virginia had adequate rainfall for corn production. Moderate moisture stress did occur following silking period in early August. One replication was discarded due to a weed problem.

TABLE 22. CORN PERFORMANCE, LOUDOUN 1980.

EARLEY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT
BECK 44X	2X	23770	141 -	86	15.7	94
BECK 58X	2X	20625	146	89	17.5	96
BECK 60X	2X	23240	177 +	108	18.1	99
CLARK 719EXP	2X	23821	152	93	15.1 -	96
DEKALB XL32AA	2X	23821	171 +	104	16.6	98
DEKALB XL57	2X	24547	161	99	19.4 +	100
JACQUES JX177	2X	23385	157	96	16.6	99
JACQUES JX179	2X	22949	164	100	19.2 +	98
LONGEST SX2A	2X	24111	177 +	108	20.4 +	99
MIGRO-NAPB HP27	2X	23821	150	92	16.9	98
MIGRO-NAPB HP470	2X	24402	178 +	109	17.4	98
MUNCY CHIEF SX560	2X	22949	154	94	15.2 -	97
MUNCY CHIEF SX660	2X	23966	147	90	15.2 -	92
MUNCY CHIEF SX662	2X	22513	154	94	19.1 +	97
PIONEER BRAND 3535	2X	24256	156	95	18.9 +	99
PIONEER BRAND 3572	2X	24547	147	90	16.1	100
PIONEER BRAND 3591	M2X	24256	142	87	17.1	99
SOUTHERN STATES SS522	2X	21787	142	87	16.2	93
SOUTHERN STATES SS570	2X	23675	139 -	85	15.8	98
TAYLOR-EVANS 6925	2X	23675	150	92	15.0 -	98
THOR-O-BRED SX400	2X	23530	138 -	85	14.8 -	97
THOR-O-BRED SX510	2X	23675	159	97	15.2 -	99
TUDD M53	2X	23385	150	92	18.5	99
TUDD M5505	2X	21932	168 +	103	17.9	100
TROJAN T1058	2X	24402	138 -	85	16.5	94
Group Average		23361	154	94	17.0	97
L.S.D. (.05)			13			
MEDIUM MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT
BECK 65X	2X	22223	173	106	21.1	99
BECK 77X	2X	22659	153	94	19.0	99
DEKALB XL61	2X	21497	154	94	18.7 -	97
DEKALB XL67	2X	21061	161	99	19.4	98
FUNK'S G-4507A	2X	21351	170	104	21.1	97
FUNK'S G-4606	M2X	20625	160	98	19.6	99
JACQUES JX180	2X	21787	172	105	20.8	98
JACQUES JX187A	2X	20916	187 +	115	20.1	100
JACQUES JX227	2X	20916	158	97	21.0	97
MIGRO-NAPB HP5H	2X	21642	157	96	19.3	100
MIGRO-NAPB M-0505	2X	21206	176	108	20.5	99
MIGRO-NAPB SPX49	2X	22223	159	97	19.1	99
MIGRO-NAPB SPX77	2X	21497	182 +	112	23.4 +	100
MUNCY CHIEF SX776	2X	21787	173	106	20.9	98
MUNCY CHIEF SX777	2X	22513	156	96	18.6	98
PIONEER BRAND 3320	M2X	22513	196 +	120	22.0 +	99
PIONEER BRAND 3369A	2X	23094	169	104	19.0	98
TAYLOR-EVANS 6945	2X	19318	133 -	81	16.8 -	98
TAYLOR-EVANS 6992	2X	18156	129 -	79	19.0	99
THOR-O-BRED SX544	2X	20916	153	94	20.6	96
THOR-O-BRED SX545	2X	22368	184 +	112	21.1	99
TUDD MX73A	2X	22223	174	107	20.4	98
TUDD M89	2X	21787	161	99	20.3	96
TROJAN TXS115A	2X	22078	164	101	20.4	98
USS AGRICHEMICALS USS1010	2X	21642	186 +	114	20.5	98
Group Average		21520	166	102	20.1	98
L.S.D. (.05)			19			

TABLE 22. CORN PERFORMANCE, LOUDOUN 1980 (conti.)

