1956 VIRGINIA CORN PERFORMANCE TESTS

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Corn Performance Tests in Virginia in 1956

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Introduction

The results of the 1956 corn hybrid performance tests conducted in Virginia are presented in this report. The tests were designed primarily to evaluate under Virginia conditions corn hybrids which are commercially available in Virginia. Included in these tests are privately controlled hybrids, commercial hybrids developed by State and Federal agencies, and experimental hybrids developed by the Virginia Agricultural Experiment Station.

Recommendations of hybrids for the 1957 season which are given in this report are based on the results obtained in the tests reported herein and similar tests conducted in previous years. Hybrids must be tested in Virginia at least two years before they are eligible for recommendation.

An attempt is being made to test for one or more years all hybrids sold in Virginia. However, there is no intent to imply that hybrids not included in these tests will not perform well under Virginia conditions.

Areas of Virginia

The State of Virginia has been divided into several growing regions for the purpose of testing corn hybrids and making recommendations thereof. Three main subdivisions have been made primarily due to differences in elevation of the area. The Coastal Plain area in eastern Virginia is flat and near sea level and extends westward to the Tidewater or Fall Line. The Piedmont extends from the Fall Line westward to the Blue Ridge Mountains, increases gradually in elevation and becomes more rolling. Highest elevations in the Piedmont are around 1,200 feet. The western or West of the Blue Ridge area contains elevations up to 3,500 feet or more but the principal farming areas are in the broad valleys between mountain ranges at elevations of 1,000 to 2,500 feet. Both the Coastal Plain and Piedmont areas have been subdivided into Northern and Southern regions with the James River the approximate line of division.

Most Important Corn Diseases in Virginia

Plant diseases have been one of the major problems in corn production in Virginia. Under the summer conditions of high temperatures and high humidity which are common in the Coastal Plain area, stalk rot has resulted in serious breakage in most years, and particularly in years that hurricanes have traveled up the eastern coast. Southern leaf blight has also been serious on susceptible hybrids in the area in years of normal or excessive rainfall.

Stalk rot is probably the most serious disease of corn in the Piedmont areas. Northern leaf blight is the most serious disease west of the Blue Ridge, particularly in the lower parts of the valleys where dew fall is heavy and the plants do not dry quickly in the morning. Severe leaf blight seems to make the plants more susceptible to stalk and ear diseases. Ear rots are prevalent in all areas.

The corn disease complex is much more severe than in areas of the corn belt using hybrids of similar maturity, and most of the imported have shown objectionable susceptibility to corn diseases in Virginia.

Yields have undoubtedly been affected by susceptibility to prevalent diseases, but the susceptibility to ear rot organisms, which is reflected primarily in quality ratings, is the principal disease factor used directly in considering eligibility for recommendation.

Experimental Procedure

Every effort was made to obtain unbiased comparisons of the hybrids being tested. Cultural practices used in each test were largely determined by the cooperator who conducted the test. Cooperators and pertinent cultural data are included at the end of the table for each location.

Two or more tests with common entries were tested in each of the area subdivisions of the state. All of these tests contained 81 entries which were planted in a nine by nine triple lattice design using one row plots approximately 30 feet long. All plots were planted and thinned by hand. In several of the tests, the tests were thinned to two different rates of planting, each containing three replications in a triple lattice design.

Tests were harvested at the usual stage of maturity for the most important hybrids in the region. This is undoubtedly a handicap for the early hybrids in comparing both standability and quality.

Seed of privately controlled hybrids were obtained directly from the companies developing those hybrids, and seed of open pedigreed commercial hybrids were obtained principally from certified seed growers.

Data were recorded as follows:

1. Yield - Yields are recorded as bushels per acre of shelled corn at 15-1/2% moisture. Corrections for stand were made in tests with major stand variation.

2. Moisture at harvest - Two rows of kernels were removed from 6 to 8 ears from each replication chosen at random. In some cases ears from two replications were combined in a single moisture sample

taken from these two replications. The average moisture for each hybrid was used in calculating its yield.

3. Lodged and broken stalks - Plants were counted as lodged if they leaned 45 degrees or more. Plants were counted as broken only if they were broken below the ear.

4. Quality of grain - After the corn was harvested from the plot it was weighed and placed on the ground at the end of the row. Quality of grain was then rated by visual observation.

Interpretation of Data

Data are reported in estimated order of maturity for each test based on moisture at harvest. Differences in yield necessary for significance were calculated by the multiple range test method and all hybrids not significantly different from the top-yielding hybrid are starred.

Although the individual year's data are of importance, particularly to people who are responsible for the development of hybrids, several years data are more indicative of the hybrid's ability to perform in a given area. For popular use the data obtained from these various tests must be eventually interpreted in comparative terms. Descriptive summary tables for each region for hybrids tested during the past five years are being assembled for a later report.

Corn Hybrids Recommended for Planting in Virginia in 1957

Coastal Plain

Southern Coastal Plain: (South of James River)

Full Season:

Yellow: U.S. 578; U.S. 262 or 262A; Funk G704; Wood V51A(1); Pioneer 309A; Wood V44

White: VPI 900W

Medium Early:

Yellow: VPI 645; VPI 646; VPI 648(3); Funk G134; Funk G91; U.S.505

White: Pioneer 510; Wood V125W; U.S. 523W, VPI 730W

Early:

Yellow: VPI 426; Ohio C54; Southern States Pocahontas; Ohio W64(1)

Silage:(4) N.C. 1032; Dixie 33; or any full season or medium early hybrid which is recommended for grain.

Northern Coastal Plain: (North of James River)

Full Season:

Yellow: Wood V44; Funk G704; U.S.262 or U.S.262A; Pioneer 309A; U.S. 578(1)

White: VPI 900W

Medium Early:
Yellow: VPI 648(3); VPI 646; VPI 645; Funk G134; Funk G91; U.S.505
White: Pioneer 510; Wood V125W; U.S.523W, VPI 730W

Early:
Yellow: VPI 426; Ohio C54; Southern States Pocahontas; Ohio W64(1)
Silage:(4) U.S.578; N.C.1032; Dixie 33; or any full season or medium early hybrid which is recommended for grain.

Piedmont

Southern: (South of James River)

Full Season:
Yellow: U.S.262 or U.S.262A; Funk G134; Funk G704; Wood V44; Pioneer 312A
White: Wood V125W; Southern States 903W, VPI 730W

Medium Early:
Yellow: VPI 648(3); VPI 645; VPI 646; U.S.505; Pioneer 301A;

Early:
Yellow: VPI 426; Ohio C54; Southern States Pocahontas

Northern: (North of James River)

Full Season:
Yellow: VPI 648(3); VPI 646; VPI 645; U.S. 505; Funk G134; Wood V44: DeKalb 630; Pioneer 301A; Funk G91
White: Pioneer 510; Southern States 903W, VPI 730W

Medium Early:
Yellow: VPI 426; Funk G76; Ohio C54; Ohio W64(1)
Silage: (All Piedmont)(4)
Yellow: U.S. 262 or U.S. 262A; U.S. 578 or any full season hybrid, such as VPI 646 or U.S.505, recommended for grain.

West of the Blue Ridge

Full Season: (For elevations less than 2500 feet or similar climatic conditions)
Yellow: VPI 645; VPI 646; VPI 648(3); U.S.505; U.S.13; Funk G91; Funk G 134; Wood V26(1)
White: VPI 730W
Medium Early:
Yellow: VPI 426; Ohio W64; Ohio C54; Pioneer 342A; Funk G76

Early: (For higher elevations - will generally mature two weeks earlier than U.S.13)
Yellow: Wisconsin 412; Wisconsin 355; Pa. 444

Silage:(4)

Yellow: U.S. 262 or U.S. 262A(2); U.S. 578 (2); Any full season hybrid, such as VPI 646 or U.S. 505, recommended for grain.

(1) Will not be recommended after 1957
(2) For low elevations with long growing seasons
(3) No seed available in 1957
(4) Full season grain hybrids when used for silage and planted at around 16,000 plants per acre have produced as much total feed per acre as later hybrids and the silage has contained a somewhat higher percentage of grain.

NOTE

In most of the tables which follow, yields of grain are given both as "Bushels per acre" and as "Percent of check." The "check" in each case represents the average yield of the hybrids tested which were recommended for planting in 1956 in the area of the test.

Petersburg Corn Hybrid Test, 1956
(13,500 plants per acre)

Hybrid	Days to Mid Silk	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
S.St.Mohawk	75	12	25	14	2.3	61.2	90
DeKalb 896	73	0	54	15	2.0	76.2*	113
Pioneer 305	73	2	9	15	3.0	62.8	93
Funk G75A	70	1	13	15	2.7	60.4	89
PAG 401	72	4	16	15	2.7	68.7*	102
Va.528	74	12	41	16	2.3	75.0*	111
S.St.Pocahontas	73	12	13	16	3.0	56.2	83
Ohio W64	69	2	2	16	3.0	56.9	84
Ohio C54	68	9	7	16	2.0	62.8	93
Va.900c	75	17	23	16	2.7	73.8*	109
Funk G144	73	12	17	16	2.3	65.4	97
Pioneer X1363	76	0	10	16	2.3	72.0*	106
Va.518	70	7	14	16	2.0	67.3	99
Va.1238W	73	10	24	16	1.7	77.2*	114
Wood V26Y	74	4	18	16	3.0	55.4	82
Va.524	76	16	17	16	3.0	82.9*	123
Pioneer 312A	76	3	33	16	2.3	66.0	98
DeKalb 876	76	5	24	16	2.7	64.0	95
Va.143	74	3	8	17	1.7	72.4*	107
VPI 645	75	10	30	17	2.7	71.3*	105
Va.526	74	12	6	17	2.3	71.7*	106
Pioneer 505	80	0	14	17	2.3	64.6	95
Pioneer 2990	72	2	25	17	2.0	60.1	89
Funk G134	73	0	25	17	2.3	68.1	101
Funk G50	70	0	20	17	2.3	56.0	83
Va.310	70	0	24	17	1.7	61.7	91
Funk G91	73	2	15	17	3.0	65.7	97
Wood V30	72	11	26	17	2.3	82.0*	121
Pioneer 301A	70	8	17	17	2.3	71.0*	105
Va.520	75	2	3	17	3.0	50.6	75
VPI 730W	75	4	19	17	2.0	73.5*	109
Va.3037	69	9	25	17	1.3	86.8*	128
Va.402	72	13	12	17	1.7	72.7*	107
US 505	74	9	20	17	2.0	68.7*	102
PAG 633W	75	5	31	18	1.3	77.4*	114
Va.645D	74	5	25	18	2.0	71.1*	105
Va.148d	73	20	17	18	1.7	81.7*	121
Supercross 1005A	76	0	36	18	2.0	70.6*	104
Va.417	72	9	21	18	1.0	57.3	85
Va.3039	70	6	15	18	2.3	67.9	100
VPI 426	72	0	6	18	2.7	52.8	78
Wood V125W	78	13	35	18	2.3	66.1	98
DeKalb 1024	77	6	66	18	1.7	78.0*	115
Va.148A	73	16	20	18	2.3	75.9*	112
Va.533	71	15	8	18	2.3	78.0*	115

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Petersburg Test (Contd.)

Hybrid	Days to Mid Silk	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.646B	74	13	31	18	1.7	81.0*	120
Va.531	70	29	19	18	2.3	71.5*	106
Ky.204	74	5	28	18	1.3	79.6*	118
DeKalb 837	73	4	9	18	3.0	58.6	87
Va.530	72	23	10	18	2.3	72.3*	107
PAG 444	74	2	19	18	2.3	72.0*	106
Va.3032	70	5	18	18	1.7	77.7*	115
US 262A	79	4	38	18	2.7	71.3*	105
Pioneer 510	79	4	25	18	2.0	69.6*	103
VPI 900W	76	7	19	18	2.0	78.7*	116
Funk G704	74	6	17	19	2.0	68.4	101
DeKalb 1051	80	6	23	19	1.3	74.7*	110
VPI 648	71	5	12	19	2.0	66.4	98
VPI 646	73	11	23	19	2.0	76.2*	113
US 523W	76	5	23	19	1.7	77.5*	115
S.St.Potomac	78	11	32	19	1.7	71.3*	105
Va.523	73	10	20	19	1.7	63.8	94
Va.0174W	76	17	2	19	1.3	75.5*	112
Va.401	74	9	14	19	1.7	58.0	86
Va.1232W	74	8	29	19	2.7	74.7*	110
PAG 636W	76	3	36	19	1.7	77.7*	115
Va.403	73	18	26	19	1.7	60.8	90
Va.900a	79	11	33	19	3.0	78.7*	116
Wood V44	75	4	15	19	1.7	76.1*	112
Va.900d	79	6	23	20	2.3	68.5*	101
Wood V51A	75	14	49	20	2.0	67.6	100
PAG 486	80	0	39	20	1.7	69.1*	102
Ky.204	74	4	18	20	1.7	67.8	100
Pioneer 309A	79	4	26	20	1.3	70.5*	104
Va.534A	79	1	18	20	1.7	70.5*	104
Funk G706	73	6	28	20	2.3	62.9	93
Va.900b	76	15	24	20	2.0	77.2*	114
US 578	77	5	27	21	2.0	69.3*	102
Va.534	75	12	15	21	2.3	70.2*	104
DeKalb 893	79	0	52	22	2.3	75.9*	112
US 631	78	9	38	22	2.7	55.7	82
Average of test	74	7.5	22.3	17.8	2.1	69.6	

(1) Quality scored 1 = very good to 5 = very poor.
* Starred hybrids not significantly different in yield from highest yielding hybrid.

