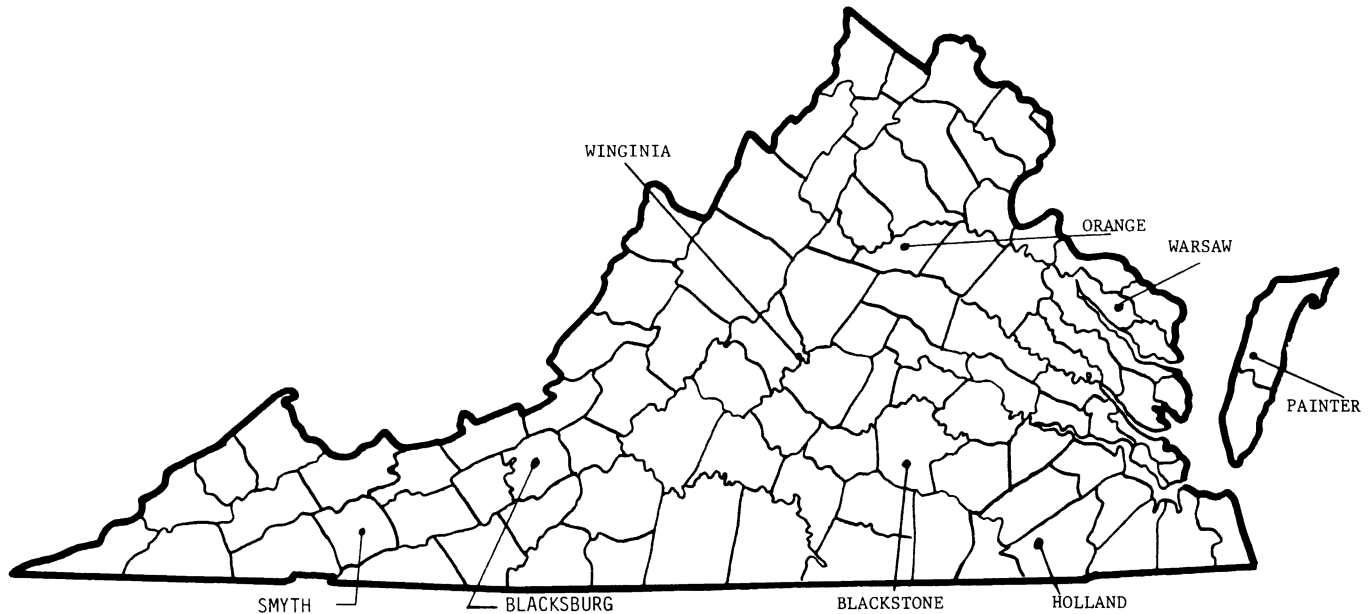


VIRGINIA CORN PERFORMANCE TRIALS IN 1979

LOCATIONS OF CORN HYBRIDS IN 1979



Research Division Report 176 Department of Agronomy
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061, December 1979

Coordinated and Summarized by:

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and S. L. Myers - Blacksburg

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Contributors at each location include:

G. D. Jones - Orange

H. M. Camper, Jr. - Warsaw

W. B. Wilkinson & R. R. Wilmouth - Blackstone

John Bryant - Holland

C. W. Woods and C. W. Roane - Wingina

J. E. Dunton, H. E. Hohlt, H. P. Wilson, and R. N. Hoffmaster - Painter

Richardson Bros. and E. R. Scyphers, Jr. - Smyth County

JAN 15 1980

BLACKSBURG, VIRGINIA

The brand names and sources of seed of the commercial hybrids tested in the 1979 Virginia Corn Performance Trials are listed below.

<u>HYBRID OR BRAND NAME</u>	<u>SOURCE OF SEED</u>
ASGROW	Asgrow Seed Co., 9001 Hickman Road, Des Moines, Iowa 50053
AUGUSTA	Green Valley Farms, 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	A. H. Hoffman Seed, Inc., Landisville, PA 17538
GOLDEN HARVEST	Columbiana Seed Company, Eldred, IL 62027
JACQUES	Helena Chemical Company, P.O. Box 977, W. Columbia, SC 29169
KENWORTHY	Kenworthy Seed Co., 240 Lafayette St., Greenfield, OH 45123
LONGEST	G. M. Longest, Box 45, St., Stephens Church, VA 23148
MCCURDY	McCurdy Seed Company, Freemont, Iowa 52561
MCNAIR	McNair Seed Co., Box 706, Laurinburg, NC 28352
MIDSTATES	NJ Crop Improvement Coop. Assoc., Inc., Allentown, NJ 08501
NORTHRUP-KING	Northrup-King and 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 West Jefferson St., Tipton, IN 46072
PRAIRIE STREAM	Prairie Stream Hybrids, Inc., RR 3, Frankfort, Indiana 46401
RING AROUND	Ring Around Products, Inc., P.O. Box 589 Montgomery, AL 30101
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, Indiana 46915
TROJAN	Pfizer Genetics, Inc., 2550 Kingstone Road, York, PA 17402
USS AGRI-CHEMICALS	USS Agri-Chemicals, P.O. Box 1685, Atlanta, GA 30301
VCIA	VCIA, 10 Sandy Hall, Virginia Tech, Blacksburg, VA 24061
VORIS	Voris Seeds, Inc., Box 457, Windfall, Ind. 46076
WATSON	Watson Seed Farms, Inc., Box 1099, Rocky Mount, NC 27801

VIRGINIA CORN PERFORMANCE TRIALS IN 1979

Tests of commercial corn hybrids were planted at eight locations in Virginia in 1979. Climate conditions were generally cool and wet just after planting, but by silking time temperatures were warmer. Some moisture stress occurred around silking time at most locations, but yields generally were above average. Lodging was above average due to diseases and unfavorable weather conditions during the fall.

Hybrids entered in the Virginia commercial hybrid tests were primarily those which had been submitted by commercial companies, but a few experimental and commercial 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.

The plots at Warsaw, Painter, Wingina, and Blacksburg were excellent. All locations had four replications of one row plots. One replication was dropped from the test at Orange due to bird and grasshopper damage.

The test in Smyth County had a moderate infestation of Johnsongrass in three replications. Yield from these replications are not reported because yields of hybrids not having virus resistance were affected when Johnsongrass was in the plot. Only the yields from the first replication which was free of Johnsongrass are reported. This data should be used with caution when comparing hybrid performance. The test at Blacksburg is a more precise indicator of hybrid performance for Southwest Virginia in 1979.

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 reported at 15.5% moisture. Grain and cob quality ratings were made at one or more locations using a rating scale of 1-5 with 1 being excellent and 5 being poor.

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

Below each group 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 indicates performance significantly above the maturity group average and a minus sign indicates performance significantly below the group average.

"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.