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST WATER	PERCENT ERECT
BECK 89X	2X	21206	173 -	106	20.6	98
CLARK 716EXP	2X	19173	141 -	86	19.9	99
CLARK 770A	2X	21351	159	98	21.0	95
CLARK 791EXP	2X	22368	172	105	18.8 -	100
COKER 16	M2X	20625	165	101	18.4 -	99
COKER 19	2X	22078	175	107	20.4	99
COKER 19A	M2X	23385	177	109	21.7	96
COKER 21	2X	17865	162	99	24.1 +	98
COKER 22	3X	22078	165	101	24.0 +	98
DEKALB XL70	2X	20480	194 +	119	21.1	99
DEKALB XL71	2X	21206	172	105	20.7	100
FUNK'S G-4636	2X	22223	170	104	21.6	98
FUNK'S G-4689	2X	22659	169	103	20.6	96
JACQUES JX247	2X	19754	153	94	24.7 +	98
MIDSTATES MS747A	2X	21206	167	102	20.0	97
MIDSTATES MS775	2X	21351	163	100	22.2	98
MIDSTATES MS900	M2X	21206	154	94	20.9	98
MIGRO-NAPB HP87	2X	20625	190 +	116	24.5 +	98
MIGRO-NAPB M-0707	2X	22659	183 +	112	24.2 +	99
MIGRO-NAPB M-6666	2X	22368	160	98	19.5 -	100
MIGRO-NAPB M-7072	2X	22368	157	96	20.5	94
SOUTHERN STATES SS727	2X	21497	166	102	20.7	99
SOUTHERN STATES SS730	2X	21351	149 -	91	21.0	97
SOUTHERN STATES SS775	2X	20480	146 -	90	20.6	99
SOUTHERN STATES SS915	2X	22223	188 +	115	24.9 +	99
TAYLOR-EVANS 6968	2X	15687	111	68	20.0	98
TAYLOR-EVANS 6995	2X	19463	169	104	20.2	99
TAYLOR-EVANS 6995-A	2X	20916	164	100	19.1 -	98
THOR-O-BRED SX600	2X	21497	183 +	112	23.1	96
THOR-O-BRED SX650	2X	21061	154	94	22.1	99
TUDD M95	2X	21787	188 +	115	24.1 +	99
TROJAN T1170	2X	21206	163	100	19.8	99
TROJAN T1230	2X	22078	187 +	115	23.6 +	98
Group Average		21135	166	102	21.5	98
L.S.D. (.05)			19			
Experiment Average		21921	162	100	19.7	98
L.S.D. (.05)			17			

Cooperators: W. J. Brown, R. S. Weber, C. L. Adams, Jr. Plot Size: 30' x 2.5' single-row plots, 4 replications Planting Date: April 24, 1980 Harvest Date: September 30, 1980 Fertilization: 4-24-80; 500 lbs/A 10-10-10, 400 lbs/A 34% N Ammonium nitrate Soil Test: Chester loam and silt loam (this soil is part of a proposed new series, Purcellville silt loam) Plow layer: pH = 6.5; p=H-, K=VH, Ca=H+, Mg=VH, Mn=8.3 ppm, Zn=.75 ppm B2 horizon: pH=5.7, P=H-, K=L, Ca=H+, Mg=VH, Mn=1.4 ppm, Zn=.3 ppm Herbicides: 1.5 lbs/A Aatrex, 1.5 qts/A Lasso Growing Conditions: Some drought stress during early growth period. High water holding capacity of this soil reduced further drought stress during subsequent low rainfall periods. In general, pollination was not affected by high temperatures.