Cooperator: M. T. Carter
Three reps, 38" x 37.7'
Fertilizer: 600# 10-10-10 plus 100# N side-dressed
Growing conditions: Dry June and early July.

Date planted: April 30 and 31.
Plant population: 13,500

Petersburg Corn Test - 1956
(Higher rate of planting)

Hybrid	Days to mid silk	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.520	77	1	12	15	3.3	58.0	76
Ohio W64	71	5	11	15	3.0	60.6	79
S.St.Mohawk	73	12	15	15	2.7	56.1	73
Va.526	78	7	12	15	2.7	79.6*	104
Funk G50	72	7	16	15	2.7	73.5	96
Funk G75A	71	0	21	15	3.0	72.2	94
PAG 401	76	6	14	15	3.3	72.0	94
Va.518	76	2	15	15	2.7	77.8	102
Va.645D	75	7	39	15	2.7	88.5*	116
Va. 417	76	5	28	16	2.3	63.0	82
Pioneer 301A	75	0	24	16	3.0	63.6	83
Va.310	74	6	24	16	2.0	77.0	101
Pioneer 2990	74	6	23	16	2.7	77.7	102
Pioneer X 1363	79	0	31	16	2.7	72.4	95
Ohio C54	75	8	18	16	2.3	77.6	102
DeKalb 876	75	6	26	16	3.0	81.5*	107
Pioneer 312A	75	6	12	16	2.0	86.4*	113
Wood V26Y	74	12	13	16	2.7	77.9	102
US 523W	78	18	35	16	2.7	88.6*	116
Funk G144	70	7	8	17	2.7	86.8*	114
Funk G91	76	3	24	17	2.3	69.3	91
DeKalb 1051	85	7	25	17	1.3	77.9	102
Pioneer 505	80	4	14	17	2.7	77.9	102
Va.402	76	8	19	17	2.0	75.2	98
Funk G706	75	4	24	17	2.7	80.0*	105
S.St.Pocahontas	72	3	21	17	2.0	53.5	70
Va.3032	74	10	18	17	2.0	82.5*	108
Va.646B	74	14	32	17	2.7	80.0*	105
DeKalb 1024	84	3	68	17	2.3	79.4*	104
Supercross 1005A	79	2	34	17	3.0	88.0*	115
PAG 636W	79	3	35	17	2.7	78.3	102
Pioneer 510	82	11	19	17	2.3	78.7*	103
VPI 648	72	6	14	17	2.3	82.5*	108
Va.3039	72	11	15	17	2.0	88.0*	115
Va.3037	74	6	24	17	2.0	85.5*	112
Wood V125W	78	20	46	17	2.3	79.6*	104
US 262A	79	9	38	17	2.0	73.2	96
Va.530	75	3	17	17	2.7	80.5*	105
Wood V30	75	20	13	17	2.7	84.9*	111
US 505	75	4	20	17	2.3	91.7*	120
Va.533	74	7	10	17	2.7	79.7*	104
Va.524	79	15	17	17	2.3	82.2*	108
Va.0174W	79	6	46	17	1.7	82.6*	108
Ky.204	79	2	32	17	2.7	72.2	94
Va.900c	78	10	25	17	3.0	78.1	102

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Petersburg Test (Contd.)

Hybrid	Days to mid silk	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Pioneer 305	76	1	19	17	2.7	76.4	100
Va.528	76	8	33	18	2.7	76.3	100
Va.401	73	5	12	18	2.3	77.3	101
VPI 426	74	4	13	18	1.7	72.2	94
DeKalb 896	76	3	50	18	2.7	78.1	102
Va.143	76	5	10	18	2.0	76.8	100
PAG 444	76	0	19	18	2.7	83.8*	110
DeKalb 837	76	2	13	18	2.7	68.3	89
S.St.Potomac	78	2	63	18	2.7	74.8	98
VPI 646	76	9	20	18	2.3	80.4*	105
PAG 633W	78	4	22	18	2.0	84.0*	110
VPI 645	78	2	23	18	2.7	76.0	99
VPI 730W	78	3	41	18	2.3	79.1*	103
Va.900a	79	8	29	18	2.3	80.6*	105
Pioneer 309A	-	2	20	18	1.7	85.9*	112
Funk G134	78	4	26	18	3.0	73.7	96
Va.1238W	78	8	38	18	2.3	81.1*	106
DeKalb 893	79	10	37	18	1.3	97.1*	127
Va.148d	72	4	16	18	2.0	84.4*	110
Va.148a	76	8	28	18	2.0	79.8*	104
Ky.204	75	2	18	18	1.7	82.6*	108
Va.900b	78	6	22	18	2.0	80.3*	105
Va.900d	80	8	21	18	2.3	83.8*	110
Va.523	75	13	16	19	2.3	86.7*	113
Wood V44	78	6	24	19	1.7	79.5*	104
VPI 900W	80	12	35	19	1.7	82.3*	108
Va.531	73	11	33	19	2.3	80.3*	105
US 631	80	7	42	19	2.7	75.4	99
US 578	79	4	30	19	2.3	76.4	100
Funk G704	76	5	11	20	3.0	68.6	90
Va.1232W	76	11	28	20	2.3	74.5	97
Va.403	75	6	22	21	1.7	69.8	91
Va.534A	80	8	30	21	1.3	68.3	89
Wood V51A	78	15	38	21	1.3	88.3*	115
PAG 486	80	0	47	22	1.3	85.4*	112
Va.534	79	4	16	22	2.7	62.7	82
Mean recom.hybrids		7.7	24.9	17.6	2.3	76.5	

(1) Quality scored from 1 = very good to 5 = very poor.
* Starred hybrids not significantly different in yield from highest yielding hybrid.
Cooperator: M. T. Carter
Three reps, 38" x 37.7' plots.
Date planted: April 30 and 31
Plant population: 17,500
Fertilizer: 600# 10-10-10 plus 100# N side-dressed
Growing conditions: Dry June and early July.

Petersburg Corn Hybrid Test - 1956
(Two rates of planting combined) (1)

Hybrid	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (2)	Average Yield Bu/A	Average Yield % of Check
S. St. Mohawk	12	20	15	2.5	58.7	81
Ohio W64	4	7	15	3.0	58.8	82
Funk G75A	1	17	15	2.9	66.3	92
PAG 401	5	15	15	3.0	70.4	98
Va. 518	5	14	16	2.4	72.6	101
Va.526	10	9	16	2.5	75.7	105
Ohio C54	8	13	16	2.2	70.2	97
Va.520	2	8	16	3.2	54.3	75
Pioneer X 1363	0	20	16	2.5	72.2	100
S.St.Pocahontas	8	17	16	2.5	54.9	76
Pioneer 305	14	24	16	2.9	76.0	105
Funk G50	3	18	16	2.5	64.8	90
Wood V26Y	8	15	16	2.9	66.7	93
DeKalb 876	5	25	16	2.9	72.8	101
Pioneer 312A	4	23	16	2.2	76.2	106
Funk G144	9	13	16	2.5	76.1	106
DeKalb 896	2	52	16	2.4	77.2	107
Pioneer 301A	4	20	16	2.7	67.3	93
Va.310	3	24	16	1.9	69.4	96
Pioneer 2990	4	24	16	2.4	68.9	96
Va.528	10	37	16	2.5	75.7	105
Va. 645D	6	32	16	2.4	79.8	111
Va.900C	14	24	17	2.9	76.0	105
Va.417	7	24	17	1.7	60.2	84
Va.524	15	17	17	2.7	82.6	115
Funk G91	3	20	17	2.7	67.5	94
Pioneer 505	2	14	17	2.5	71.3	99
Va.402	11	16	17	1.9	74.0	103
Va.3037	7	25	17	1.7	86.2	120
Wood V30	15	19	17	2.5	83.5	116
Va.143	4	9	17	1.9	74.6	104
Supercross 1005A	1	35	17	2.5	79.3	110
Va. 1238 W	9	31	17	2.0	79.2	110
US 505	6	20	17	2.2	80.2	111
VPI 645	6	27	17	2.7	73.7	102
Va.3039	9	15	17	2.2	78.0	108
Wood V125W	17	41	17	2.3	72.9	101
Va.646B	13	32	17	2.2	80.5	112
DeKalb 1024	5	67	17	2.0	78.7	109
Va.3032	8	18	18	1.9	80.1	111
US 262A	7	38	18	2.4	72.3	100
Va.530	13	13	18	2.5	76.4	106
Va.533	11	9	18	2.5	78.9	110
US 523W	12	29	18	2.2	83.1	115
DeKalb 1051	7	24	18	1.3	76.3	106

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Petersburg Test (Contd.)

Hybrid	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (2)	Average Yield Bu/A	Average Yield % of Check
Funk G134	2	26	18	2.7	70.9	98
Pioneer 510	8	22	18	2.2	74.2	103
VPI 426	2	10	18	2.2	62.5	87
VPI 730W	4	30	18	2.2	76.3	106
VPI 648	6	13	18	2.2	74.5	103
PAG 633W	5	27	18	1.7	80.7	112
PAG 636W	3	35	18	2.2	78.0	108
DeKalb 837	3	11	18	2.9	63.5	88
Va.148d	12	17	18	1.9	83.1	115
Va.0174W	12	24	18	1.5	79.1	110
PAG 444	1	19	18	2.5	77.9	108
Va.148a	12	24	18	2.2	77.9	108
Ky.204	4	24	18	1.9	75.6	105
S.St.Potomac	7	48	18	2.2	73.1	101
VPI 646	10	22	18	2.2	78.3	109
Va.401	7	13	18	2.0	67.7	94
Funk G706	6	26	19	2.5	71.5	99
VPI 900W	10	27	19	1.9	80.5	112
Va.900a	10	31	19	2.7	79.7	111
Va.523	11	18	19	2.0	75.3	105
Va.531	20	26	19	2.3	75.9	105
Pioneer 309A	3	22	19	1.5	78.2	109
Wood V44	5	19	19	1.7	77.8	108
Va.900d	7	22	19	2.3	76.2	106
Funk G704	6	14	19	2.5	68.5	95
Va.900b	11	23	19	2.0	78.8	109
Va.1232W	9	29	20	2.5	74.6	104
DeKalb 893	5	44	20	1.8	86.5	120
Va.403	12	24	20	1.7	65.3	91
US 578	5	28	20	2.2	72.9	101
Va.534A	5	24	20	1.5	69.4	96
Wood V51A	15	44	20	1.7	78.0	108
PAG 486	0	43	21	1.5	77.3	107
Va.534	8	15	22	2.5	66.5	92
US 631	8	40	21	2.7	65.6	91
Average:						
13,000 plants/acre	7.5	22.3	17.8	2.14	69.6	
17,000 plants/acre	6.5	24.9	17.4	2.37	77.8	

(1) Very little difference or variation in performance between rates of planting.
(2) Quality scored from 1 = very good to 5 = very poor.

Growing conditions: Favorable except drouth during first part of silking period which delayed silking of early hybrids.