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

TABLE 1. AVERAGE RELATIVE PERFORMANCE OF HYBRIDS TESTED IN THREE OR MORE LOCATIONS IN 1979*

<u>EARLY MATURITY</u>	<u>AVERAGE RELATIVE PERFORMANCE</u>	<u>NUMBER OF LOCATIONS</u>	<u>MID-FULL MATURITY</u>	<u>AVERAGE RELATIVE PERFORMANCE</u>	<u>NUMBER OF LOCATIONS</u>
BECK 40X	77	3	AUGUSTA A311	97	4
BECK 44X	83	5	BECK 86X	96	4
BECK 58X	92	3	BECK 92X	113	5
DEKALB XL32AA	94	3	COKER 16	103	7
DEKALB XL42A	94	3	COKER 19	97	7
DEKALB XL53	92	4	COKER 19A	107	7
DENNIS DS6	93	5	COKER 22	100	7
FUNK'S G4321A	92	3	DEKALB XL78	105	6
FUNK'S G4445	93	3	DEKALB XL82	93	3
JACQUES JX177	88	4	DENNIS DS39	105	4
LONGEST SX2	90	3	DENNIS DS68	97	5
PIONEER BRAND 3535	101	7	DENNIS DS69	103	4
PIONEER BRAND 3541	89	7	DENNIS DX28	102	5
PIONEER BRAND 3591	82	3	FUNK'S G4611	92	4
PIONEER BRAND 3780	81	6	FUNK'S G4636	104	4
SOUTHERN STATES SS522	88	4	JACQUES JX202	86	3
SOUTHERN STATES SS570	92	7	JACQUES JX227	92	3
TAYLOR-EVANS TE6925	91	7	JACQUES JX247	113	4
THOR-O-BRED SX40C	87	6	JACQUES JX250	95	4
TODD M53	97	4	JACQUES W-300	116	4
TODD M59	87	3	KENWORTHY KL-X68A	90	3
TROJAN T1108	87	5	KENWORTHY KL-X68LMO	100	3
Group Average	90		KENWORTHY KL-X69A	90	3
			MCCURDY MSX65	97	4
			MCCURDY MSX84	101	4
			MCCURDY MSX84AA	105	6
			MCCURDY 7440	117	4
			MCCURDY 7787	100	3
			MIDSTATES MS747A	104	3
			MIDSTATES MS869	95	3
			MIDSTATES MS879	91	3
			MIDSTATES MS900	104	3
			NORTHROP KING PX707	101	5
			NORTHROP KING PX87	113	4
			NORTHROP KING PX95	93	3
			PAG EXP262193	104	3
			PAG SX333	99	3
			PAG SX373	103	6
			PIONEER BRAND 3183	114	7
			PIONEER BRAND 3184	103	6
			PIONEER BRAND 3311	114	6
			SOUTHERN STATES SS727	101	7
			SOUTHERN STATES SS730	98	7
			SOUTHERN STATES SS775	98	5
			SOUTHERN STATES SS795	97	6
			SOUTHERN STATES SS915	111	4
			TAYLOR-EVANS TE6968	81	7
			TAYLOR-EVANS TE6995	100	7
			TAYLOR-EVANS TE6995-A	105	7
			THOMPSON 219A	86	3
			THOMPSON 220B	97	3
			THOMPSON 221	101	3
			THOR-O-BRED SC599	106	3
			THOR-O-BRED SX650	100	6
			TODD M83	95	3
			TODD M95	111	5
			TROJAN TXS114	102	6
			TROJAN TXS115A	97	6
			VORIS 2601	104	4
			VPI 64B	95	6
			Group Average	101	
<u>MEDIUM MATURITY</u>					
ASGROW RX777	108	3			
BECK 62X	101	3			
BECK 65X	110	7			
BECK 75X	105	3			
DEKALB XL61	106	5			
DEKALB XL71	113	5			
DEKALB XL72AA	106	5			
DENNIS DS37	104	6			
DENNIS DS37A	107	5			
DENNIS DS47A	107	5			
DENNIS DX19	82	5			
FUNK'S G4520	108	4			
FUNK'S G4606	109	6			
JACQUES JX163	87	4			
JACQUES JX180	100	3			
JACQUES JX187	101	4			
KENWORTHY KL-X55	117	3			
NORTHROP KING PX74	105	6			
NORTHROP KING PX79	103	3			
O'S GOLD SX5500A	105	5			
O'S GOLD SX5500AB	96	3			
PIONEER BRAND 3369A	109	7			
PIONEER BRAND 3382	93	7			
PRAIRIE STREAM SX66	109	3			
SOUTHERN STATES SS698	94	5			
TAYLOR-EVANS TE6945	88	7			
TAYLOR-EVANS TE6992	97	7			
THOR-O-BRED SX540	93	3			
THOR-O-BRED SX544	104	6			
THOR-O-BRED SX548	102	5			
TODD MX73A	96	4			
TODD M80	102	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 1979. Relative yields are explained in the narrative at the front of this publication.

TABLE 2. AVERAGE RELATIVE PERFORMANCE OF HYBRIDS TESTED IN THREE OR MORE LOCATIONS IN 1978 and 1979.

	AVERAGE RELATIVE PERFORMANCE	NUMBER OF LOCATIONS
<u>EARLY MATURITY</u>		
BECK 44X	90	10
DEKALB XL53	91	10
FUNK'S G4321A	90	6
LONGEST SX2	96	6
PIONEER BRAND 3535	99	13
PIONEER BRAND 3541	90	13
PIONEER BRAND 3780	82	11
TAYLOR-EVANS TE6925	93	12
Group Average	91	
 <u>MEDIUM MATURITY</u>		
BECK 65X	111	13
DEKALB XL72AA	104	10
DENNIS DS37	104	10
DENNIS DS47A	104	9
FUNK'S G4520	109	7
FUNK'S G4606	107	11
NORTHRUP KING PX74	110	10
O'S GOLD SX5500A	105	10
PIONEER BRAND 3369A	110	13
PIONEER BRAND 3382	98	13
SOUTHERN STATES SS698	92	10
TAYLOR-EVANS TE6945	90	10
TAYLOR-EVANS TE6992	100	13
TODD MX73A	98	8
Group Average	103	
 <u>MID-FULL MATURITY</u>		
COKER 16	103	10
COKER 19A	107	10
COKER 22	105	10
DEKALB XL78	107	12
DENNIS DS39	109	8
DENNIS DS69	104	8
FUNK'S G4611	97	9
FUNK'S G4636	106	7
MIDSTATES MS747A	101	6
MIDSTATES MS869	95	6
MIDSTATES MS879	97	6
MIDSTATES MS900	103	6
NORTHRUP KING PX87	114	9
PAG SX333	105	7
PIONEER BRAND 3183	113	13
PIONEER BRAND 3184	107	12
PIONEER BRAND 3311	118	12
SOUTHERN STATES SS727	101	13
SOUTHERN STATES SS730	101	12
SOUTHERN STATES SS775	100	11
TAYLOR-EVANS TE6968	88	13
TAYLOR-EVANS TE6995	106	13
TAYLOR-EVANS TE6995-A	108	10
TROJAN TXS114	103	9
TROJAN TXS115A	100	10
Group Average	104	

TABLE 3. CORN PERFORMANCE, PAINTER 1979.

EARLY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
BECK 44X	2X	23474	125	68	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 S5570	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)			11				

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
NGRTHRUP 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	66
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		21283	143	100	21.1	59	84
L.S.D. (.05)			15				

TABLE 3. 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
NORTHROP 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		21413	147	104	23.0	60	87
L.S.D. (.05)			13				
Experiment Average		21895	141	100	21.4	63	85
L.S.D. (.05)			13				

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 4. CORN PERFORMANCE, PAINTER 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>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				
 <u>MEDIUM MATURITY</u>						
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 AGRICHEMICALS USS1010	20973	129	95	19.2	73	89
Group Average	21106	138	101	19.6	75	
L.S.D. (.05)		9				
 <u>MID-FULL MATURITY</u>						
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	16715	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 TWO YEAR AVERAGES