TABLE 23. CORN VIRUS TEST, WINGINA 1980

EARLY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	* VIRUS SCORE	** PERCENT INFECTED PLANTS
MIGRO-NAPB HP27	2X	24402	73	91	14.1	81	2.0	17
MIGRO-NAPB HP470	2X	23966	44	54	14.2	44	4.5	43
Group Average		24184	58	73	14.2	62	3.3	30
L.S.D. (.05)			37					

MEDIUM MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	* VIRUS SCORE	** PERCENT INFECTED PLANTS
DEKALB XL72B	2X	21642	75	94	15.1	84	1.7	13
DEKALB XL72B8	2X	21206	73	92	16.3+	86	2.3	28
FUNK'S G-4525A	2X	21061	89	111	14.9	89	1.1	2
KENWORTHY KL-X73	M2X	20335	89	111	14.8	84	1.2	7
KENWORTHY KL-X73A	3X	21351	84	105	14.9	86	1.4	9
MIGRO-NAPB SPX49	2X	22078	48+	60	14.1-	49	4.6	57
MIGRO-NAPB SPX77	2X	21932	73	92	15.7	74	3.6	54
NORTHROP KING PX79	2X	22078	92	115	14.4-	82	2.0	16
O'S GOLD SX3344	2X	22078	93	116	15.0	82	1.8	16
O'S GOLD SX5255	2X	22078	85	106	14.5	80	2.4	24
O'S GOLD TX311	3X	22078	66-	82	14.9	72	3.3	40
O'S GOLD 5535EXP	2X	13798	67-	84	14.5	89	1.8	17
O'S GOLD 6845EXP	2X	21497	71	88	14.8	66	3.3	40
O'S GOLD 6861EXP	2X	22078	95+	119	15.3	83	2.2	19
PIONEER BRAND X7448	M2X	22078	92	116	17.2+	98	1.2	5
PIONEER BRAND 3364	M2X	22078	90	113	15.7	87	1.9	20
SOUTHERN STATES SS710	3X	21642	95+	119	14.5	89	1.2	3
TAYLOR-EVANS 6945	2X	21787	80	100	14.8	80	2.1	19
THOMPSON 221	2X	21351	93	117	15.4	90	1.4	10
Group Average		21275	82	102	15.1	81	2.1	21
L.S.D. (.05)			18					

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	* VIRUS SCORE	** PERCENT INFECTED PLANTS
BECK 87MDM	M2X	22078	88	110	15.5-	86	1.2	5
BECK 877MDM	M2X	22078	82	103	16.8	84	1.1	2
DEKALB XL394	2X	22078	84	106	19.0+	91	1.2	7
FUNK'S G-4776	3X	22078	80	101	17.8	83	1.5	7
GULFEN HARVEST H-2745	3X	21932	85	106	17.0	79	1.5	12
LONGEST SX6	2X	21932	82	103	14.7-	80	1.1	3
MCCURDY 77-51	2X	22078	76	95	17.3	86	1.4	7
MCCURDY 7978	3X	21206	87	109	17.1	87	1.4	8
MCCURDY 8225	2X	21787	89	112	19.7+	83	1.2	8
MCCURDY 890X	3X	22078	68	85	17.3	59	2.3	23
MIGRO-NAPB HP27	2X	21932	47-	58	15.8	43	5.4	82
MIGRO-NAPB M-0707	2X	21497	49-	61	15.4-	51	4.7	59
PIONEER BRAND 3145	3X	20916	72	90	18.8+	30	2.0	12
PIONEER BRAND 3147	M2X	21206	88	110	16.0	75	1.7	14
PIONEER BRAND 3160	M2X	22078	102+	128	16.4	87	1.7	13
PIONEER BRAND 3179	M2X	21061	94	118	16.5	77	1.3	7
WATSON 571	2X	20916	64+	80	15.0-	75	1.5	12
WATSON 572	2X	22078	97+	122	16.6	86	1.1	5
Group Average		21722	80	100	16.8	77	1.9	16
L.S.D. (.05)			27					

Experiment Average		21630	80	100	15.9	79	2.1	19
L.S.D. (.05)			15					

Cooperators: C. W. Wood, C. W. Roane Plot Size: 25' x 3' single-row plots, 4 replications
Planting Date: May 2, 1980 Harvest Date: September 25, 1980 Fertilization: 2 tons ground
limestone; 300 lbs/A 0-9-27; 160 lbs. actual N/A Herbicides: 2 lbs/A AAtrex; 3 lbs/A Sutan +
8 lbs/A Furadan 10-G Growing Conditions: Moisture was generally adequate during early growth.
However, drought stress during silking and grain filling lowered yields. Johnsongrass was
chopped from the test when the corn was approximately knee-high. The test was irrigated once
after tasseling. This trial was rated for virus disease by Dr. C. W. Roane of the Plant
Pathology and Physiology Department at VPI & SU on July 31, 1980.