Holland Corn Hybrid Test - 1956

Hybrid	Days to Mid-silk	Plants Lodged %	Plants Broken %	Ear Height (Inches)	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check (2)
Ohio W64	70	0	0	30	19	2.8	72.3	70
Pioneer 305	80	0	2	30	20	2.8	83.5	81
Pioneer 2990	78	2	2	30	20	2.0	112.1	108
Va. 524	81	9	4	36	20	2.6	111.7	108
DeKalb 876	80	7	8	27	21	2.4	93.5	90
Va. 900C	79	11	3	33	21	2.2	112.2	108
V.P.I. 730W	78	10	2	33	21	1.8	113.6*	110
U.S.505	80	8	2	32	21	2.2	105.7	102
Pioneer 510	81	5	3	38	21	1.9	125.2*	121
DeKalb 896	80	17	11	36	21	2.2	105.1	102
Va. 520	80	0	0	31	21	3.1	67.5	65
Wood V125W	82	18	17	33	21	2.1	102.8	99
Funk G50	78	1	3	25	21	2.1	88.8	86
Ohio C54	76	0	0	27	21	2.7	74.2	72
PAG 401	78	3	3	31	21	2.0	107.0	103
Va. 533	78	0	0	33	21	2.0	113.5*	110
S.St.Pocahontas	79	6	3	27	21	2.2	81.4	79
V.P.I. 426	76	0	0	24	21	2.8	82.8	80
Funk G75A	74	0	1	24	21	2.4	77.0	74
Funk G91	78	3	2	29	21	2.2	102.5	99
Va.148A	80	11	3	32	22	1.9	102.1	99
Va.1232W	80	16	11	34	22	1.8	121.2*	117
Pioneer 312A	81	3	4	32	22	1.8	116.1*	112
Wood V44	79	3	2	31	22	1.7	101.7	98
Pioneer 505	82	7	12	33	22	20	114.7*	111
PAG 636W	82	13	9	33	22	2.0	110.1	106
U.S.523W	80	15	7	33	22	1.7	116.2*	112
Funk G704	81	4	6	28	22	2.2	104.0	100
Pioneer X1363	80	3	6	30	22	2.1	103.5	100
Va.417	79	4	6	31	22	2.2	80.9	78
Va.1238W	79	11	8	32	22	1.7	122.1*	118
Pioneer 301A	77	2	4	32	22	1.8	109.7	106
V.P.I. 648	77	3	1	31	22	1.9	110.8	107
Funk G134	77	2	0	31	22	2.0	115.4*	111
Wood V26Y	78	2	2	28	22	2.7	88.5	85
Va. 148d	76	3	1	30	22	2.4	107.2	104
DeKalb 837	77	2	2	30	22	2.7	97.3	94
Va.518	76	0	0	31	22	2.3	93.5	90
Va.3039	76	5	1	31	22	1.5	112.2	108
Va.310	77	2	3	29	22	2.2	88.7	86
Va.646B	79	11	2	32	22	2.2	112.2	108
Wood V30	76	6	0	31	22	1.9	113.5*	110
Va.526	79	0	0	32	22	2.2	109.5	106
Va.3032	78	5	3	30	22	2.0	101.4	98
S.St.Mohawk	79	3	6	24	22	2.0	89.6	87

Continued on next page

Holland Test (Contd)

Hybrid	Days to Mid-silk	Plants Lodged %	Plants Broken %	Ear Height (Inches)	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check (2)
Va.402	77	3	3	31	22	1.8	104.4	101
Supercross 1005A	79	3	8	33	23	2.4	112.6	109
V.P.I. 645	79	5	4	29	23	2.0	96.9	94
Va.900A	81	21	7	34	23	2.0	124.7*	120
S.St.Potomac	81	22	18	33	23	1.8	111.7	108
Va.900b	81	19	4	34	23	1.8	115.5*	112
Va.O 174W	78	25	9	35	23	1.8	121.7*	118
V.P.I. 900W	81	20	9	34	23	1.7	127.2*	123
Va. 403	80	9	2	30	23	1.8	106.7	103
DeKalb 1051	83	7	1	44	23	1.8	108.7	105
Va.523	78	9	4	29	23	2.0	103.6	100
Va.143	77	2	0	32	23	1.7	119.1*	115
Va. 645d	78	12	6	31	23	2.0	116.7*	113
Va.3037	79	11	2	32	23	1.5	118.7*	115
Va.528	77	3	2	34	23	1.7	123.5*	119
Funk G706	76	9	6	32	23	2.1	108.8	105
Funk G144	76	1	0	30	23	1.7	109.9	106
U.S. 631	81	18	18	32	24	1.8	111.0	107
U.S.262A	83	14	19	33	24	1.8	103.8	100
PAG 486	83	10	13	35	24	1.8	104.2	101
U.S.578	81	22	15	40	24	1.8	113.8*	110
DeKalb 893	82	17	8	33	24	2.1	118.1*	114
Va.900d	83	18	11	34	24	1.8	126.0*	122
VPI 646	78	5	2	33	24	2.0	114.2*	110
DeKalb 1024	81	22	26	34	24	1.8	112.4	109
Va.534	80	15	7	33	24	2.2	106.1	102
Va. 401	77	5	2	31	24	1.5	121.9*	118
Va. 530	78	6	3	29	24	1.5	111.4	108
Ky. 204	79	5	2	33	24	1.7	105.0	101
Va. 531	78	3	2	32	24	1.6	110.4	107
Va. 534a	84	14	13	33	25	1.8	110.4	107
Wood 51A	80	35	22	35	25	1.5	107.5	104
Pioneer 309A	84	11	3	34	25	1.7	117.9*	114
PAG 633W	78	13	4	34	26	1.6	110.5	107
PAG 444	78	1	1	29	26	1.9	108.7	105
Mean of test		8	5	32	22	2.0	106.6	

* Not significantly different in yield from top-yielding hybrid.
(1) Quality scored 1 = very good to 5 = very poor.
(2) Check = average of all recommended varieties = 103.5

Cooperator: M. W. Alexander
Date planted: April 25 Date harvested: September 11 and 20
Six reps, rows 3' x 30' Planting rate: 14,500 plants per acre
700# 5-10-10 plus 100# N in split side-dress application
Growing conditions: Favorable except dry June and early July. Early hybrids hurt by drought at silking time.

Performance of Corn Hybrids Tested in the Southern Coastal Plain of Virginia
1956
(Petersburg and Holland)

Hybrid	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check (2)
Ohio W64	2	4	17	2.9	65.6	74
Pioneer 305	1	8	18	2.7	76.6	87
PAG 401	4	9	18	2.5	88.7	100
Pioneer 2990	3	13	18	2.2	90.5	102
Funk G75A	0	9	18	2.7	71.7	81
Funk G50	2	10	18	2.3	76.8	87
Ohio C54	4	7	18	2.5	72.2	82
DeKalb 876	6	17	18	2.7	83.2	94
Va. 524	12	10	19	2.7	97.2	110
Va. 900C	12	13	19	2.6	94.1	106
Va. 520	1	4	19	3.2	60.9	69
S. St.Mohawk	8	13	19	2.3	74.2	84
S.St.Pocahontas	6	10	19	2.4	68.2	77
DeKalb 896	10	31	19	2.3	91.2	103
Va. 518	2	8	19	2.4	83.1	94
Pioneer 301A	3	12	19	2.3	88.5	100
Wood V26Y	5	8	19	2.8	77.6	88
Funk G91	3	11	19	2.5	85.0	96
Va. 526	5	4	19	2.4	92.6	105
Pioneer 312A	4	13	19	2.0	96.2	109
U.S.505	7	11	19	2.2	93.0	105
V.P.I. 730W	7	16	19	2.0	95.0	107
Pioneer X 1363	1	14	19	2.3	87.9	99
Va. 533	6	5	19	2.3	96.2	109
Va. 310	2	13	19	2.1	79.1	89
Pioneer 505	4	13	19	2.3	93.0	105
Pioneer 510	6	12	19	2.1	99.7	113
Wood V125W	17	29	19	2.2	87.9	99
Va. 417	5	15	19	2.0	70.6	80
V.P.I. 426	1	5	19	2.5	72.7	82
DeKalb 1051	7	12	20	1.6	92.5	105
Wood V44	4	10	20	1.7	89.8	102
Va. 645D	10	19	20	2.2	98.3	111
Funk G134	2	13	20	2.4	93.2	105
V.P.I. 648	4	7	20	2.1	92.7	105
Va. 3039	7	8	20	1.9	95.1	108
Wood V30	11	10	20	2.2	98.5	111
Va. 528	6	19	20	2.1	99.6	113
Va. 402	7	9	20	1.9	89.2	101
Va. 1238W	10	20	20	1.9	100.7	114
Funk G144	5	7	20	2.1	93.0	105
Va. 646B	12	17	20	2.2	96.4	109
Va. 143	3	5	20	1.8	96.9	110
Va. 3032	6	10	20	2.0	90.8	103
Supercross 1005A	2	21	20	2.5	96.0	109

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Southern Coastal Plain Region (Contd.)

Hybrid	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check (2)
V.P.I. 645	6	16	20	2.4	85.3	96
U.S.523W	13	18	20	2.0	99.7	113
Va. 148A	12	13	20	2.1	90.0	102
Va. 3037	9	13	20	1.6	102.5	116
DeKalb 837	2	6	20	2.8	80.4	91
Va. 148d	8	9	20	2.2	95.2	108
PAG 636W	8	22	20	2.1	94.1	106
Va. 0174W	19	17	21	1.7	100.4	114
S.St.Potomac	14	33	21	2.0	92.4	105
Va. 523	10	11	21	2.0	89.5	101
U.S.262A	10	29	21	2.1	88.1	100
Va. 900A	15	19	21	2.4	102.2	116
Va.1232W	13	20	21	2.2	97.9	111
DeKalb 1024	13	46	21	1.9	95.6	108
Funk G704	5	10	21	2.4	86.3	98
Va. 530	10	8	21	2.0	93.9	106
Funk G706	7	16	21	2.3	90.2	102
V.P.I. 900W	15	18	21	1.8	103.9	118
V.P.I. 646	7	12	21	2.1	96.3	109
Ky.204	4	13	21	1.8	90.3	102
Va. 401	6	7	21	1.8	94.8	107
Va. 900b	15	13	21	1.9	97.2	110
Va. 900d	13	16	22	2.1	101.1	114
Va. 531	12	14	22	2.0	93.2	105
Va. 403	11	13	22	1.8	86.0	97
PAG 444	1	10	22	2.2	93.3	106
Pioneer 309A	7	13	22	1.6	98.1	111
DeKalb 893	11	26	22	2.0	102.3	116
PAG 633W	9	15	22	1.7	95.6	108
U.S.631	13	29	22	2.3	87.8	99
U.S.578	13	22	22	2.0	93.4	106
PAG 486	5	28	22	1.7	90.8	103
Va. 534A	9	18	23	1.7	89.9	102
Wood V51A	25	33	23	1.6	92.8	105
Va.534	11	11	23	2.4	86.3	98
Avg. of recommended hybrids	8	15	20	2.2	88.4	

(1) Quality scored from 1 = very good to 5 = very poor.
(2) Check = average of all recommended hybrids.

Performance of Corn Hybrids Tested in the Northern Coastal Plain of Virginia
1956 (Warsaw)

Hybrids	(1) Lodged + Broken 12000 Plants per A. (%)	Lodged + Broken 16000 Plants per A. (%)	(2) Moisture at harvest (%)	Quality Score (3)	Bushels/Acre 12000 Plants per A.	Bushels/Acre 16000 Plants per A.	Average Yield Bu/A	Average Yield % of Check
Supercross 668	18	20	19	1.8	80.9	73.8	77.4	88
Supercross 746	11	22	19	1.3	78.3	80.3	79.3	90
S.St.Mohawk	2	15	19	1.3	75.5	85.9	80.7	92
Supercross 670	1	22	19	1.5	69.9	82.1	76.0	87
S.St.Pocahontas	7	35	20	1.5	61.4	82.5	72.0	82
Supercross 500A	12	25	20	2.2	72.4	75.2	73.8	84
Supercross 700A	1	24	20	1.3	70.6	83.8	77.2	88
Ohio W64	5	6	20	1.4	60.5	83.2	71.9	82
Pioneer 338A	5	22	20	1.6	74.5	88.6	81.6	93
Pioneer 2990	15	24	20	1.0	84.7	88.6	86.7	99
Ohio C54	2	10	20	1.2	75.8	96.4	86.1	98
PAG 401	23	20	20	1.2	77.3	87.5	82.4	94
VPI 426	5	13	20	1.2	78.8	81.9	80.4	92
Supercross 840	14	21	20	1.2	77.7	82.5	80.1	91
Supercross 1005A	21	46	20	1.0	83.3	94.8	89.1	102
VPI 646	9	18	20	1.2	88.5	89.8	89.2	102
Va.646B	38	23	20	1.0	100.4	99.4	99.9	114
Va.518	8	20	20	1.0	85.1	90.3	87.7	100
Ky.105	16	20	21	1.0	88.8	98.8	93.8	107
Va.148d	9	8	21	1.3	81.2	93.6	87.4	100
Pioneer 510	20	23	21	1.0	88.8	93.2	91.0	104
VPI 730W	3	33	21	1.2	83.9	82.7	83.3	95
US 505	22	15	21	1.2	85.5	95.2	90.4	103
Supercross 880	5	12	21	1.5	75.1	83.8	79.5	91
Va.478	0	10	21	1.2	82.4	82.8	82.6	94
Pioneer X1363	24	28	21	1.2	94.2	96.5	95.4	109
Va.474	0	10	21	1.2	80.5	72.6	76.6	87
Va.645D	19	42	21	1.5	79.7	89.2	84.5	96
Va.900C	14	24	21	1.4	87.1	84.8	86.0	98
Funk G91	10	19	21	1.3	87.2	86.7	87.0	99
Va.417	5	25	21	1.0	77.6	93.8	85.7	98
DeKalb 876	30	40	21	1.3	84.0	88.3	86.2	98
VPI 648	12	16	21	1.0	85.8	92.9	89.4	102
Wood V125W	23	45	21	1.0	89.6	96.1	92.9	106
Va.900b	15	47	21	1.0	92.2	91.2	91.7	105
Wood V44	12	13	21	1.0	96.1	103.1	99.6	114
DeKalb 896	32	53	21	1.2	89.6	87.5	88.6	101
DeKalb 837	1	21	22	1.2	77.0	84.2	80.6	92
Va.310	4	22	22	1.3	71.2	87.5	79.4	91
US 523W	21	29	22	1.3	82.4	101.0	91.7	105
Funk G704	12	43	22	1.2	85.7	99.4	92.6	106
Pioneer 312A	14	20	22	1.0	88.4	98.3	93.4	107
Va.126t	10	10	22	1.3	91.2	86.7	89.0	101
Wood V26Y	12	14	22	1.2	82.3	80.5	81.4	93
Va.530	1	38	22	1.2	83.8	90.2	87.0	99