EARLY MATURITY	PLANT/ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
BECK 44X	23797	126	99	16.9	72	84
DEKALB XL25A	23898	116-	91	16.3	96	81
DEKALB XL43A	23151	116-	91	17.5	90	81
DEKALB XL53	22607	122	96	18.0 +	91	82
FUNK'S G4445	23736	131+	102	17.7	81	82
GOLDEN HARVEST H-2484	22425	120	94	16.9	92	83
PAG SX249	23998	125	98	16.7	77	82
PAG SX397	23535	138+	108	16.1	73	82
PIONEER BRAND 3535	22809	125	98	18.4 +	94	83
PIONEER BRAND 3541	22546	128	101	16.5	94	82
PIONEER BRAND 3780	22688	125	98	15.2 -	88	81
TAYLOR-EVANS TE6925	23514	121	95	16.3	77	83
Group Average	23225	124	98	16.9	85	81
L.S.D. (.05)		13				
<u>MEDIUM MATURITY</u>						
BECK 65X	21962	147+	115	21.0 +	84	88
DEKALB XL61	21619	129	101	20.3	90	83
DEKALB XL72AA	21155	136	107	20.2	81	88
DENNIS DS37	21720	124	97	19.7	73	88
DENNIS DS47A	21901	127	99	18.9 -	92	85
FUNK'S G4520	19945	135	106	20.4	86	85
FUNK'S G4606	20731	134	105	21.5 +	87	87
GOLDEN HARVEST H-2500	21074	123	97	19.9	84	87
MCNAIR X-170	20368	120-	94	20.3	88	83
NORTHROP KING PX74	21538	141+	110	20.1	68	86
O'S GOLD SX5353	21982	133	104	21.4 +	76	86
O'S GOLD SX5500A	22022	128	100	20.3	79	87
O'S GOLD SX5500AB	21518	133	105	20.5	85	86
PIONEER BRAND 3368A	21639	121	95	21.4 +	89	90
PIONEER BRAND 3369A	22002	134	105	20.1	98	86
PIONEER BRAND 3382	21397	122	96	19.8	95	86
RING AROUND RA1501	21244	124	97	20.6	86	88
TAYLOR-EVANS TE6945	22325	106-	83	19.0 -	86	89
TAYLOR-EVANS TE6992	21115	123	97	19.3 -	73	85
TODD MX73A	20933	127	100	19.9	81	86
VCIA 3	21599	146+	114	20.0	83	85
Group Average	21465	129	101	20.2	84	86
L.S.D. (.05)		13				
<u>MID-FULL MATURITY</u>						
BECK 88X	22002	147 +	115	22.0	82	90
COKER 16	22466	122	96	20.2	85	84
COKER 19A	21699	131	103	21.6	79	88
COKER 22	21780	135	106	23.2 +	78	89
DEKALB XL72B	21659	128	100	21.1	89	86
DEKALB XL78	21800	122	96	22.7 +	85	84
DENNIS DS39	22183	126	98	22.4 +	71	88
DENNIS DS69	21760	134	105	20.6	88	86
FUNK'S G4611	21397	118	93	20.7	78	88
FUNK'S G4636	21679	130	102	22.2 +	88	86
LONGEST 3X1	21417	108 -	85	20.5	77	88
MCNAIR X-194	20510	111 -	87	20.3	68	87
NORTHROP KING PX87	21417	148 +	116	23.2 +	78	90
O'S GOLD SX5509	20772	139 +	109	22.9 +	87	90
PAG SX333	22546	134	105	20.2	72	87
PIONEER BRAND 3183	21195	136	107	21.6	86	88
PIONEER BRAND 3184	21780	121	95	22.1	96	89
PIONEER BRAND 3311	21841	140 +	110	20.9	88	89
RING AROUND RA1502	22123	136	106	21.5	86	88
RING AROUND RA2501	22688	132	103	20.6	89	87
RING AROUND RA2502	21982	121	95	23.4 +	86	89
SOUTHERN STATES S5727	20651	107 -	83	19.8 -	69	88
SOUTHERN STATES S5727	21034	123	97	20.4	74	87
SOUTHERN STATES S5775	21578	118	92	21.4	81	84
TAYLOR-EVANS TE6968	20913	111 -	87	20.2	85	84
TAYLOR-EVANS TE6995	21679	118	93	20.2	74	90
TAYLOR-EVANS TE6995-A	21982	126	99	20.4	73	89
TROJAN TXS114	21639	129	101	20.3	85	89
TROJAN TXS115A	21357	125	98	19.7 -	65	87
VCIA 1	21417	113 -	88	20.1	86	84
VCIA 2	21377	127	99	19.7 -	82	86
VCIA 6	21901	120	94	19.5 -	78	85
WATSON 414	20832	129	101	19.9 -	78	87
WATSON 418	21740	133	104	21.9	79	88
Group Average	21611	126	99	21.1	81	87
L.S.D. (.05)		15				

TABLE 7. CORN PERFORMANCE, HOLLAND THREE YEAR AVERAGES

EARLY MATURITY	PLANTS/ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK
DEKALB XL43A	23985	111	93	18.9	92	78
FUNK'S G4445	24375	112	94	18.9	81	78
PIONEER BRAND 3535	22788	125 +	105	18.0	92	79
PIONEER BRAND 3780	23676	112	94	16.3	86	77
Group Average	23706	115	97	18.0	88	78
L.S.D. (.05)		13				
<u>MEDIUM MATURITY</u>						
BECK 65X	21901	131+	110	21.0	87	84
DENNIS DS37	22062	108-	91	20.6	79	84
DENNIS DS47A	22345	125	104	18.2 -	93	81
FUNK'S G4520	20341	119	100	20.6	89	83
GOLDEN HARVEST H-2500	21632	131+	110	19.8	87	83
MCNAIR X-170	20516	115-	96	19.7	90	79
NORTHROP KING PX74	21941	131+	109	21.2 +	78	82
PIONEER BRAND 3368A	21363	120	100	21.3	87	85
PIONEER BRAND 3369A	21605	134+	112	19.5	97	81
RING AROUND RA1501	22412	122	102	20.9	90	84
TAYLOR-EVANS TE6992	22304	121	101	19.5	79	82
Group Average	21674	123	103	20.2	87	83
L.S.D. (.05)		15				
<u>MID-FULL MATURITY</u>						
COKER 16	23205	121	101	19.9 -	88	80
COKER 22	22103	136+	114	23.6 +	82	85
DEKALB XL72B	22667	111	93	21.3	92	83
DEKALB XL78	22761	105-	88	22.8 +	86	81
DENNIS DS39	22371	118	99	23.2 +	77	84
FUNK'S G4611	21417	114	95	20.3	83	83
FUNK'S G4636	22681	129+	108	22.3	89	82
LONGEST 3X1	21538	107	90	20.4	82	83
MCNAIR X-194	20610	109	91	21.1	76	83
PIONEER BRAND 3184	21457	96-	80	22.3	96	85
RING AROUND RA1502	22331	130+	109	21.4	87	83
SOUTHERN STATES S5727	20704	115	96	20.3	77	83
TAYLOR-EVANS TE6968	22976	102-	85	19.8	86	81
TAYLOR-EVANS TE6995	22681	115	96	20.8	80	85
TROJAN TXS114	22331	128+	107	20.6	86	84
TROJAN TXS115A	21820	116	97	20.6	76	84
WATSON 414	22116	132+	111	20.2	82	83
Group Average	21104	117	98	21.2	83	83
L.S.D. (.05)		16				

TABLE 9. CORN PERFORMANCE, WARSAW TWO YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HT. INCHES
BECK 40X	23958	113 -	78	20.4	80	34
BECK 44X	23837	127	88	21.9	78	38
BECK 58X	22083	121	85	20.3 -	74	34
DEKALB XL53	22325	137 +	95	22.8	65	37
FUNK'S G4321A	22385	133	93	21.0	80	35
LONGEST SX2	22688	133	92	22.3	65	40
PIONEER BRAND 3535	22506	133	93	24.4 +	91	41
PIONEER BRAND 3541	22748	131	91	22.1	81	36
PIONEER BRAND 3780	22869	115 -	60	26.1 -	67	35
TAYLOR-EVANS TE6925	23051	125	87	21.0	74	40
Group Average	22844	127	88	21.6	78	37
L.S.D. (.05)		11				

MEDIUM MATURITY

BECK 65X	22627	159 +	111	24.0	56	45
DEKALB XL72AA	20994	141	98	24.0	63	45
DENNIS DS37	21599	150	104	23.2	59	44
DENNIS DS47A	21538	151	105	22.4 -	57	36
MCNAIR X-170	20389	139	97	22.5 -	55	40
O'S GOLD SX5353	21357	149	103	24.9 +	63	42
O'S GOLD SX5500A	21659	143	99	24.0	53	42
PENNEY SP1	20570	151	105	22.7 -	49	42
PIONEER BRAND 3369A	21780	161 +	112	22.9	60	44
PIONEER BRAND 3382	21841	145	101	22.7 -	62	42
RING AROUND RA1501	22022	151	105	23.5	64	44
SOUTHERN STATES SS698	20631	126 -	67	23.7	63	36
TAYLOR-EVANS TE6992	21538	147	103	23.6	54	41
TODD MX73A	20328	139	97	24.4 +	60	42
VORIS 2532	21901	146	101	23.2	60	45
Group Average	21384	146	102	23.5	59	42
L.S.D. (.05)		9				

MID-FULL MATURITY

CLARK 770A	22022	151	106	23.6	68	43
CLARK 777A	21659	148	103	22.9	52	44
COKER 16	22627	145	101	22.9	50	40
COKER 19A	21720	153	106	24.8	56	45
COKER 22	22143	151	105	25.7 +	58	43
DEKALB XL78	21175	148	103	24.5	50	41
DENNIS DS39	22083	154 +	107	24.3	56	43
DENNIS DS69	21659	153	106	23.1	55	42
FUNK'S G4611	21115	145	101	22.8	48	43
FUNK'S G4636	21478	144	100	25.4 +	56	42
MCNAIR X-194	20752	140	98	23.4	54	45
MIDSTATES MS747A	20389	140	98	22.8	62	45
MIDSTATES MS869	20691	139 -	97	21.7 -	52	40
MIDSTATES MS879	20268	133 -	92	25.2 +	55	42
MIDSTATES MS900	20873	150	104	23.1	63	38
NORTHRUP KING PX87	21538	146	102	27.1 +	57	41
PAG SX333	22204	151	105	22.3 -	60	45
PIONEER BRAND 3183	20933	163 +	113	25.2 +	49	45
RING AROUND RA1502	21659	153	106	24.7	71	44
RING AROUND RA2501	22022	151	105	23.6	67	42
RING AROUND RA2502	21962	139 -	97	25.6 +	63	41
SOUTHERN STATES SS727	20994	149	104	22.9	62	43
SOUTHERN STATES SS730	21175	150	104	23.2	60	40
SOUTHERN STATES SS775	21901	143	100	23.6	52	40
TAYLOR-EVANS TE6968	21115	127 -	88	22.2 -	55	39
TAYLOR-EVANS TE6995	22748	159 +	111	22.5	54	49
TODD M88	21115	145	101	22.8	68	40
TROJAN TXS115A	21357	139 -	97	22.5	57	45
V CIA 6	22083	136 -	95	22.2 -	54	43
VORIS 2601	21780	151	105	23.9	59	45
Group Average	21507	146	102	23.7	57	42
L.S.D. (.05)		11				