*1= no apparent damage; 5=severe damage, 9=dead

**The percent of plants infected with either Maize Chlorotic Dwarf (MCD) or Maize Dwarf Mosaic (MDM) per plot.

TABLE 24. CORN VIRUS TEST, WINGINA TWO YEAR AVERAGES

MEDIUM MATURITY	HYBRID TYPE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	VIRUS SCORE	PERCENT INFECTED PLANTS
DEKALB XL72B	2X	94	95	20.0	90	1.5	13
DEKALB XL72B8	2X	88	89	21.7	86	2.0	46
FUNK'S G-4525A	2X	97	98	18.7	91	1.3	3
KENWORTHY KL-X73	M2X	103	104	19.1	89	1.3	12
KENWORTHY KL-X73A	3X	100	101	18.2	86	1.5	12
NORTHROP KING PX79	2X	106	107	18.9	87	1.7	14
O'S GOLD SX3344	2X	93	93	18.8	75	2.3	23
O'S GOLD SX5255	2X	85	86	19.0	78	2.2	22
PIONEER BRAND 3364	M2X	94	100	20.2	87	1.9	16
SOUTHERN STATES SS710	3X	114	115	18.5	92	1.2	7
TAYLOR-EVANS 6945	2X	83	83	19.4	81	2.0	25
THOMPSON 221	2X	105	106	19.0	86	1.5	11
Group Average		97	98	19.3	86	1.8	18

MID-FULL MATURITY	HYBRID TYPE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	VIRUS SCORE	PERCENT INFECTED PLANTS
BECK 87MDM	M2X	99	100	20.1	91	1.2	7
DEKALB XL394	2X	38	88	23.5	93	1.4	12
FUNK'S G-4776	3X	99	100	22.0	90	1.3	5
MCCURDY 77-51	3X	93	93	22.4	90	1.4	12
MCCURDY 7978	2X	106	107	20.8	92	1.3	8
PIONEER BRAND 3145	3X	99	100	23.5	90	1.6	9
PIONEER BRAND 3147	M2X	109	110	23.5	92	1.7	16
PIONEER BRAND 3179	M2X	114	115	21.3	84	1.4	9
Group Average		101	102	22.4	89	1.4	10

TABLE 25. CORN VIRUS TEST, WINGINA THREE YEAR AVERAGES

MEDIUM MATURITY	HYBRID TYPE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	VIRUS SCORE
DEKALB XL72B	2X	106	100	20.1	92	1.4
DEKALB XL72B8	2X	96	90	21.2	90	2.5
KENWORTHY KL-X73	M2X	97	92	18.6	90	1.5
NORTHROP KING PX79	2X	107	101	19.0	90	1.7
PIONEER BRAND 3364	M2X	106	100	19.9	90	1.7
TAYLOR-EVANS 6945	2X	87	82	18.6	85	1.0
THOMPSON 221	2X	108	102	18.9	87	1.4
Group Average		101	95	19.4	89	1.7

MID-FULL MATURITY	HYBRID TYPE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	VIRUS SCORE
BECK 87MDM	M2X	109	102	19.9	92	1.2
DEKALB XL394	2X	107	101	25.7	94	1.5
FUNK'S G-4776	3X	103	97	21.4	92	1.2
PIONEER BRAND 3145	3X	106	100	23.6	92	1.5
PIONEER BRAND 3147	M2X	122	115	23.0	96	1.5
PIONEER BRAND 3179	M2X	119	112	21.5	87	1.4
Group Average		111	105	22.6	91	1.4