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Hybrids	(1) Lodged + Broken 12000 Plants per A. (%)	Lodged + Broken 16000 Plants per A. (%)	(2) Moisture at harvest (%)	Quality Score (3)	Bushels/Acre 12000 Plants per A.	Bushels/Acre 16000 Plants per A.	Average Yield Bu/A	Average Yield % of Check
Va.1238W	19	45	22	1.3	88.7	87.5	88.1	100
Va.3039	4	12	22	1.0	85.4	93.2	89.3	102
Funk G706	15	25	22	1.2	85.7	95.0	90.4	103
Va.402	19	26	22	1.3	72.3	86.3	79.3	90
Va.3037	14	26	22	1.2	84.6	92.5	88.6	101
Funk G134	8	18	22	1.0	86.8	99.6	93.2	106
Wood V30	4	12	22	1.5	88.5	91.5	90.0	103
Va.143	6	9	22	1.0	86.2	95.9	91.1	104
Wood V51A	27	71	22	1.0	91.3	89.8	90.6	103
Va.148A	25	26	22	1.0	86.6	95.4	91.0	104
Va.3032	11	13	22	1.0	83.5	91.3	87.4	100
VPI 645	10	22	22	1.0	84.1	89.0	86.6	99
Va.401	20	12	22	1.0	79.8	87.3	83.6	95
Funk G144	18	31	22	1.0	85.8	107.7	96.8	110
Pioneer 305	1	8	22	1.0	75.0	84.6	79.8	91
Va.900a	18	30	23	1.3	99.6	81.5	90.6	103
Va.1232W	12	47	23	1.3	90.0	80.7	85.4	97
Va.531	8	31	23	1.2	82.0	85.0	83.5	95
Va.403	8	22	23	1.0	75.8	90.9	83.4	95
PAG 636W	11	20	23	1.0	89.1	107.9	98.5	112
US 578	20	38	23	1.3	92.1	92.9	92.5	105
US 262A	48	71	23	1.0	83.5	90.3	86.9	99
Va.523	7	20	23	1.0	75.6	82.8	79.2	90
Va.528	7	30	23	1.0	80.6	92.3	86.5	99
VPI 900W	13	40	23	1.2	94.3	89.0	91.7	105
Pioneer 309A	3	24	24	1.0	94.9	88.6	91.8	105
PAG 633W	16	32	24	1.0	86.0	89.0	87.5	100
Va.900d	17	35	24	1.4	86.9	89.2	88.1	100
PAG 444	1	11	24	1.2	84.7	81.1	82.9	95
S.St.Potomac	37	43	24	1.0	83.2	87.5	85.4	97
DeKalb 1024	28	41	25	1.2	84.4	98.1	91.3	104
DeKalb 1051	27	21	25	1.0	85.7	85.4	85.6	98
Va.534a	28	28	25	1.0	84.2	95.5	89.9	103
DeKalb 893	33	36	26	1.0	89.0	91.5	90.3	103
Va.534	10	21	26	1.0	84.6	85.7	85.2	97
PAG 486	15	43	26	1.0	89.8	83.1	86.5	99
Average for tests	14	26	22	1.2	83.6	89.4	86.5	99

(1) Very little lodging in this test. Figures show total lodged and broken.
(2) Average of both rates of planting.
(3) Quality scored from 1 = very good to 5 = very poor.

Cooperator: H. M. Camper, Jr. Date planted: May 2
Fert. applied: 70-90-90 before planting Dates harvested: October 1 to 8.
Previous crop: Soybeans and wheat cover crop.
Rep: 3 at 12,000 plants per acre, 3 at 16000 plants per acre
Growing conditions: Cool after planting, below normal rainfall in August.
Heavy winds August 19 caused much breakage

Performance of Corn Hybrids, Chatham, 1956
(12,600 plants per acre)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Pioneer 342A	0	26	15	1.5	71.4	91
Ohio W64	0	18	15	1.5	75.2	96
Pioneer 338A	0	33	15	1.8	74.2	95
PAG 234	0	35	15	1.8	65.3	83
Pa 711	0	14	15	1.7	79.4*	101
Va.518	0	31	15	1.5	80.7*	103
Va.478	0	4	15	2.0	80.5*	103
Todd 620	0	22	15	1.8	66.4	85
Pioneer 329	3	8	15	1.5	82.3*	105
Indiana 642	0	34	16	1.2	78.8	101
Va.477	0	16	16	1.3	85.6*	109
Pioneer 301A	0	7	16	1.5	83.1*	106
S.St.Mohawk	1	20	16	1.5	75.6	96
S.St.Pocahontas	2	21	16	1.5	71.3	91
Va.126t	0	9	16	1.3	87.3*	111
PAG 403	0	29	16	1.8	76.6	98
US 13	0	12	16	2.2	76.7	98
Ohio C54	6	17	16	2.2	70.2	90
VPI 426	0	8	16	1.5	84.7*	108
Pioneer 305	0	18	16	1.5	80.3*	102
Indiana 631	2	22	16	1.7	71.6	91
Funk G91	0	19	16	1.7	79.0*	101
DeKalb 837	0	46	16	1.7	73.2	93
Va.475	0	12	16	1.3	82.0*	105
PAG 401	0	22	16	1.5	74.0	94
Pioneer 302A	0	12	16	1.8	86.0*	110
Pioneer 303	1	17	16	1.8	64.9	83
Va.417	4	30	16	1.5	71.3	91
Funk G134	12	26	16	1.3	91.0*	116
DeKalb 896	14	47	16	1.7	79.8*	102
Va.3032	1	12	16	1.3	84.1*	107
Va.424	3	14	16	1.2	79.4*	101
Va.523	11	7	17	1.5	71.9	92
PAG 444	0	13	17	1.5	89.1*	114
Wood V44	7	6	17	1.7	84.4*	108
Pioneer X1363	0	28	17	1.0	85.1*	109
Pioneer 510	9	11	17	1.3	84.5*	108
Va.414	1	17	17	1.5	79.5*	101
Va.646B	4	17	17	1.5	86.1*	110
Wood V125W	1	12	17	2.0	81.1*	103
US 505	20	9	17	1.5	85.0*	108
Va.412	0	25	17	2.0	76.8	98
Va.474	0	8	17	1.5	80.3*	102
VPI 646	4	10	17	1.7	73.5	94
DeKalb 876	10	12	17	1.5	77.0	98

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Chatham Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Pioneer 312A	1	10	17	1.3	87.5*	112
Va.415	2	24	17	1.7	76.3	97
Va.402	1	18	17	1.2	91.0*	116
Va.529	19	27	17	1.3	80.1*	102
Wood V26Y	3	19	17	1.7	78.6	100
Va.3039	8	11	17	1.7	89.1*	114
VPI 648	7	19	17	1.2	88.4*	113
Va.143	20	4	17	1.3	77.5	99
Va.530	8	11	18	1.2	88.5*	113
Funk G706	9	26	18	1.7	82.7*	105
VPI 645	2	16	18	1.5	76.2	97
Va.403	7	4	18	1.0	79.3*	101
Va.148A	16	21	18	1.7	85.9*	110
Pioneer 332-2A	11	18	18	1.3	93.3*	119
DeKalb 1051	29	17	18	1.3	68.4	87
Va.531	4	8	18	1.5	86.7*	111
Va.528	9	7	18	1.0	88.8*	113
Va.1232W	7	29	18	1.8	92.0*	117
PAG 633W	11	19	18	1.8	83.5*	107
PAG 485	2	32	18	2.0	83.8*	107
Va.401	6	19	19	1.3	86.9*	111
Va.1238W	4	33	19	2.0	83.7*	107
DeKalb 1024	12	63	19	1.3	90.3*	115
Va.126d	0	12	19	1.7	77.6	99
Wood V51A	18	30	19	1.5	84.6*	108
Funk G704	10	11	19	1.5	76.6	98
DeKalb 893	16	16	19	1.8	85.9*	110
Pioneer 309A	0	11	19	1.7	84.7*	108
US 523W	10	28	20	1.7	87.6*	112
VPI 730W	6	22	20	1.5	81.4*	104
US 262A	3	39	22	1.3	73.8	94
Va.534A	11	33	22	1.8	69.9	89
US 578	16	29	23	1.3	77.3	99
PAG 486	2	24	23	1.3	74.9	96
Va.534	7	32	25	1.8	72.2	92
DeKalb 1023	8	54	26	1.5	72.5	92
Average of test	5.2	20.1	17.3	1.6	80.2	

(1) Quality scored from 1 = very good to 5 = very poor.
* Starred hybrids not significantly different from top-yielding hybrid in test.

Cooperator: M. J. Rogers
Date planted: April 23
Fertilizer applied: 14-84-84 plus 2# chlordane before planting; 60# N side-dressed June 8.
Growing conditions: Hot and dry at tasseling.

Performance of Corn Hybrids, Chatham, 1956
(17,000 plants per acre)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Ohio W64	0	28	15	1.7	72.2	88
Funk G91	3	17	15	2.2	76.8	94
Va.518	1	33	15	1.5	77.8	95
Todd 620	1	40	15	1.3	75.6	92
Pa 711	0	22	15	1.7	87.6*	107
Indiana 642	0	36	16	1.7	83.3*	102
PAG 234	2	43	16	2.0	59.9	73
PAG 403	0	38	16	1.3	77.5	95
US 13	0	35	16	2.0	77.8	95
Ohio C54	0	22	16	1.7	78.4	96
DeKalb 876	4	11	16	1.7	70.8	87
Pioneer 329	7	25	16	1.5	89.7*	110
Pioneer 342A	2	31	16	1.2	79.3	97
Pioneer 305	0	17	16	1.5	76.9	94
Va.143	14	12	16	1.5	88.5*	108
VPI 646	8	17	16	1.7	88.6*	108
Pioneer 303	13	23	16	1.7	72.0	88
PAG 401	3	27	16	1.5	86.5*	106
Indiana 631	0	28	16	2.2	71.6	88
Va.417	5	31	16	1.3	66.9	82
Va.477	2	19	16	1.7	75.2	92
VPI 426	3	32	16	1.8	82.2*	101
Va.3032	3	37	16	1.8	84.1*	103
Va.424	1	22	16	1.2	93.1*	114
PAG 444	0	22	17	1.5	87.0*	106
Pioneer 338A	1	41	17	1.8	71.7	88
Pioneer 510	4	15	17	2.2	76.0	93
Va.529	10	28	17	1.0	86.4*	106
VPI 648	2	25	17	1.8	97.2*	119
Va.414	2	30	17	1.7	82.5*	101
Va.646B	3	29	17	1.5	98.5*	120
S.St.Mohawk	2	31	17	1.3	74.9	92
Wood V125W	16	36	17	1.8	82.9*	101
Va.3039	1	17	17	1.5	91.2*	112
S.St.Pocahontas	12	27	17	1.8	70.8	87
Va.528	13	20	17	1.3	91.5*	112
Funk G706	9	36	17	1.5	75.8	93
Va.475	0	32	17	1.3	87.5*	107
Pioneer 332-2A	4	23	17	1.3	92.9*	114
Funk G134	6	24	17	1.7	73.5	90
PAG 485	0	40	17	1.3	92.4*	113
Va.412	0	18	17	1.3	86.0*	105
VPI 645	7	22	17	1.5	89.0*	109
DeKalb 896	6	43	17	1.5	77.9	95
Pioneer X1363	2	23	17	1.7	80.5	98

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Chatham Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Pioneer 301A	0	20	17	1.7	75.2	92
Va.478	1	13	17	1.3	90.0*	110
Pioneer 312A	1	22	17	1.8	80.6	99
Va.148A	13	25	17	1.3	95.9*	117
Va.474	1	13	17	1.3	89.3*	109
US 505	6	21	18	1.8	92.1*	113
Pioneer 302A	0	24	18	1.7	77.8	95
DeKalb 837	5	38	18	2.2	72.6	89
US 523W	6	39	18	1.8	83.4*	102
Va.415	1	28	18	1.3	86.2*	105
Wood V26Y	7	15	18	2.0	87.7*	107
Wood V44	3	16	18	1.5	89.4*	109
Va.402	1	20	18	1.2	73.4	90
Va.126t	2	7	18	1.7	91.8*	112
DeKalb 1051	22	18	18	1.5	70.7	86
Va.531	4	16	19	1.2	88.0*	108
Funk G704	4	25	19	1.7	82.3*	109
US 262A	3	56	19	1.7	82.6*	101
Va.401	10	11	19	1.2	85.0*	104
Va.530	11	14	19	1.3	88.2*	108
Wood V51A	17	32	20	2.0	91.9*	112
VPI 730W	2	34	20	1.8	74.4	91
Va.1232W	17	38	20	1.8	88.8*	109
DeKalb 1024	11	60	20	1.5	86.9*	106
Va.1238W	13	26	20	1.8	86.6*	106
Va.126d	0	29	20	1.3	74.5	91
Pioneer 309A	0	12	20	1.7	82.6*	101
Va.523	15	12	20	1.5	71.3	87
Va.403	3	15	20	1.3	72.6	89
DeKalb 893	8	19	20	1.8	89.3*	109
PAG 633 W	14	27	20	1.7	78.5	96
Va.534A	4	44	20	1.8	78.5	96
US 578	2	60	22	2.2	75.2	92
DeKalb 1023	19	52	22	1.3	91.5*	112
Va.534	7	36	22	1.8	75.0	92
PAG 486	11	31	23	1.3	80.3	98
Average of test	5.1	27.1	17.6	1.6	82.0	

(1) Quality scored from 1 = very good to 5 = very poor.
* Starred hybrids are not significantly different in yield from top-yielding hybrid.
Cooperator: M. J. Rogers
Date planted: April 23
Fertilizer applied: 14-84-84 plus 2# Chlordane broadcast before planting; 60# N side-dressed June 8.
Growing conditions: Hot and dry at tasseling.