TABLE 10. CORN PERFORMANCE, WARSAW THREE YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HT. INCHES
BECK 44X	23743	106	95	23.4	85	37
FUNK'S G4321A	22345	111 +	100	22.5	87	35
LONGEST SX2	22708	103	93	20.7	76	39
PIONEER BRAND 3535	22587	110	99	24.9 +	94	39
PIONEER BRAND 3780	23797	98 -	88	20.5 -	92	34
Group Average	23035	106	95	22.4	87	37
L.S.D. (.05)		9				

MEDIUM MATURITY

BECK 65X	22936	122	109	22.3	69	42
DENNIS DS37	22035	113	102	22.3	71	42
DENNIS DS47A	22156	122	109	24.3	71	34
MCNAIR X-170	20530	111	100	23.5	70	38
PIONEER BRAND 3369A	21457	127 +	114	21.2 -	71	42
RING AROUND RA1501	22318	118	106	25.6 +	76	41
SOUTHERN STATES SS698	20368	102 -	91	24.8	76	35
TAYLOR-EVANS TE6992	22587	109	97	21.6 -	68	39
VORIS 2532	22775	110	99	25.7 +	73	42
Group Average	21906	115	103	23.5	72	39
L.S.D. (.05)		8				

MID-FULL MATURITY

CLARK 770A	21941	119 +	107	22.2	77	40
COKER 16	23313	109	98	21.2	66	38
COKER 22	22345	112	100	24.4 +	71	40
DEKALB XL78	22345	111	100	23.0	65	39
DENNIS DS39	22358	116	104	23.2	69	41
FUNK'S G4611	21229	104	94	21.2	65	40
FUNK'S G4636	22331	107	96	23.5	69	39
MCNAIR X-194	20772	107	96	22.7	68	41
MIDSTATES MS747A	20583	110	99	21.7	74	42
MIDSTATES MS869	20731	107	96	20.8 -	67	38
MIDSTATES MS879	20449	102 -	91	23.7	68	39
MIDSTATES MS900	20852	117 +	106	21.3	73	38
RING AROUND RA1502	22022	117 +	105	26.1 +	80	41
SOUTHERN STATES SS727	20987	111	100	21.9	74	41
TAYLOR-EVANS TE6968	22734	93 -	84	21.2	69	37
TAYLOR-EVANS TE6995	23393	122 +	109	25.0 +	70	44
TODD M88	21551	116	104	21.5	73	39
TROJAN TXS115A	21820	103 -	93	21.4	71	41
Group Average	21764	110	99	22.6	71	40
L.S.D. (.05)		9				

TABLE 12. CORN PERFORMANCE, ORANGE TWO YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HT. INCHES
BECK 44X	24668	115	86	17.1	89	35
DEKALB XL53	23821	106	79	18.5	92	39
FUNK'S G4321A	23821	111	83	17.5	94	34
LONGEST SX2	23821	123+	92	19.2+	89	41
PIONEER BRAND 3529	24087	107	80	18.4	95	36
PIONEER BRAND 3535	23942	125+	94	17.8	96	41
PIONEER BRAND 3541	23918	109	82	17.6	95	39
PIONEER BRAND 3591	23414	96-	72	18.4	99	37
PIONEER BRAND 3780	24402	99-	74	15.2-	90	34
TAYLOR-EVANS TE6925	24063	114	85	16.0-	95	39
TODD M48	24112	119	89	17.2	90	40
TODD M59	21352	113	85	16.5	83	41
Group Average	23784	111	83	17.0	92	38
L.S.D. (.05)		15				
<u>MEDIUM MATURITY</u>						
BECK 65X	23264	149+	112	20.3	91	44
DEKALB XL72AA	21981	142	106	19.6	94	45
DENNIS DS37	21545	147	110	20.1	91	46
DENNIS DS47A	22489	145	109	17.9-	96	37
FUNK'S G4520	19730	145	109	19.3	97	42
FUNK'S G4606	21446	145	109	20.2	96	44
KENWORTHY KL-X55	23458	153+	115	21.1+	96	46
NORTHROP KING PX74	21448	145	109	19.7	89	45
NORTHROP KING PX79	23240	146	110	19.9	97	46
PIONEER BRAND 3369A	22441	139	104	20.8+	98	45
PIONEER BRAND 3382	22441	136	102	19.1	99	42
SOUTHERN STATES S5698	22610	131	98	19.0	94	38
TAYLOR-EVANS TE6945	20916	116-	87	20.3	94	41
TAYLOR-EVANS TE6992	22271	126-	95	19.8	91	43
TODD MX73A	19851	130	97	18.4-	94	44
VORIS 2481	22054	133	100	18.8-	93	43
Group Average	21949	139	105	20.0	94	43
L.S.D. (.05)		13				
<u>MID-FULL MATURITY</u>						
AUGUSTA A300	21763	143	107	18.8-	79	44
DEKALB XL72B	21715	128	96	21.5	97	38
DEKALB XL78	23288	151+	113	21.5	96	43
DENNIS DS39	23216	152+	114	21.9+	96	39
DENNIS DS69	20819	137	103	20.5	98	42
FUNK'S G4611	21739	132	99	20.8	93	42
FUNK'S G4636	22441	149	112	21.7	98	40
KENWORTHY KL-X69A	23554	140	105	20.3	95	43
MIDSTATES MS747A	20504	139	104	20.2	90	46
MIDSTATES MS869	21763	125	93	20.4	94	41
MIDSTATES MS879	20795	129	97	22.6+	96	39
MIDSTATES MS900	21933	136	102	20.7	95	41
NORTHROP KING PX87	22369	161+	121	23.5+	83	43
PAG SX333	22489	132	99	19.7	87	44
PIONEER BRAND 3183	21715	152+	114	21.4	95	44
PIONEER BRAND 3184	23046	147	110	21.8	99	42
PIONEER BRAND 3311	23046	170+	128	20.8	99	43
SOUTHERN STATES S5727	21497	132	99	20.7	95	43
SOUTHERN STATES S5730	21933	129	97	20.2	90	41
SOUTHERN STATES S5775	22392	136	102	21.7	94	40
TAYLOR-EVANS TE6968	22562	113	84	21.4	94	40
TAYLOR-EVANS TE6995	23264	141	105	20.4	95	44
TAYLOR-EVANS TE6995-A	22950	145	109	21.0	96	46
THOMPSON 220B	23143	126	95	21.2	93	43
THOMPSON 221	22804	126	95	19.4-	81	46
TROJAN TXS114	21230	129	97	20.3	96	45
Group Average	22229	138	104	21.0	93	42
L.S.D. (.05)		17				

TABLE 13. CORN PERFORMANCE, ORANGE THREE YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	EAR HT. INCHES
FUNK'S G4321A	23517	103	84	21.3	32
LONGEST SX2	22818	110	90	23.1+	37
PIONEER BRAND 3535	23544	117+	96	21.7	37
PIONEER BRAND 3591	23783	92-	75	21.8	33
PIONEER BRAND 3780	24819	98	80	18.4-	31
TODD M59	22785	106	86	21.0	38
Group Average	23544	104	85	21.2	34
L.S.D. (.05)		12			
<u>MEDIUM MATURITY</u>					
BECK 65X	22446	138	113	23.5-	40
DENNIS DS37	21946	126	103	24.2	40
DENNIS DS47A	22737	128	104	23.7	34
FUNK'S G4520	20090	129	105	26.3+	39
KENWORTHY KL-X55	22791	139+	113	24.7	41
NORTHROP KING PX74	22204	134	110	23.5-	42
NORTHROP KING PX79	23399	133	109	24.1	42
PIONEER BRAND 3369A	21898	132	108	24.9	41
TAYLOR-EVANS TE6992	22430	109-	89	25.0	39
Group Average	22215	130	106	24.4	40
L.S.D. (.05)		11			
<u>MID-FULL MATURITY</u>					
DEKALB XL72B	22382	115-	94	26.3	35
DEKALB XL78	23431	131	107	27.1+	39
DENNIS DS39	23060	133+	108	26.1	37
FUNK'S G4611	21537	121	98	24.8	38
FUNK'S G4636	23189	135+	111	26.3	37
MIDSTATES MS747A	20445	133+	108	24.0-	42
MIDSTATES MS869	21446	112-	92	24.7	37
MIDSTATES MS879	20639	123	100	26.4	35
MIDSTATES MS900	21075	128	105	25.2	37
PIONEER BRAND 3184	22301	134+	109	26.9+	38
SOUTHERN STATES S5727	21269	125	102	24.2-	40
TAYLOR-EVANS TE6968	22624	106-	86	26.4	36
TAYLOR-EVANS TE6995	23092	133+	109	23.3-	40
THOMPSON 220B	22366	110-	89	26.2	37
THOMPSON 221	22785	122	100	24.6	40
TROJAN TXS114	22059	122	100	24.3-	40
Group Average	22106	124	101	25.4	38
L.S.D. (.05)		15			

TABLE 14. CORN PERFORMANCE, BLACKSTONE 1979

EARLY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HT. INCHES
BECK 44X	2X	22659	82	67	17.3	90	90	30
DEKALB XL32AA	2X	24111	128 +	104	16.7	93	88	35
PIONEER BRAND 3529	M2X	21061	86	70	17.9 +	95	90	29
PIONEER BRAND 3535	2X	23821	126 +	102	18.9 +	94	88	36
PIONEER BRAND 3541	2X	22659	80	64	17.0	97	85	30
PIONEER BRAND 3591	M2X	24111	77	62	17.1	91	86	29
PIONEER BRAND 3780	2X	23530	80	64	16.0	93	87	30
SOUTHERN STATES SS522	M2X	17284	74 -	60	16.4	90	91	30
SOUTHERN STATES SS570	2X	23240	96	78	16.8	88	86	31
TAYLOR-EVANS TE6925	2X	22513	115 +	93	15.9 -	96	86	35
THOR-O-BRED SX400	2X	22949	83	67	16.0	92	85	31
THOR-O-BRED SX490	2X	20776	92	74	16.5	86	86	34
TRDJAN T1108	2X	22659	96	78	16.3	93	85	33
Group Average		22412	94	76	16.8	92	87	32
L.S.D. (.05)			26					
MEDIUM MATURITY								
BECK 65X	2X	22078	137	111	18.9	89	87	41
DENNIS DX19	2X	12491	95 -	77	19.5	93	89	40
FUNK'S G4606	2X	21642	142	115	19.5	97	88	39
LUNGEST SX4	M2X	21351	148 +	120	19.5	95	90	41
NORTHROP KING PX74	2X	20625	130	105	19.0	83	87	39
O'S GOLD SX5500A	2X	21932	137	111	18.3 -	85	85	40
O'S GOLD SX5500AB	2X	21642	110	89	18.5	84	88	36
PIONEER BRAND 3369A	2X	19899	146 +	118	20.2 +	94	90	39
PIONEER BRAND 3382	2X	18882	102 -	82	18.8	95	88	35
SOUTHERN STATES SS698	SPX	21642	124	100	19.5	93	85	36
TAYLOR-EVANS TE6945	2X	18592	102 -	83	18.7	88	93	34
TAYLOR-EVANS TE6992	2X	20189	125	101	18.8	86	89	40
THOR-O-BRED SX544	2X	20480	137	111	18.3 -	87	88	39
THOR-O-BRED SX548	2X	20044	124	100	20.8 +	92	88	39
USS AGRICHEMICALS USS055A	3X	21351	131	106	18.3 -	97	90	40
USS AGRICHEMICALS USS1515	2X	20335	154 +	124	19.7	94	90	38
Group Average		20198	128	103	19.2	91	88	38
L.S.D. (.05)			25					

TABLE 14. CORN PERFORMANCE, BLACKSTONE 1979 (contd.)

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HT. INCHES
BECK 86X	2X	20625	108 -	87	20.6	89	90	35
BECK 92X	2X	22513	148 +	120	20.3	92	88	38
COKER 16	M2X	21932	132	107	19.3	95	85	35
COKER 19	2X	20480	94 -	76	17.8 -	94	86	36
COKER 19A	M2X	21497	115	93	19.8	89	66	37
COKER 22	3X	21351	131	106	20.4	92	89	38
DENNIS DS68	2X	19754	126	102	21.3 +	100	67	34
DENNIS DX28	2X	20480	131	106	19.3	93	88	37
FUNK'S G4611	2X	17284	101 -	82	18.8	92	92	40
JACQUES JX247	2X	19027	133	108	20.3	95	91	38
JACQUES JX250	2X	20625	124	101	20.5	94	88	40
JACQUES W-300	2X	22078	161 +	130	21.9 +	86	96	41
MCCURDY MSX65	2X	21787	117	94	17.7 -	92	85	36
MCCURDY MSX64	2X	21206	123	99	18.2 -	86	88	39
MCCURDY MSX84AA	2X	19899	126	102	20.2	93	89	38
MCCURDY T440	2X	22223	154 +	125	18.1 -	93	87	39
MCCURDY 7787	2X	21932	129	105	21.2 +	91	87	37
NORTHROP KING PX707	3X	19899	131	106	20.1	89	90	40
PAG SX373	2X	20189	143	116	22.3 +	95	89	40
PIONEER BRAND 3163	2X	22078	156 +	128	20.2	95	88	39
PIONEER BRAND 3184	2X	22078	157 +	127	21.1 +	99	90	36
PIONEER BRAND 3311	M2X	21932	146	118	19.9	87	89	39
SOUTHERN STATES SS727	2X	21206	128	104	17.7 -	92	87	39
SOUTHERN STATES SS730	2X	19027	110 -	89	19.1	92	89	36
SOUTHERN STATES SS795	3X	21787	125	101	19.4	97	88	37
SOUTHERN STATES SS915	2X	21642	150 +	121	21.6 +	91	92	39
TAYLOR-EVANS TE6968	2X	16703	99 -	80	19.6	97	87	33
TAYLOR-EVANS TE6995	2X	20916	117	94	18.8	94	90	38
TAYLOR-EVANS TE6995-A	2X	20625	138	112	19.5	97	90	39
THOR-O-BRED SC599	M2X	21061	124	100	17.8 -	91	87	37
THOR-O-BRED SX650	2X	20916	141	114	21.4 +	94	90	38
TODD M95	2X	21061	155 +	126	20.4	92	90	38
TRDJAN TXS114	2X	18882	127	103	19.1	91	88	39
TRDJAN TXS115A	2X	21206	116	94	20.0	87	87	38
VCIA 1	3X	21642	126	102	18.6	91	85	34
VCIA 2	3X	22078	133	108	18.0 -	95	86	46
VORIS 2601	2X	21206	133	108	21.0	95	88	38
VORIS 2651	2X	21787	153 +	124	20.4	95	87	41
VPI 648	4X	20335	143	115	20.3	86	92	40
Group Average		20845	131	106	19.8	92	88	38
L.S.D. (.05)			30					
Experiment Average								
		20992	123	100	19.1	92	82	37
L.S.D. (.05)			28					

Cooperators: W. B. Wilkinson and R. R. Wilmouth. Plot Size: 25' x 3' single-row plot, 4 replications.
 Planting Date: April 12, 1979. Harvest Date: Sept. 20, 1979 (Reps I & II), Oct 11, 1979 (Reps III & IV).
 Soil Test: pH-6.6, p-H; K-M. Fertilization: 1000 lbs. 10-10-10/A, 300 lbs. Ammonium Nitrate/Acre sidedress.
 Herbicides: Sutan & Bladex. Growing Condition: Early conditions (pre-silk) were unseasonably wet and cool.
 Drought stress occurred from mid-June to mid-July. Irrigation was applied 3 times during the period.
 Excessive September precipitations prevented a more timely harvest.