Performance of Corn Hybrids, Charlotte Courthouse, 1956
(13,500 plants per acre)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Todd 620	0	25	16	2.5	62.4	90
Pioneer 301A	0	20	16	2.2	64.9	93
PAG 234	1	20	16	2.8	72.4	104
Ohio W64	0	12	16	2.8	66.1	95
S.St.Mohawk	1	17	16	2.5	56.9	82
DeKalb 876	0	27	16	2.7	67.2	97
Pioneer 338A	3	19	16	2.2	66.5	96
Va.477	0	18	16	2.3	74.0	106
Va.518	0	15	17	2.8	63.8	92
S.St. Pocahontas	3	18	17	2.3	58.5	84
Indiana 642	0	12	17	2.7	66.6	96
VPI 426	0	12	17	3.0	64.8	93
Pioneer 303	4	23	17	2.7	66.3	95
Pioneer 329	0	22	17	2.3	74.8	107
DeKalb 896	3	31	17	2.2	74.1	106
Pioneer 312A	0	29	17	2.2	78.7*	113
Funk G134	0	20	17	2.5	68.1	98
Va.417	0	28	17	2.2	64.8	93
Va.412	0	25	17	2.3	69.8	100
Pa.475	1	12	17	2.2	75.8	109
DeKalb 837	2	16	17	3.0	56.1	81
Funk G704	2	18	17	2.3	73.9	106
Indiana 631	0	24	18	2.5	61.5	88
Pioneer 342A	0	20	18	3.0	62.8	90
PA 711	0	16	18	2.8	74.0	106
Ohio C54	0	8	18	2.5	65.0	93
US 505	1	11	18	2.0	78.0*	112
Va.143	4	5	18	1.8	76.1	109
Funk G91	1	19	18	2.3	72.6	104
PAG 401	2	25	18	2.2	68.6	99
Pioneer 305	0	16	18	2.3	64.0	92
Pioneer X1363	0	21	18	2.2	75.9	109
US 13	1	12	18	2.0	64.8	93
Va.478	0	14	18	2.2	68.9	99
Va.415	0	32	18	2.3	73.3	105
Va.3032	0	16	18	2.7	77.4*	111
VPI 648	0	12	18	2.2	79.9*	115
Va.3039	0	10	18	2.5	77.0	111
Wood V26Y	1	18	18	2.5	59.9	86
Va.528	2	16	18	2.2	77.4*	111
Wood V125W	7	36	18	2.0	74.6	107
Va.402	2	18	19	2.2	74.0	106
DeKalb 1051	3	22	19	2.0	58.6	84
PAG 403	0	15	19	2.3	64.0	92
Va.424	2	15	19	2.2	77.5*	111

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Charlotte Courthouse Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.646B	3	12	19	2.5	79.1*	114
Funk G706	1	12	19	2.7	73.5	106
Va.474	1	11	19	2.2	64.9	93
Pioneer 510	0	9	19	2.3	72.8	105
Va.414	0	18	19	2.7	66.3	95
VPI 646	0	12	19	2.8	71.0	102
PAG 485	3	31	19	1.8	84.5*	121
Va.529	4	16	19	2.3	73.5	106
Va.403	1	14	19	2.2	67.1	96
US 523W	1	29	19	2.2	75.6	109
Va.523	6	8	19	2.2	77.7*	112
Va.531	3	23	19	2.2	69.6	100
Va.1238W	1	27	19	2.3	77.8*	112
Pioneer 332-2A	0	19	19	1.5	92.8*	133
Va.530	1	21	19	2.3	68.9	99
Va.148A	2	17	19	2.0	76.7	110
US 262A	0	29	20	2.3	68.3	98
Wood V51A	2	37	20	1.8	73.5	106
Wood V44	0	13	20	2.5	73.7	106
Va.401	2	15	20	2.5	70.9	102
VPI 645	0	18	20	2.3	70.7	102
Pioneer 302A	1	13	20	2.3	64.3	92
Va.126t	0	7	20	2.5	67.9	98
DeKalb 1024	0	37	20	1.8	77.9*	112
PAG 444	0	13	20	1.8	75.7	109
DeKalb 893	2	40	20	2.2	79.2*	114
PAG 633W	1	30	21	2.3	76.1	109
Va.1232W	5	12	21	2.2	72.6	104
VPI 730W	0	18	21	2.5	69.6	100
Va.534A	2	32	22	2.5	73.7	106
US 578	1	32	22	2.3	77.6*	112
DeKalb 1023	1	42	22	2.2	62.2	89
Va.126d	0	6	22	2.8	56.7	81
Pioneer 309A	0	21	23	2.3	74.1	106
PAG 486	3	25	24	2.0	65.3	94
Va.534	2	24	24	2.8	64.8	93
Average of test	1.2	19.5	18.7	2.3	70.6	

(1) Quality scored from 1 = very good to 5 = very poor.
* Starred hybrids not significantly different in yield from top-yielding hybrid.

Cooperator: R. D. Sears No. of Reps.: 3
Date planted: April 30 and May 1. Date harvested: October 1 - 4.
Fertilizer applied: 50-100-100 broadcast plus 50 lbs. N side-dressed.

Performance of Corn Hybrids, Charlotte Courthouse, 1956
(16,500 plants per acre)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Todd 620	0	30	15	2.5	59.7	90
Pioneer 342A	0	27	16	2.5	69.9*	106
Ohio W64	0	19	16	2.8	61.7*	93
S.St.Pocahontas	1	23	16	2.2	66.1*	100
Indiana 642	0	31	16	2.5	58.7	89
PAG 234	0	15	16	2.8	65.7*	99
Va.478	0	12	16	2.3	71.3*	108
Pioneer 329	0	12	16	2.5	64.7*	98
Pioneer 301A	1	28	16	2.8	63.6*	96
PAG 401	1	32	16	2.5	65.7*	99
DeKalb	0	22	17	2.5	61.5	93
Va.401	2	18	17	2.0	70.3*	106
Funk G706	0	31	17	2.5	64.9*	98
Pioneer 305	0	14	17	2.8	64.7*	98
Indiana 631	0	17	17	2.7	60.2	91
Pa 711	0	18	17	2.8	71.0*	107
Pioneer 332-2A	0	27	17	2.7	71.7*	108
Pioneer 303	1	22	17	2.7	55.2	83
VPI 645	1	18	17	2.7	63.1*	95
Va.474	0	16	17	2.3	65.7*	99
Va.477	0	29	17	2.5	66.1*	100
Va.3032	0	18	17	2.8	64.2*	97
Va.143	0	11	17	2.0	71.3*	108
Funk G134	0	20	17	2.3	70.3*	106
US 13	0	26	17	2.7	63.1*	95
Va.412	1	30	17	2.5	63.5*	96
VPI 730W	0	29	18	2.7	58.5	88
Va.528	1	20	18	2.3	73.8*	111
DeKalb 896	0	48	18	2.3	67.2*	101
Va.646B	2	19	18	2.7	63.7*	96
VPI 426	0	18	18	2.7	59.9	90
Va.529	2	29	18	2.5	64.9*	98
S.St.Mohawk	0	26	18	2.3	60.2	91
Ohio C54	0	9	18	2.3	67.2*	101
Va.3039	0	18	18	2.2	73.6*	111
US 505	2	12	18	2.5	58.6	88
Pa 475	0	20	18	2.5	69.4*	105
DeKalb 837	0	20	18	2.8	54.2	82
Va.424	1	13	18	2.3	66.9*	101
Va.415	0	22	18	2.2	65.2*	98
Funk G704	0	15	18	2.5	66.8*	101
Va.414	0	22	18	2.5	61.3	93
VPI 648	1	24	18	2.3	76.5*	115
Pioneer 510	0	17	18	2.3	65.0*	98
PAG 444	0	20	18	2.3	75.8*	114

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Charlotte Courthouse Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Funk G91	0	25	18	2.7	63.3*	96
Va.518	0	22	18	2.7	59.9	90
Va.417	0	17	18	2.0	54.0	82
Va.523	0	15	18	2.2	59.2	89
PAG 485	0	33	18	2.2	74.4*	112
Pioneer X1363	0	20	18	1.8	77.1*	116
VPI 646	7	22	18	2.8	70.5*	106
Pioneer 338A	0	22	18	3.0	55.1	83
Va.126t	0	9	18	2.5	74.2*	112
DeKalb 1051	0	29	18	2.2	68.4*	103
Wood V44	0	18	18	2.2	66.9*	101
Va.1238W	1	25	19	2.5	72.4*	109
PAG 403	0	24	19	2.7	62.4*	94
DeKalb 1024	0	67	19	2.2	70.2*	106
US 523W	2	36	19	2.3	70.7*	107
PAG 633W	1	41	19	2.3	77.6*	117
Wood V26Y	0	23	19	2.5	64.8*	98
Va.402	0	24	19	2.2	67.9*	103
Pioneer 312A	1	34	19	2.3	70.4*	106
Va.403	1	30	20	2.0	62.6*	95
Va.1232W	0	26	20	2.5	61.9*	93
Va.530	0	18	20	2.5	68.7*	104
Wood V51A	1	53	20	2.2	65.7*	99
DeKalb 1023	2	57	20	2.3	69.9*	106
Va.531	2	18	20	2.5	69.4*	105
Wood V125W	2	37	20	2.2	69.2*	104
Pioneer 302A	0	19	20	2.7	65.7*	99
Va.148A	1	36	21	2.3	65.4*	99
US 578	1	36	21	2.5	62.6*	95
US 262A	0	34	22	2.2	73.6*	111
Va.126d	0	14	22	2.3	46.3	70
Va.534	1	27	22	2.5	60.5	91
DeKalb 893	0	39	22	2.0	71.7*	108
Pioneer 309A	0	25	22	2.2	66.4*	100
PAG 486	1	37	23	2.3	57.5	87
Va.534A	0	40	24	2.2	62.1*	94
Average of test	0.5	24.9	18.3	2.4		

(1) Quality scored from 1 = very good to 5 = very poor.
* Starred hybrids not significantly different in yield from top-yielding hybrid.

Cooperator: R.D. Sears No. of reps: 3
Date Planted: April 30 and May 1. Date harvested: October 1 - 4.
Fertilizer applied: 50-100-100 broadcast plus 50 lbs. N side-dressed.