TABLE 15. CORN PERFORMANCE, BLACKSTONE TWO YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HT. INCHES
BECK 44X	20916	91	77	23.4	85	31
PIONEER BRAND 3529	21570	87	74	26.8 +	94	30
PIONEER BRAND 3535	22877	120 +	102	21.8	92	37
PIONEER BRAND 3541	22369	88	74	19.6 -	92	32
PIONEER BRAND 3591	23095	83	71	19.3 -	92	31
PIONEER BRAND 3780	22610	76 -	64	22.4	91	28
TAYLOR-EVANS TE6925	22368	112 +	95	24.9	93	35
Group Average	22258	94	80	22.6	91	31
L.S.D. (.05)		19				

MEDIUM MATURITY

BECK 65X	22078	129	110	21.7	87	38
FUNK'S G4606	21134	133	113	22.0	94	37
NORTHROP KING PX74	21158	130	111	22.6	82	41
O'S GOLD SX550CA	21860	140+	119	21.2	90	41
O'S GOLD SX550AB	21860	118	100	22.4	80	37
PIONEER BRAND 3369A	20843	133	113	22.9 +	87	37
PIONEER BRAND 3382	20044	111-	95	21.4	91	36
TAYLOR-EVANS TE6945	20843	103-	87	20.3 -	88	33
TAYLOR-EVANS TE6992	21715	123	105	22.8 +	81	39
USS AGRICHEMICALS USS055A	21715	123	105	20.8 +	89	39
Group Average	21325	124	106	21.8	87	38
L.S.D. (.05)		16				

MID-FULL MATURITY

FUNK'S G4611	18519	105-	90	22.0	86	36
PIONEER BRAND 3183	20335	147+	126	23.2	94	38
PIONEER BRAND 3184	22078	148+	126	25.0 +	96	37
PIONEER BRAND 3311	21642	148+	127	23.3	88	38
SOUTHERN STATES S5727	19754	127	108	21.2 -	90	37
SOUTHERN STATES S5730	19608	112	96	22.9	91	37
SOUTHERN STATES S5795	22296	123	105	22.7	90	38
TAYLOR-EVANS TE6968	19173	101-	86	22.0	93	32
TAYLOR-EVANS TE6995	21352	118	100	21.0 -	85	37
TROJAN TXS114	19318	126	107	22.4	86	38
TROJAN TXS115A	20916	116	98	22.7	86	36
Group Average	20453	125	106	22.6	90	37
L.S.D. (.05)		20				

TABLE 16. CORN PERFORMANCE, BLACKSTONE THREE YEAR AVERAGES

EARLY MATURITY	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	EAR HT. INCHES
PIONEER BRAND 3535	23264	112	99	23.5	93	37
PIONEER BRAND 3591	23194	85	75	19.8	91	32
Group Average	23229	98	87	21.6	92	34
L.S.D. (.05)		14				

MEDIUM MATURITY

NORTHROP KING PX74	21257	121	107	22.1	78	40
PIONEER BRAND 3369A	21048	120	106	22.3	78	38
TAYLOR-EVANS TE6992	21467	120	106	22.0	84	40
USS AGRICHEMICALS USS055A	21629	111-	98	22.6 +	90	39
Group Average	21350	118	104	22.3	82	39
L.S.D. (.05)		13				

MID-FULL MATURITY

FUNK'S G4611	19552	102 -	90	21.9	87	39
PIONEER BRAND 3184	21763	129 +	114	24.4 +	93	38
SOUTHERN STATES S5727	19891	112	99	21.1 -	86	37
SOUTHERN STATES S5795	22285	114	101	22.2	84	38
TAYLOR-EVANS TE6968	20633	104 -	92	22.0	94	35
TAYLOR-EVANS TE6995	21064	113	100	23.1	86	39
TROJAN TXS114	20784	122 +	108	23.9 +	84	39
TROJAN TXS115A	21365	111	98	22.0	86	38
Group Average	20917	113	100	22.6	87	38
L.S.D. (.05)		17				

TABLE 17. CORN PERFORMANCE, BLACKSBURG 1979

EARLY MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HT. INCHES
DENNIS DS6	2X	23240	146	105	19.8	82	82	40
PIONEER BRAND 3535	2X	24422	169 +	122	21.8 +	84	82	45
PIONEER BRAND 3541	2X	23675	142	102	18.9	83	81	36
SOUTHERN STATES SS522	M2X	23966	145	104	19.2	72	82	40
SOUTHERN STATES SS570	2X	23821	144	100	18.4	69	82	37
TAYLOR-EVANS TE6925	2X	23094	146	104	18.7	70	82	42
THOR-O-BRED SX400	2X	23821	146	101	18.1 -	68	80	35
THOR-O-BRED SX414	2X	22659	141	101	19.9	72	83	41
THOR-O-BRED SX440	2X	24402	131 -	94	19.5	61	81	35
TROJAN T1108	2X	22368	125 -	90	20.2	51	82	42
Group Average		23544	143	102	19.5	82	82	39
L.S.D. (.05)			16					
MEDIUM MATURITY	HYBRID TYPE	PLANTS ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HT. INCHES
ASGRW RX777	2X	21497	144	103	22.1 -	55	86	40
BECK 62X	2X	21497	129	92	20.3 -	80	88	45
BECK 65X	2X	22078	153	110	23.6	87	89	44
BECK 75X	2X	21932	141	101	24.5	59	86	39
DEKALB XL61	2X	21351	153	110	23.9	78	86	39
DEKALB XL71	2X	21932	160 +	115	26.4 +	89	86	41
DENNIS DS37	2X	20189	136	98	23.6	79	87	44
DENNIS DS37A	2X	21932	142	101	24.3	81	87	40
DENNIS DS47A	2X	21932	155 +	111	22.0 -	80	87	38
DENNIS DX19	2X	13508	107 -	76	23.6	85	88	48
FUNK'S G4606	2X	21787	144	103	24.2	81	86	43
KENWORTHY KL-X55	3X	22078	167 +	120	27.3 +	74	87	45
LUNGEST SX4	M2X	21932	136	98	26.7 +	44	88	45
U'S GOLD SX5500A	2X	21351	147	105	22.8	80	86	45
PIONEER BRAND 3369A	2X	22513	158 +	113	24.5	77	87	43
PIONEER BRAND 3382	2X	21497	126	91	22.8	76	85	40
SOUTHERN STATES SS698	SPX	20916	113 -	81	24.2	66	85	40
TAYLOR-EVANS TE6945	2X	21642	140	100	22.9	81	88	41
TAYLOR-EVANS TE6992	2X	21061	134	96	23.7	72	88	41
THOR-O-BRED SX540	2X	21497	127	91	22.6	66	88	43
THOR-O-BRED SX544	2X	19027	124 -	89	23.8	84	87	43
THOR-O-BRED SX548	2X	20625	132	95	23.9	43	86	40
Group Average		21080	139	100	23.8	74	87	42
L.S.D. (.05)			15					

Cooperators: D. E. Brann, E. R. Davis, Jr., H. S. Aycock, C. O. Perry, and R. L. Harrison.

Plot Size: 30' x 2.5' single-row plots, 4 replications. Planting Date: May 2, 1979

Harvest Date: Oct. 30, 1979 Fertilization: Fall application: 300 lbs. 0-44-0 and 200 lbs.

0-0-60, 140 lbs./A actual N preplant, 40 lbs./A actual N post-emergence. Herbicides: 1.5 lbs./A

AAtrex and 1 qt. Laso/A at planting. Growing Conditions: Cool temperatures with excessive precipitation during May and June. In general, moisture was adequate throughout the rest of the season with only slight drought stress following silking.

TABLE 17. CORN PERFORMANCE, BLACKSBURG 1979 (contd.)

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	DAYS TO SILK	EAR HT. INCHES
ASGRW RX90	2X	21061	146	104	23.2 -	81	88	40
ASGRW RX909	2X	21932	130	93	25.4	71	89	41
ASGRW RX98	2X	21787	143	102	25.5	63	88	44
AUGUSTA A311	2X	21206	147	105	23.5 -	81	88	44
BECK 92X	2X	20770	157 +	113	26.7	57	88	47
COKER 16	M2X	22368	144	104	24.1	63	87	42
COKER 19	2X	21497	142	101	23.1 -	85	89	43
COKER 19A	M2X	21767	156 +	112	25.8	73	87	43
COKER 22	3X	21767	123 -	88	27.8 +	74	89	45
DEKALB XL78	2X	21767	146	105	25.9	59	88	43
DEKALB XL82	2X	22078	135	96	32.3 +	66	89	46
FUNK'S G4636	2X	21787	139	100	26.4	79	89	43
KENWORTHY KL-X68A	2X	21061	117 -	84	23.8	64	87	43
KENWORTHY KL-X68LHO	2X	21767	142	102	26.9	71	90	45
KENWORTHY KL-X69A	2X	21787	124 -	89	24.9	73	89	43
LUNGEST 3X1	M3X	22078	140 -	86	25.0	58	88	42
MCCURDY MSX65	2X	20916	131	94	23.0 -	77	88	42
MCCURDY MSX64AA	2X	21206	128	92	27.8 +	70	89	46
PAG SX373	2X	21787	125 -	80	28.9 +	81	90	43
PIONEER BRAND 3179	M2X	21932	129	93	26.9	44	91	49
PIONEER BRAND 3183	2X	22078	137	99	24.2	64	88	43
PIONEER BRAND 3184	2X	21787	111 -	80	25.3	75	90	43
PIONEER BRAND 3311	M2X	21351	132	95	27.7 +	61	89	45
SOUTHERN STATES SS727	2X	21061	143	102	23.5	86	87	44
SOUTHERN STATES SS730	2X	20916	136	99	24.1	74	88	41
TAYLOR-EVANS TE6968	2X	18737	118 -	84	23.8	67	87	40
TAYLOR-EVANS TE6995	2X	22078	152 +	109	25.2 -	82	88	45
TAYLOR-EVANS TE6995-A	2X	21497	157 +	112	25.3	72	87	43
THOMPSON 219A	4X	21206	135	97	25.8	37	87	44
THOMPSON 220B	2X	21932	146	104	23.6	58	87	43
THOMPSON 221	2X	22078	147	105	23.6	21	76	46
THOR-O-BRED SC630	M2X	21642	136	99	25.3	59	88	39
THOR-O-BRED SX650	2X	21767	142	102	28.4 +	50	87	43
TROJAN TXS114	2X	21206	149 +	107	26.5	65	88	44
TROJAN TXS115A	2X	22078	140	101	23.8	82	89	43
VPI 646	4X	21497	135	97	25.3	39	89	46
Group Average		21537	137	98	25.4	66	88	43
L.S.D. (.05)			16					
Experiment Average		21684	139	100	24.0	69	87	42
L.S.D. (.05)			16					

TABLE 18. 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 HT. INCHES</u>
PIONEER BRAND 3535	22659	136 ⁺	110	22.8 ⁺	90	40
PIONEER BRAND 3541	22586	121	98	20.3	90	34
TAYLOR-EVANS TE6925	22513	118	96	20.8	78	38
Group Average	22586	125	101	21.3	86	38
L.S.D. (.05)		11				
 <u>MEDIUM MATURITY</u>						
BECK 65X	21207	129	104	24.7	89	40
KENWORTHY KL-X55	21715	148 ⁺	120	28.2 ⁺	81	41
O'S GOLD SX5500A	21134	121	98	24.9	86	41
PIONEER BRAND 3369A	21932	139	112	25.2	79	40
PIONEER BRAND 3382	21497	109	88	24.2	82	37
SOUTHERN STATES SS698	20480	101 ⁻	82	24.8	76	36
TAYLOR-EVANS TE6992	21642	119	96	24.6	82	38
Group Average	21372	124	100	25.3	83	39
L.S.D. (.05)		10				
 <u>MID-FULL MATURITY</u>						
DEKALB XL78	22078	134 ⁺	108	26.9	74	39
PIONEER BRAND 3179	21642	117	94	28.4 ⁺	65	43
PIONEER BRAND 3183	21497	123	99	27.0	81	40
PIONEER BRAND 3184	21642	106 ⁻	86	27.3	87	39
PIONEER BRAND 3311	21569	121	98	28.7 ⁺	78	41
SOUTHERN STATES SS727	20117	121	97	24.8	89	40
TAYLOR-EVANS TE6968	20117	112 ⁻	90	24.6	83	37
TAYLOR-EVANS TE6995	21715	131	106	24.6	87	41
THOMPSON 220B	21497	124	100	25.2	74	39
THOMPSON 221	21570	130	105	24.1	54	42
TROJAN TXS115A	21788	127	103	25.3	90	39
Group Average	21384	122	99	26.1	78	40
L.S.D. (.05)		12				

TABLE 19. CORN PERFORMANCE, SMYTH COUNTY 1979

This hybrid trial was conducted in an area that has moderate infestation of Johnsongrass. The plot area was hoed twice to control the Johnsongrass, however, virus was spread to the hybrids in replications II, III, and IV. Replication I was free of Johnsongrass and the virus (MDM & MCDV). The hybrid performance at this location represents only one replication and, therefore, should be evaluated with caution. Refer to Blacksburg for further evaluation of hybrids for SW Virginia.

	HYBRID TYPE	PLANTS/ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT
EARLY MATURITY						
DENNIS DS6	2X	20328	121	89	23.4	100
PIONEER BRAND 3535	2X	20812	121	88	27.9	95
PIONEER BRAND 3541	2X	21780	119	87	23.6	84
PIONEER BRAND 3591	M2X	22748	144	106	21.9	100
PIONEER BRAND 3780	2X	18876	122	89	20.9	95
SOUTHERN STATES SS522	M2X	23232	147	108	22.8	83
SOUTHERN STATES SS570	2X	22264	124	91	21.3	89
TAYLOR-EVANS TE6925	2X	22264	130	95	21.3	89
THOR-O-BRED SX400	2X	21780	115	84	20.6	82
THOR-O-BRED SX510	2X	22264	149	109	22.1	100
MEDIUM MATURITY						
BECK 65X	2X	21780	135	99	25.8	98
DEKALB XL61	2X	21780	145	106	26.8	80
DEKALB XL71	2X	21780	145	106	31.3	89
DEKALB XL72AA	2X	20812	149	109	26.3	95
DENNIS DS37	2X	21296	139	101	25.9	82
DENNIS DS37A	2X	21780	149	109	26.1	91
DENNIS DS47A	2X	22264	132	97	23.7	87
DENNIS DX19	2X	16456	110	80	27.4	91
FUNK'S G4606	2X	21296	152	111	29.5	91
KENWORTHY KL-X55	3X	21296	159	116	34.5	93
NORTHROP KING PX74	2X	21296	138	101	26.2	82
O'S GOLD SX5500AB	2X	20328	136	99	28.4	81
PIONEER BRAND 3369A	2X	19844	127	93	26.6	78
PIONEER BRAND 3382	2X	20812	125	91	26.5	84
SOUTHERN STATES SS698	SPX	21296	136	101	26.3	89
TAYLOR-EVANS TE6945	2X	21296	130	95	29.8	86
TAYLOR-EVANS TE6992	2X	21780	130	95	25.9	80
THOR-O-BRED SX540	2X	22264	122	89	24.2	74
THOR-O-BRED SX544	2X	21296	134	98	27.7	82
THOR-O-BRED SX548	2X	22264	146	107	25.3	61
VC 1A 3	M2X	19360	149	109	24.0	85

TABLE 19. CORN PERFORMANCE, SMYTH COUNTY 1979 (contd.)