Performance of Corn Hybrids in Southern Piedmont, 1956
(Chatham and Charlotte Courthouse)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Ohio W64	0	19	16	2.2	68.8	93
Todd 620	0	29	16	2.1	66.1	89
PAG 234	1	28	16	2.4	65.9	89
Indiana 642	0	28	16	2.1	71.9	97
Pioneer 342A	1	26	16	2.1	70.9	96
Pioneer 329	2	17	16	2.0	77.9	105
S.St.Pocahontas	5	22	16	2.0	66.7	90
Pa.711	0	18	16	2.3	78.0	105
Va.518	0	25	16	2.2	70.6	95
Pioneer 301A	0	19	16	2.1	71.8	97
Va.477	1	21	16	2.0	75.3	102
DeKalb 876	3	18	16	2.1	69.2	94
S.St.Mohawk	1	24	17	1.9	67.0	91
Pioneer 338A	1	29	17	2.2	66.9	90
Pioneer 303	5	21	17	2.3	64.7	87
Va.478	0	11	17	2.0	77.7	105
Ohio C54	2	14	17	2.2	70.2	95
VPI 426	1	18	17	2.3	73.0	99
Pioneer 305	0	16	17	2.1	71.5	97
Indiana 631	1	22	17	2.3	66.3	90
Funk G91	1	20	17	2.3	73.0	99
PAG 401	1	26	17	2.0	74.8	101
U.S.13	0	21	17	2.3	70.7	96
Va.417	2	27	17	1.8	64.3	87
Va.475	0	19	17	1.9	78.7	106
Funk G134	4	22	17	2.0	75.6	102
DeKalb 896	6	42	17	2.0	748	101
Va.412	0	24	17	2.1	74.1	100
Va.3032	1	21	17	2.2	77.5	105
Va.143	10	8	17	1.7	78.4	106
PAG 403	0	26	17	2.1	70.2	95
DeKalb 837	2	30	17	2.5	63.6	86
Va.424	2	16	17	1.8	79.3	107
Va.646B	3	19	17	2.1	81.9	111
US 505	7	13	17	2.0	78.5	106
Pioneer X1363	0	23	18	1.7	79.7	108
Pioneer 510	3	13	18	2.1	74.6	101
Va.414	1	22	18	2.1	72.4	98
VPI 646	5	15	18	2.3	76.0	103
VPI 648	2	20	18	1.9	85.5	116
Va.474	0	12	18	1.9	75.1	101
Va.529	9	25	18	1.8	76.3	103
Va.3039	2	14	18	2.0	82.8	112
Funk G706	5	26	18	2.1	74.3	100
Va.415	1	26	18	1.9	75.3	102

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Southern Piedmont Region (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Pioneer 312A	1	24	18	2.0	79.4	107
Pioneer 332-2A	4	22	18	1.7	87.7	119
Va.528	6	16	18	1.8	82.9	112
PAG 444	0	17	18	1.8	82.0	111
Wood V125W	7	30	18	2.0	76.9	104
VPI 645	3	18	18	2.0	74.8	101
PAG 485	1	34	18	1.9	83.8	113
Wood V44	3	13	18	2.0	78.6	106
Va.402	1	20	18	1.7	76.6	104
Wood V26Y	3	19	18	2.2	72.8	98
Funk G704	4	17	18	2.0	75.0	101
DeKalb 1051	14	21	18	1.8	66.6	90
Va.126t	0	8	18	2.0	80.4	109
Pioneer 302A	0	17	18	2.2	73.5	99
Va.523	8	11	18	1.9	70.1	95
Va.401	5	16	19	1.8	78.3	106
Va.148a	8	26	19	1.9	81.0	109
US 523W	5	33	19	2.1	79.4	107
Va.531	3	16	19	1.9	78.4	106
Va.530	5	16	19	1.9	78.6	106
Va.403	3	16	19	1.7	70.5	95
Va.1238W	5	28	19	2.2	80.2	108
VPI 730W	2	26	20	2.1	71.0	96
Va.1232W	7	26	20	2.1	78.9	107
DeKalb 1024	6	57	20	1.7	81.4	110
Wood V51A	10	38	20	1.9	79.0	107
PAG 633W	7	29	20	2.1	79.0	107
US 262A	2	39	20	1.9	74.6	101
DeKalb 893	6	28	21	2.0	71.6	97
Va.126d	0	16	21	2.1	63.8	86
Pioneer 309A	0	18	21	2.0	77.0	104
Va.534a	4	37	22	2.1	71.1	96
US 578	5	39	22	2.1	73.2	99
DeKalb 1023	8	51	23	1.9	74.1	100
PAG 486	4	29	23	1.8	69.5	94
Va.534	4	30	23	2.3	68.2	92
Average for test	3.0	22.9	18.0	2.0	74.5	

Performance of Corn Hybrids, Orange, 1956
(14,200 plants per acre)

Hybrid	Days to Mid-Silk	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Funk G77A	82	4	15	19	2.2	87.1	87
Ohio W64	73	2	2	20	1.8	70.8	71
Pioneer 342A	80	0	8	21	1.7	86.3	86
W.Va.B25	78	0	10	21	1.7	94.2	94
Pa.602A	79	0	11	21	2.3	75.8	76
Va.520	82	0	9	21	2.5	93.9	94
Pa.602	78	0	3	21	3.0	75.9	76
Ohio C54	78	0	6	21	2.0	87.7	87
PAG 401	85	0	23	21	2.2	97.8	98
Pa.711	77	7	0	22	2.7	83.5	83
PAG 234	76	1	7	22	2.3	90.6	90
Va.477	81	0	7	22	1.7	101.0	101
PAG 347	82	0	12	22	2.0	84.5	84
Va.518	79	0	8	22	2.0	103.0	103
Funk G76	81	3	0	22	1.5	101.2	101
S.St.Pocahontas	84	15	8	22	1.3	80.3	80
Indiana 631	81	13	6	23	2.8	88.0	88
Va.519	83	0	14	23	2.5	105.2	105
DeKalb 806	83	8	10	23	2.3	88.1	88
Pioneer 338A	80	0	12	23	1.7	91.7	91
Funk G134	83	3	14	23	1.7	115.9*	116
S.St.Mohawk	83	5	8	23	1.5	85.5	85
Indiana 642	82	7	12	23	1.8	105.8	106
Va.461	82	5	13	23	1.3	106.6	106
Pioneer 301A	83	3	6	23	2.0	104.6	104
Pioneer 329	82	0	1	23	1.7	98.5	98
Va.512	79	0	2	23	1.8	91.0	91
PAG 403	82	1	15	23	1.3	105.7	105
DeKalb 807	83	8	21	23	1.5	94.8	95
DeKalb 623	83	3	2	23	2.2	91.5	91
Va.126C	79	0	6	23	2.0	103.8	104
Va.3039	82	2	7	23	1.3	109.1*	109
Pa.807	82	6	1	23	2.3	82.9	83
Va.3032	82	1	4	23	1.5	113.7*	113
Va.412	83	6	15	23	1.8	107.5	107
Va.529	81	17	4	23	3.5	118.3*	118
Va.528	81	11	4	23	1.3	109.8*	109
Va.402	83	0	10	23	1.2	105.3	105
Va.481	82	3	4	23	3.0	87.4	87
Va.512	80	0	10	24	2.2	84.7	84
VPI 426	79	0	5	24	1.5	88.5	88
Wood V26Y	80	0	6	24	1.7	95.6	95
VPI 648	82	2	1	24	1.3	112.4*	112

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Orange Test (Contd.)

Hybrid	Days to Mid-Silk	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
DeKalb 811	83	0	12	24	2.3	104.0	104
Pa.820	81	4	2	24	1.8	97.5	97
Va.340	79	24	3	24	2.3	95.8	96
DeKalb 665	80	0	42	24	2.0	101.3	101
Va.475	81	0	5	24	1.2	107.9	108
Funk G91	83	4	6	24	2.2	102.5	102
DeKalb 630	81	2	10	24	1.8	97.0	97
Va.415	82	1	2	24	2.2	112.1*	112
Va.646 B	83	7	2	24	1.5	120.9*	121
US 13	82	0	13	24	2.3	95.5	95
Va.403	83	16	13	24	1.5	94.6	94
Va.417	84	4	14	24	1.5	88.1	88
VPI 645	83	3	4	24	1.0	116.1*	116
Va.523	82	7	1	24	1.5	104.3	104
Pioneer 312A	86	0	19	24	1.3	114.8*	114
Va.143	83	0	1	24	1.3	106.1	106
Va.474	82	2	6	25	2.0	99.1	99
US 523W	87	5	19	25	1.3	113.4*	113
US 505	85	12	7	25	1.3	108.2	108
Wood V125W	86	9	22	25	1.5	127.0*	127
Pioneer 510	88	1	12	25	2.0	104.8	105
VPI 646	85	13	13	25	1.8	108.1	108
Ind.750	86	4	12	25	1.5	85.1	85
Va.148A	85	7	11	25	1.2	129.0*	129
Pioneer 303	82	27	11	25	1.5	89.9	90
Wood V44	83	4	6	26	1.2	107.5	107
PAG 444	83	4	4	26	2.3	95.1	95
Va.1232W	87	9	17	26	1.2	115.9*	116
Va.414	84	5	5	26	2.2	107.5	107
Va.533	84	0	2	26	1.8	98.5	98
US 262A	88	5	32	27	1.7	124.0*	124
Wood V51A	86	28	26	27	1.3	119.3*	119
PAG 454	87	10	30	27	1.5	112.5*	112
Funk G704	84	7	14	27	1.3	105.9	106
Va.401	84	7	6	28	1.3	110.7*	110
VPI 730W	84	16	12	28	1.2	110.7*	110
Va.488	84	3	7	28	1.2	107.3	107
Average of test	82	4.8	9.5	23.7	1.8	100.5	

(1) Quality scored 1 = very good to 5 = very poor.
* Starred hybrids not significantly different from top-yielding hybrid.
Cooperator: G. D. Jones
Date planted: April 27 Date harvested: October 1, 2, and 3.
Fertilizer applied: 100-100-100. Reps: 3
Growing conditions: Dry, cool May and June; favorable July and August.

Performance of Corn Hybrids, Orange, 1956
(18,500 plants per acre)

Hybrid	Days to Mid-Silk	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Pioneer 342A	81	0	18	21	2.3	81.9	78
Pa.602A	80	2	12	21	1.8	82.0	78
Pioneer 301A	81	11	28	22	2.2	110.6	105
Pa.602	82	3	9	22	3.0	77.6	73
PAG 401	84	10	28	22	1.7	98.7	93
DeKalb 623	85	4	21	22	2.5	101.1	96
W.Va.B25	83	0	17	22	2.2	79.7	75
PAG 347	84	5	30	22	3.3	103.4	98
VPI 426	82	4	12	22	2.0	93.5	88
Funk G77A	82	8	12	22	2.0	99.8	94
PAG 403	85	1	15	22	2.0	94.4	89
Va.502	82	3	8	23	2.2	91.4	87
Funk G76	84	2	19	23	1.8	101.3	96
Va.417	83	0	14	23	2.0	68.9	65
DeKalb 665	84	0	22	23	2.0	96.3	91
DeKalb 807	83	2	30	23	2.7	90.8	86
S.St.Mohawk	84	6	17	23	2.7	85.0	80
PAG 234	78	11	8	23	2.3	87.0	82
Pa.711	80	0	6	23	2.8	96.9	92
Ohio W64	78	0	0	23	2.3	80.7	76
Va.519	85	8	14	23	1.8	120.8*	114
DeKalb 806	83	6	16	23	3.0	102.9	97
Va.126c	80	0	13	23	1.5	106.4	101
Va.474	85	4	9	23	2.0	98.8	94
Pa.807	84	0	11	23	2.2	93.6	89
Va.533	85	0	20	23	1.3	119.5*	113
Pioneer 329	82	4	5	23	3.0	103.4	98
Va.520	84	0	2	24	3.2	90.3	85
Va.340	82	3	10	24	2.2	106.3	101
S.St.Pocahontas	86	24	23	24	1.3	79.6	75
Va.475	80	4	4	24	2.0	110.4	104
Indiana 631	84	4	27	24	2.7	94.6	90
Ohio C54	80	3	4	24	2.0	87.3	83
VPI 645	84	0	13	24	1.8	112.2	106
Va.512	82	0	16	24	2.0	104.1	99
Wood V26Y	83	2	16	24	1.8	106.9	101
DeKalb 630	84	0	13	24	1.0	109.6	104
Funk G91	85	1	12	24	2.5	103.7	98
Va.3032	84	1	4	24	2.0	116.9*	111
Pa.820	83	0	25	24	1.3	93.6	89
Pioneer 338A	83	23	10	24	2.3	106.1	100
Va.523	85	7	29	24	1.7	114.0	108
Va.529	84	13	18	24	1.7	113.2	107
Indiana 642	84	4	14	24	1.8	100.9	95

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Orange Test (Contd.)

Hybrid	Days to Mid-Silk	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.512	80	11	20	24	2.0	95.6	90
US 505	84	12	10	25	1.2	124.3*	118
Funk G134	84	6	18	25	2.2	116.4*	110
US 13	84	4	14	25	2.5	90.9	86
Indiana 750	85	18	22	25	2.0	91.5	87
Pioneer 303	81	35	13	25	2.0	104.7	99
Va.646B	85	9	25	25	1.7	123.7*	117
Pioneer 510	89	11	34	25	1.5	117.5*	111
PAG 454	88	9	25	25	2.2	112.9	107
Va.481	82	0	4	25	2.5	99.9	95
Pioneer 312A	88	0	22	25	1.5	114.3*	108
DeKalb 811	85	0	15	25	1.8	100.0	95
Wood V44	84	0	10	25	1.2	124.7*	118
Wood V51A	87	16	16	25	1.5	129.6*	123
Va.3039	82	0	12	25	1.7	130.5*	124
VPI 646	86	0	13	25	1.7	115.4*	109
Va.518	82	0	12	25	2.0	115.0*	109
Va.414	83	2	10	25	1.8	109.7	104
Va.402	83	7	15	25	2.0	97.3	92
US 523W	87	2	25	25	1.3	118.3*	112
Va.403	85	2	24	26	2.2	90.7	86
Va.412	84	0	15	26	2.0	106.8	101
VPI 730W	86	15	48	26	1.5	114.0	108
Va.148A	85	0	19	26	1.3	124.8*	118
US 262A	89	4	61	26	1.7	107.3	102
Va.415	83	15	19	26	1.3	101.9	96
Va.401	85	3	25	26	1.3	116.8*	111
Va.477	84	0	17	26	1.8	112.0	106
PAG 444	83	2	5	27	1.5	117.7*	111
Va.461	83	4	21	27	1.3	105.2	100
Funk G704	86	15	21	27	1.3	140.0*	132
Va.1232W	86	13	24	27	1.3	115.6*	109
VPI 648	84	19	14	27	1.2	114.9*	109
Va.528	85	8	19	28	1.2	117.0*	111
Wood V125W	88	23	13	28	1.7	122.0*	115
Va.488	84	3	10	29	1.3	104.9	99
Va.143	83	9	17	29	1.3	109.7	104
Average of test	84	5.6	16.8	24.3	1.9	104.6	

(1) Quality scored 1 = very good to 5 = very poor.
* Starred hybrids not significantly different in yield from top-yielding hybrid.