MID-FULL MATURITY	HYBRID TYPE	PLANTS/ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT
AUGUSTA A311	2X	21296	129	94	26.7	93
BECK 86X	2X	20812	126	92	30.1	89
BECK 92X	2X	19844	131	96	34.2	76
COCKER 16	M2X	19844	129	94	25.9	88
COCKER 19	2X	20328	140	102	26.3	98
COCKER 19A	M2X	20812	143	105	29.4	91
COCKER 22	3X	19360	98	72	37.8	90
DEKALB XL78	2X	20812	145	106	29.8	84
DEKALB XL82	2X	20812	119	87	38.0	91
DENNIS DS39	2X	20812	143	105	29.7	95
DENNIS DS68	2X	20812	126	92	27.7	100
DENNIS DS69	2X	20812	127	93	28.1	100
JENNIS DX28	2X	22748	150	110	26.3	91
FUNK'S G5666	4X	19360	131	96	28.6	90
FUNK'S G5757	4X	20328	130	95	31.4	95
KENWORTHY KL-X68A	2X	18876	133	98	27.2	95
KENWORTHY KL-X68LMO	2X	20328	123	90	31.1	90
KENWORTHY KL-X69A	2X	20812	104	76	27.6	72
MCCURDY MSX84	2X	22264	147	108	26.4	89
MCCURDY MSX84AA	2X	20812	146	107	29.3	84
MCCURDY 7440	2X	21780	156	114	27.1	96
MCCURDY 7787	2X	20812	140	102	28.3	91
NORTHROP KING PX707	3X	19844	134	98	33.4	93
PIONEER BRAND 3179	M2X	20328	148	109	28.1	83
PIONEER BRAND 3183	2X	19360	148	109	29.6	90
PIONEER BRAND 3184	2X	20812	139	102	28.0	98
PIONEER BRAND 3311	M2X	21296	141	104	29.7	75
SOUTHERN STATES SS710	3X	22264	154	113	27.4	87
SOUTHERN STATES SS727	2X	20812	151	111	24.9	88
SOUTHERN STATES SS730	2X	20812	148	109	26.6	100
SOUTHERN STATES SS775	2X	21296	142	104	26.6	84
SOUTHERN STATES SS795	3X	19360	137	100	26.8	90
TAYLOR-EVANS TE6968	2X	19360	119	87	24.9	95
TAYLOR-EVANS TE6995	2X	19360	143	105	26.1	88
TAYLOR-EVANS TE6995-A	2X	21780	152	111	28.5	78
THOMPSON 219A	4X	18392	122	90	29.8	66
THOMPSON 220B	2X	20812	135	98	28.4	81
THOMPSON 221	2X	22264	142	104	24.6	87
THOR-O-BRED SX599	M2X	20812	148	108	26.1	95
THOR-O-BRED SX650	2X	20812	123	90	30.0	74
TROJAN TXS114	2X	23716	138	101	29.3	65
TROJAN TXS115A	2X	20812	125	91	27.7	84
VORIS 2651	2X	21296	155	113	34.2	75
VPI 648	4X	20328	148	108	33.6	86

Cooperators: Evans Scyphers and Richardson Bros. Farms Plot Size: 30' x 3' single-row plots, 4 replications. Planting Date: May 1, 1979 Harvest Date: Oct. 18, 1979. Fertilization: 140 lbs./A actual N at planting. Herbicides: 1.5 lbs. AATrex/A; 1 qt. Lasso/A at planting. Growing Conditions: Precipitation was heavy and temperatures were somewhat cool during the early part of the growing season. A slight moisture stress following the silking period was evident.

TABLE 20. CORN VIRUS TEST, WINGINA 1979

HYBRID	HYBRID TYPE	PLANTS/ ACRE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	* VIRUS SCORE	** PERCENT INFECTED PLANTS
AUGUSTA A300	2X	21901	99	100	24.2	88	2.1	22
BECK 87MDM	M2X	21901	110	111	24.6	97	1.3	8
B73 X PA91	2X	21296	29-	29	27.7	33	7.2	98
DEKALB XL394	3X	22022	91	92	31.9+	96	1.5	18
DEKALB XL72B	2X	20570	113	114	24.8	95	1.3	14
DEKALB XL72BB	2X	21780	102	104	27.2	87	3.2	64
DENNIS M19	2X	21780	105	106	26.3	87	2.0	21
FUNK'S G4525A	2X	21538	106	107	22.5-	93	1.5	14
FUNK'S G4740	2X	20933	87	88	30.7+	79	1.8	19
FUNK'S G4776	3X	21901	117	119	26.2	97	1.0	2
JACQUES JX247	2X	20812	41-	42	27.8	49	5.7	87
JACQUES JX250	2X	19965	83	84	25.3	71	3.5	53
KENWORTHY KL-X73	2X	19965	118	120	23.4	94	1.3	16
KENWORTHY KL-X73A	2X	21538	116	117	21.4-	85	1.5	15
LONGEST 3X6	3X	20449	98	100	21.6-	89	1.5	18
MCCURDY 77-28	3X	21901	95	97	22.5-	92	1.3	9
MCCURDY 77-51	3X	22385	109	111	27.5	95	1.5	16
MCCURDY 78-164	3X	21417	89	91	27.7	70	2.3	29
MCCURDY 7878	2X	22143	126	128	24.5	97	1.2	8
NORTHRUP KING PX707	3X	21417	47-	47	26.2	46	5.2	80
NORTHRUP KING PX79	2X	21538	120	121	23.4	91	1.5	12
NORTHRUP KING PX87	2X	20328	30-	30	26.8	34	6.7	96
NORTHRUP KING PX95	2X	21659	85	86	28.8+	72	2.2	18
O'S GOLD SX3344	2X	21901	93	94	22.5-	69	2.8	42
O'S GOLD SX5255	2X	20570	85	86	23.5	77	2.1	21
O'S GOLD SX5353	2X	21417	62-	63	22.5-	50	5.8	99
PAG EXP266010	2X	21538	116	117	23.2	88	1.6	11
PAG SX17A	2X	22143	131+	133	23.9	95	1.0	3
PAG SX346	2X	22264	97	99	22.6-	62	2.3	25
PIONEER BRAND X5505	M3X	22143	129+	131	29.6+	92	1.5	19
PIONEER BRAND 3145	3X	22264	126+	128	28.3+	99	1.1	6
PIONEER BRAND 3147	M2X	21780	131+	133	31.0+	88	1.8	18
PIONEER BRAND 3179	M2X	21659	135+	136	26.2	91	1.5	12
PIONEER BRAND 3364	M2X	21901	109	110	24.6	87	1.9	17
SOUTHERN STATES SS2596	M2X	21296	126+	128	28.7+	91	1.6	20
SOUTHERN STATES SS710	3X	22143	132+	134	22.5-	96	1.2	11
TAYLOR-EVANS TE6945	2X	21417	86	87	24.0	82	1.9	31
THOMPSON 221	2X	21538	116	118	22.5-	82	1.6	13
TROJAN MDM116	2X	22022	96	97	24.4	84	2.0	21
USS AGRI-CHEMICALS USS2461	3X	22143	114	116	22.8	91	1.5	16
VCIA 10	4X	21659	91	92	25.2	80	3.2	43
VCIA 9	4X	21901	94	95	23.3	83	2.7	34
VPI 648	4X	20449	37-	37	26.9	51	6.3	91
Experiment Average		21518	98	100	25.4	81	2.4	30
L.S.D. (.05)				26				

Cooperators: C. W. Woods and C. W. Roane. Plot Size: 30' x 2.5' single-row plots, 4 replications. Planting Date: April 23, 1979. Harvest Date: Oct. 2, 1979. Soil Test: pH-5.1, Ca-M; Mg-M; P-VH; K-H. Fertilization: 300# 0-18-36/A 130 lbs. actual N/A. Herbicides: 3# Sutan/A plus 2# AATrex. Growing Conditions: Moisture was adequate during the early growing season. Johnsongrass was chopped from the test area when the corn was knee-high. This trial was rated for virus disease by Dr. C. W. Roane of the Plant Pathology and Physiology Dept. at VPI & SU on July 19, 1979.

*1 = No apparant 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 21. CORN VIRUS TEST, WINGINA TWO YEAR AVERAGES

HYBRID	HYBRID TYPE	YIELD BU/A	RELATIVE YIELD	HARVEST MOISTURE	PERCENT ERECT	VIRUS SCORE	PERCENT INFECTED PLANTS
AUGUSTA A300	2X	101	87	21.2	91	1.5	16
BECK 87MDM	M2X	119	103	22.1	95	1.2	6
DEKALB XL394	3X	119	103	29.1	96	1.4	12
DEKALB XL72B	2X	121	105	22.6	96	1.3	10
DEKALB XL72BB	2X	107	93	23.6	92	2.6	43
FUNK'S G4776	3X	115	99	23.9	96	1.1	3
KENWORTHY KL-X73	2X	102	88	20.5	93	1.6	18
NORTHRUP KING PX79	2X	115	99	21.3	94	1.6	11
NORTHRUP KING PX95	2X	95	82	26.0	83	1.8	13
PAG SX17A	2X	131	113	21.6	96	1.0	2
PAG SX346	2X	100	87	19.8	77	1.8	16
PIONEER BRAND X5505	M3X	134	116	26.7	94	1.5	13
PIONEER BRAND 3145	3X	123	106	26.1	99	1.2	5
PIONEER BRAND 3147	M2X	138	120	26.5	92	1.4	12
PIONEER BRAND 3179	M2X	131	113	24.0	92	1.5	11
PIONEER BRAND 3364	M2X	114	99	22.1	92	1.6	11
TAYLOR-EVANS TE6945	2X	91	78	20.5	88	1.7	19
THOMPSON 221	2X	115	99	20.7	86	1.4	9
Group Average		115		23.2			

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