Cooperator: G. D. Jones
Date planted: April 27 Date harvested: October 1, 2, and 3.
Fertilizer applied: 100-100-100. Reps: 3
Growing conditions: Dry, cool May and June; favorable July and August.

Performance of Corn Hybrids, Middleburg, 1956

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.502	9	3	25	1.8	123.1	98
Pioneer 342A	10	4	26	2.2	115.3	92
PA G 234	19	9	26	2.0	106.7	85
Funk G77A	9	5	26	1.2	128.0	102
Pa 602A	14	5	26	1.8	93.6	74
Pa 602	9	4	27	1.7	111.9	89
PAG 401	19	2	27	1.8	141.1*	112
Ohio W64	6	8	27	1.5	105.3	84
W.Va.B25	13	5	27	1.5	114.0	91
PAG 347	12	2	27	1.5	126.4	101
Va.520	8	1	27	1.4	117.1	93
Pa 711	9	6	27	2.0	109.6	87
DeKalb 623	11	3	28	1.8	125.0	99
Funk G76	13	0	28	1.2	131.0	104
Pioneer 301A	3	1	28	1.3	135.3*	108
Ohio C54	7	5	28	1.5	109.2	87
DeKalb 665	3	4	28	1.0	135.9*	108
PAG 403	4	5	28	1.2	124.2	99
S.St.Mohawk	5	2	28	2.0	131.0	104
S.St.Pocahontas	6	3	28	1.2	101.9	81
VPI 426	7	0	28	1.2	122.3	97
DeKalb 806	2	5	28	1.7	130.1	103
Indiana 631	6	14	28	1.5	101.9	81
Pa 807	1	5	29	1.5	118.3	94
DeKalb 807	9	6	29	1.0	128.3	102
Pioneer 338A	16	7	29	1.3	128.9	103
Va.512	6	9	29	1.0	126.4	101
Va.417	9	3	29	1.0	121.0	96
Indiana 642	34	14	29	1.0	130.7	104
Va.475	4	7	29	1.0	132.3*	105
Va.518	3	5	29	1.0	127.3	101
Va.519	4	5	29	1.2	125.0	99
Va.340	15	3	29	1.8	124.4	99
Va.3032	9	8	29	1.7	125.3	100
Va.529	6	4	29	1.2	143.0*	114
Funk G134	8	2	29	1.3	130.4	104
Pioneer 329	2	0	29	1.8	121.2	96
Pa 820	6	1	29	1.5	115.5	92
Funk G91	11	1	30	1.2	132.6*	105
Va.474	6	0	30	1.8	122.6	98
Va.512	13	7	30	1.0	132.1*	105
DeKalb 630	12	3	30	1.3	132.1*	105
Va.126c	6	2	30	1.3	139.5*	111
VPI 645	12	4	30	1.2	136.9*	109
Va.533	6	3	30	1.5	134.3*	107

Continued on next page

Middleburg Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.481	3	3	30	1.2	130.1	103
Va.3039	3	5	30	1.2	130.0	103
Wood V26Y	9	2	30	1.2	110.6	88
Va.523	10	2	30	1.5	127.4	101
Va.477	8	4	30	1.0	130.1	103
Va.402	5	6	30	1.7	123.3	98
Va.412	2	5	30	1.2	130.0	103
Va.646B	8	2	30	1.3	142.7*	114
Wood V44	5	4	30	1.0	134.4*	107
US 505	10	9	30	1.0	128.7	102
Pioneer 312A	4	2	30	1.2	119.1	95
DeKalb 811	6	3	30	1.7	130.1	103
Indiana 750	12	4	31	2.0	113.1	90
Va.403	9	5	31	1.3	116.4	93
Va.528	6	2	31	1.2	141.4	112
Va.461	8	9	31	1.2	119.9	95
US 523W	18	9	31	1.2	133.6*	106
US 13	3	5	31	1.8	123.1	98
Pioneer 303	7	5	31	1.8	116.5	93
VPI 648	4	2	31	1.3	128.5	102
Pioneer 510	4	2	31	1.2	133.2*	106
Va.148A	4	1	31	1.0	141.8*	113
VPI 646	5	4	32	1.2	133.0*	106
Va.414	5	3	32	1.0	130.0	103
PAG 454	7	8	32	1.2	126.2	100
Va.415	8	3	32	1.2	133.2*	106
Wood V51A	10	8	32	1.5	145.7*	116
Va.1232W	12	6	32	1.2	154.5*	123
US 262A	7	4	32	1.5	140.3*	112
PAG 444	5	1	32	1.5	115.6	92
Wood V125W	4	4	32	1.0	138.4*	110
Funk G704	7	1	33	1.2	135.5*	108
Va.143	2	4	33	1.0	125.3	100
VPI 730W	12	6	33	1.0	126.9	101
Va.401	2	4	34	1.2	132.8*	106
Va.488	5	4	35	1.2	125.7	100
Average of test	7.9	4.3	29.6	1.37	126.4	

(1) Quality scored from 1 = very good to 5 = very poor.
Cooperator: H. W. Bryant
Reps: 3 Plants per acre: 14,000
Growing season: Very favorable.

Performance of Corn Hybrids in Northern Piedmont Tests - 1956
(Orange and Middleburg)

Hybrid	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Funk G77A	8	9	23	1.7	110.8	97
Pioneer 342A	5	8	23	2.1	99.7	87
Pa 602A	7	8	24	2.0	86.3	75
Va.502	5	4	24	2.1	109.4	96
Pa 602	5	5	24	2.4	94.4	83
PAG 234	12	8	24	2.2	97.8	85
Ohio W64	4	5	24	1.8	90.6	79
W.Va.B25	6	9	24	1.8	100.5	88
PAG 401	12	14	24	1.9	119.7	105
PAG 347	7	12	25	2.1	110.2	96
Va.520	4	3	25	2.3	104.6	91
Pa 711	6	5	25	2.4	99.9	87
Funk G76	8	5	25	1.5	116.2	102
Pioneer 301a	5	9	25	1.7	121.5	106
Ohio C54	4	5	25	1.8	98.4	86
DeKalb 623	7	7	25	2.1	110.7	97
S.St.Mohawk	5	7	25	2.1	108.2	95
PAG 403	2	10	25	1.5	112.2	98
DeKalb 665	1	18	26	1.5	117.4	103
S.St.Pocahontas	13	9	26	1.3	91.0	80
DeKalb 806	5	9	26	2.2	112.8	99
VPI 426	4	4	26	1.5	106.7	93
Indiana 631	7	15	26	2.2	96.6	84
DeKalb 807	7	16	26	1.6	110.6	97
Pa 807	2	5	26	1.9	103.3	90
Va.519	4	10	26	1.7	119.0	104
Pioneer 338A	14	9	26	1.7	113.9	100
Va.417	6	8	26	1.4	99.8	87
Va.518	2	7	26	1.5	118.2	103
Indiana 642	20	14	26	1.4	117.1	102
Pioneer 329	2	2	26	2.1	111.1	97
Va.475	3	6	26	1.3	120.8	106
Va.126C	3	6	26	1.6	122.3	107
Va.3032	5	6	26	1.8	120.3	105
Va.512	6	10	26	1.6	111.6	98
Va.340	14	5	26	2.1	112.8	99
Funk G134	7	9	27	1.7	123.3	108
Va.529	11	8	27	1.9	129.4	113
Pa 820	4	7	27	1.6	105.6	92
Funk G91	7	5	27	1.8	117.9	103
DeKalb 630	7	7	27	1.4	117.7	103
Va.474	4	4	27	1.9	110.8	97
Wood V26Y	5	6	27	1.5	106.0	93
VPI 645	7	6	27	1.3	125.6	110
Va.3039	2	7	27	1.4	124.9	109

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Northern Piedmont Tests (Contd.)

Hybrid	Plants Lodged %	Plants Broken %	Moisture at harvest %	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.481	2	4	27	2.0	111.9	98
Va.477	4	8	27	1.4	118.3	103
Va.402	4	10	27	1.7	112.3	98
Va.523	8	9	27	1.6	118.3	103
Va.412	2	10	27	1.6	118.6	104
Va.646B	8	8	27	1.5	132.5	116
Va.533	3	7	27	1.6	121.7	106
DeKalb 811	3	8	28	1.9	116.1	101
US 505	11	9	28	1.2	122.5	107
Pioneer 312A	2	11	28	1.3	116.9	102
US 13	3	9	28	2.1	108.2	95
Indiana 750	12	10	28	1.9	100.7	88
Va.403	9	12	28	1.6	104.6	91
Wood V44	4	6	28	1.1	125.3	110
Va.461	6	13	28	1.3	112.9	99
US 523W	11	16	28	1.3	124.8	109
Pioneer 510	5	13	28	1.5	122.2	107
Va.528	8	7	28	1.3	127.4	111
Pioneer 303	19	8	28	1.8	106.9	93
VPI 646	6	8	28	1.5	122.4	107
VPI 648	7	5	28	1.3	121.1	106
Va.415	8	7	28	1.5	120.1	105
Va.148A	4	8	28	1.2	134.4	117
Va.414	4	5	29	1.5	119.3	104
PAG 454	8	18	29	1.6	119.5	104
Wood V51A	16	14	29	1.5	135.1	118
US 262A	6	25	29	1.6	128.0	112
Va.1232W	12	14	29	1.3	135.2	118
Wood V125W	10	11	30	1.3	131.5	115
PAG 444	4	2	30	1.7	111.0	97
Va.143	3	6	30	1.2	116.6	102
VPI 730W	14	18	30	1.2	119.7	105
Funk G704	9	9	30	1.3	129.3	113
Va.401	3	10	30	1.3	123.3	108
Va.488	4	6	32	1.3	115.9	101

(1) Quality scored from 1 = very good to 5 = very poor.

Performance of Corn Hybrids, Staunton, 1956

Hybrid	Days to Mid Silk	Plants Broken (%)(1)	Moisture at harvest (%)	Quality Score (2)	Average Yield Bu/A.	Average Yield % of Check
Pioneer 371	71	1	17	3.1	65.8	107
Pioneer 349	71	2	18	3.1	58.5	95
Pa 444	70	2	19	2.9	43.8	71
Va.508	72	2	19	2.4	62.7	102
Pioneer 342A	71	4	19	2.1	63.5	103
Mich 570	70	4	19	2.1	60.2	98
Pa 602A	71	2	19	2.8	58.4	95
PAG 234	71	2	19	2.4	61.0	99
Va.503	71	1	19	2.3	67.6	110
Va.505	72	1	20	2.9	64.0	104
W.Va.B25	72	5	20	2.4	66.7	108
Va.429	70	4	20	2.5	64.6	105
Iowa 4376	72	0	20	2.6	59.6	97
Todd 631	73	1	20	2.9	61.8	100
Funk G77A	73	5	20	2.4	71.8	116
Todd 620	72	6	20	1.9	59.9	97
Pioneer 329	75	1	20	2.3	73.3*	119
Ohio W64	72	0	20	2.4	61.1	99
Funk G50	73	3	21	1.6	69.8	113
PAG 401	76	5	21	2.1	71.9	117
Va.2014	73	1	21	2.0	69.2	112
Pioneer X1363	78	3	21	1.9	76.9*	125
Pioneer 301A	77	3	21	2.1	66.2	107
Todd 602	73	3	21	2.0	62.2	101
Va.501	72	2	21	2.9	60.8	99
S.St.Mohawk	76	4	21	2.0	71.7	116
Broadbent 402	74	2	21	2.5	74.7*	121
DeKalb 811	76	1	21	2.6	68.8	112
Va.339	75	3	21	1.4	72.0	117
Va.518	74	0	21	1.9	80.1*	130
Va.097	72	5	21	2.3	70.2	114
PAG 347	74	1	21	2.6	67.6	110
S.St.Pocahontas	75	2	22	1.9	66.2	107
Va.506	72	2	22	2.4	64.3	104
Va.502	72	1	22	2.1	77.4*	126
Funk G75A	70	2	22	2.1	70.0	114
DeKalb 665	73	1	22	2.3	65.6	106
Todd 642	74	3	22	2.3	66.5	108
Va.512	72	2	22	2.0	70.5	114
Va.510	71	1	22	2.5	71.6	116
Pa 820	73	2	22	2.3	73.5*	119
PAG 403	75	1	22	1.9	73.9*	120
Va.445	77	1	22	2.1	54.7	89
Todd 870	76	4	22	2.5	66.9	109
DeKalb 852	76	3	22	2.0	82.2*	133

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Staunton Test (Contd.)

Hybrid	Days to Mid Silk	Plants Broken (%)(1)	Moisture at harvest (%)	Quality Score (2)	Average Yield Bu/A.	Average Yield % of Check
Ky.106	77	5	23	2.8	72.4	117
VPI 645	74	2	23	1.5	73.3*	119
Indiana 844	74	2	23	3.0	68.7	111
Funk G76	72	0	23	1.9	73.8*	120
Ohio C54	72	1	23	2.0	64.8	105
US 13	74	2	23	1.6	75.5*	122
DeKalb 801	75	2	23	2.0	73.1*	119
US 505	77	4	23	1.4	73.4*	119
Funk G134	75	5	23	1.5	80.3*	130
Pioneer 338A	75	3	23	2.3	78.5*	127
Va.332	74	2	23	2.1	78.1*	127
Va.424	75	2	23	1.6	68.6	111
VPI 648	75	3	23	1.5	75.9*	123
VPI 646	75	1	23	1.5	80.6*	131
Park 400	73	2	23	2.3	73.6*	119
VPI 426	72	1	24	1.9	69.0	112
Iowa 4059	73	5	24	2.3	56.8	92
Va.126t	73	2	24	1.3	83.4*	135
DeKalb 837	76	2	24	2.1	69.1	112
VPI 730W	78	2	24	1.8	66.9	109
Wood V26Y	74	4	24	1.3	70.5	114
Funk G91	75	2	24	2.0	74.5*	121
Broadbent 235AW	79	2	24	1.8	61.2	99
Va.514	76	1	24	1.8	79.1*	128
Wood V30	73	2	24	2.0	73.1*	119
DeKalb 803	76	3	24	2.3	55.5	90
PAG 444	75	1	25	1.6	76.3*	124
Va.414	76	1	25	1.5	73.7*	120
Va.126c	73	1	25	2.3	72.1	117
Va.1232W	79	8	26	1.5	74.9*	121
Va.415	76	2	26	1.6	73.8*	120
Va.412	76	4	26	1.5	73.5*	119
US 523W	80	4	26	1.8	69.6	113
Va.417	77	4	27	2.1	67.6	110
Va.403	75	3	27	1.8	69.7	113
Va.126d	77	1	28	1.5	77.2*	125
Average for tests		2.36	22.17	2.11	69.23	

* Starred hybrids not significantly different from top yielding hybrid.
(1) No lodging.
(2) Quality scored from 1 = very good to 5 = very poor.
Cooperator: P. T. Gish
Date planted: May 14 Date harvested: October 19
Fertilizer applied: 80-80-80 Reps: 6
Plot size: 1 x 10 hills, 36" x 36". Plants per acre: 13,600
Growing conditions: Dry through July 20

Performance of corn hybrids at Emory, 1956
(11,800 plants per acre)

Hybrids	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.505	0	10	22	2.5	87.6	100
Va.506	2	10	22	1.5	80.7	92
Pioneer 371	0	17	22	3.5	83.6	95
Pioneer 342A	4	8	23	3.0	78.4	89
Pa.444	2	28	23	3.0	55.2	63
Funk G50	1	5	23	1.0	90.7*	103
Mich 570	0	6	23	1.0	78.2	89
Pioneer 349	6	4	24	2.5	74.0	84
Va.501	1	17	24	3.5	70.2	80
Wood V26Y	1	7	24	2.0	87.6	100
Va.503	2	10	24	2.5	76.2	87
Pioneer 329	0	12	24	1.5	84.1	96
Pa.602A	1	15	25	2.5	67.9	77
PAG 347	0	16	25	2.0	86.1	98
W.Va.B25	0	21	25	2.5	76.7	88
DeKalb 811	2	10	25	1.5	88.3	101
Va.502	4	5	25	1.0	92.0*	105
Iowa 4376	0	13	25	2.5	73.4	84
PAG 401	1	17	25	2.5	87.0	99
DeKalb 665	0	9	25	1.0	88.5	101
Indiana 844	0	12	25	3.0	88.1	101
Va.2014	1	10	25	3.0	84.7	97
Va.508	4	16	25	2.5	84.5	96
Todd 620	0	7	25	1.0	80.8	92
Funk G77A	0	11	25	2.0	75.2	86
PAG 234	0	14	26	1.5	77.2	88
Va.512	0	9	26	2.5	77.9	89
Va.126C	0	9	26	2.0	103.5*	118
Pioneer X1363	0	13	26	1.0	93.8*	107
Park 400	0	10	26	2.5	84.8	97
Ohio C54	1	1	26	2.0	69.9	80
Todd 631	2	11	26	1.5	75.2	86
Va.097	1	15	26	2.0	83.3	95
VPI 648	1	6	26	1.5	89.5*	102
Pioneer 301A	0	18	26	2.0	82.4	94
Va.429	1	10	26	1.5	82.1	94
Ohio W64	1	1	26	2.5	88.1	101
Wood V30	0	4	26	1.5	100.1*	114
Funk G76	0	12	26	3.0	88.3	101
Funk G91	0	11	27	2.5	96.3*	110
Va.445	0	7	27	3.0	72.5	83
S.S.Mohawk	1	12	27	2.0	80.3	92
S.St.Pocahontas	4	0	27	1.5	75.7	86
Todd 642	0	9	27	1.5	87.3	100
VPI 426	0	4	27	0.5	85.9	98

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Emory Test (Contd.)

Hybrids	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Todd 602	4	8	27	1.5	82.5	94
Va.510	1	4	27	2.5	78.8	90
Funk G75A	0	8	27	1.0	86.4	99
VPI 646	0	9	27	1.0	96.8*	110
Todd 870	0	10	27	1.5	93.6*	107
Va.514	4	7	28	1.5	87.9	100
Va.126t	0	0	28	0.5	107.2*	122
Va.339	0	5	28	1.5	96.4*	110
Iowa 4059	1	11	28	3.0	73.0	83
Broadbent 402	0	8	28	1.5	97.0*	111
Pioneer 338A	6	11	28	2.5	85.3	97
DeKalb 852	2	12	28	2.0	82.7	94
DeKalb 837	0	6	28	1.5	92.6*	106
Va.403	5	8	28	2.0	81.3	93
US 13	2	6	28	2.0	84.7	97
Va.415	0	4	28	0.5	105.3*	120
Pa 820	0	1	28	2.0	89.0*	102
PAG 403	1	9	28	1.5	74.9	85
DeKalb 803	2	8	29	3.0	75.9	87
DeKalb 801	2	4	29	1.5	88.3	101
VPI 730W	4	10	29	2.0	85.1	97
US 505	2	4	29	0.5	95.9*	109
Va.424	3	10	29	1.5	99.2*	113
Va.412	1	6	29	1.5	89.2*	102
Va.518	4	1	30	1.5	72.5	83
Va.332	4	1	30	1.5	89.7*	102
Ky 106	0	18	30	2.5	81.3	93
VPI 645	1	6	30	1.5	102.2*	117
Funk G134	0	7	30	1.5	90.4*	103
PAG 444	1	4	31	1.5	88.7*	101
Va.417	0	3	31	1.0	79.7	91
Va.126d	0	2	31	2.0	86.6	99
Broadbent 235AW	0	4	31	2.0	71.0	81
Va.414	6	4	32	1.5	95.2*	109
US 523W	0	8	32	2.0	75.6	86
Va.1232W	4	4	32	1.5	73.1	83
Average for test	1.31	8.68	26.80	1.88	84.55	

(1) Quality scored from 1 = very good to 5 = very poor.
* Starred hybrids are not significantly different in yield from top yielding hybrid.

Cooperator: F. S. McClaugherty
Date Planted: May 11; Date harvested: October 5
Fertilizer applied: 50-50-50 before planting; 16-64-32 in row at planting.

Performance of Corn Hybrids at Emory, 1956
(14,800 plants per acre)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Mich.570	0	24	22	2.3	87.4	94
Va.506	2	15	23	2.3	85.4	92
Pioneer 301A	0	21	23	3.0	87.4	94
Pioneer 349	2	21	23	2.3	72.7	78
Va.403	5	14	24	1.3	112.2*	121
PAG 234	1	20	24	2.7	80.3	87
Va.503	0	18	24	2.0	83.8	90
Pa 602A	0	13	24	2.7	79.9	86
Pioneer 329	1	8	24	2.3	96.1	104
Va.501	7	18	24	3.1	72.5	78
Funk G77A	5	13	24	2.3	92.0	99
Pioneer 371	4	15	24	3.0	78.7	85
Va.505	3	14	24	2.7	80.6	87
Pa 444	1	26	24	3.0	55.8	60
Va.508	3	9	24	2.0	83.7	90
Todd 631	1	23	24	2.7	79.1	85
S.St.Mohawk	2	9	24	2.3	82.0	88
Pioneer 342A	1	27	25	2.3	75.4	81
Broadbent 402	1	10	25	1.7	103.3*	111
DeKalb 665	0	21	25	1.7	82.2	89
Todd 620	1	34	25	2.3	85.4	92
S.St.Pocahontas	0	11	25	2.0	81.9	88
Va.097	0	19	25	2.7	80.7	87
Ohio W64	0	5	25	1.7	86.2	93
PAG 347	0	14	25	2.7	86.3	93
Funk G76	1	13	25	2.0	95.1	102
Pioneer X1363	3	10	25	2.0	96.6	104
DeKalb 801	3	18	25	2.3	105.0*	113
Park 400	2	14	25	2.0	97.9*	105
Pioneer 338A	0	15	25	2.0	89.1	96
Todd 642	2	14	25	1.0	93.9	101
W.Va. B25	1	22	25	2.3	88.6	95
PAG 403	0	10	26	2.3	89.5	96
Ky 106	5	16	26	3.0	91.3	98
DeKalb 852	3	14	26	2.7	93.0	100
DeKalb 811	2	15	26	2.3	86.4	93
Iowa 4376	0	11	26	2.3	80.6	87
Va.445	0	10	26	2.7	82.0	88
PAG 444	0	4	26	1.7	104.5*	113
Va.429	6	13	26	2.7	85.0	92
Funk G50	1	26	26	2.0	86.8	94
US 13	2	11	26	1.7	89.7	97
Va.510	0	4	26	2.0	89.7	97
Va.502	2	10	26	2.0	100.4*	108
US 505	3	15	26	1.3	114.4*	123

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Emory Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Funk G134	0	9	26	1.7	96.6	104
Todd 870	3	15	27	2.0	91.1	98
Broadbent 235AW	2	14	27	2.7	84.2	91
Funk G91	0	8	27	2.0	106.7*	115
Va.126c	6	8	27	1.3	106.6*	115
VPI 646	4	4	27	1.0	119.4*	129
Funk G75A	4	12	27	1.7	99.7*	107
Va.512	4	21	27	2.0	82.7	89
Va.2014	0	16	27	1.3	94.0	101
Va.415	1	5	28	1.0	98.9*	107
Wood V30	1	3	28	1.0	107.2*	116
US 523W	1	11	28	2.7	68.0	73
PAG 401	0	14	28	1.7	91.0	98
Iowa 4059	0	22	28	3.0	77.4	83
DeKalb 803	0	14	28	2.7	73.1	79
Indiana 844	4	14	28	2.7	84.5	91
VPI 426	0	8	28	1.0	100.2*	108
Pa 820	1	11	28	3.0	82.1	88
Va.339	0	6	28	1.7	99.2*	107
Va.518	1	11	28	1.7	92.0	99
VPI 648	1	10	28	2.0	106.2*	114
Va.1232W	1	11	28	2.3	79.3	85
Ohio C54	1	15	28	2.3	78.3	84
Va.514	0	6	28	2.0	98.7*	106
Wood V26Y	1	6	28	1.3	91.8	99
Va.126t	0	9	28	0.7	103.8*	112
Va.424	3	4	28	1.0	104.4*	113
VPI 645	0	10	29	1.7	91.5	99
Todd 602	1	20	29	1.0	95.3	103
VPI 730W	3	9	29	1.7	78.3	84
DeKalb 837	2	7	29	1.3	87.2	94
Va.417	0	7	30	1.3	77.2	83
Va.412	0	12	30	2.0	99.9*	108
Va.332	3	5	31	1.7	97.6	105
Va.414	1	16	31	2.0	91.5	99
Va.126d	1	2	31	1.3	90.0	97
Average for tests	1.5	13.0	26.3	2.0	89.8	

(1) Quality scored 1 = very good to 5 = very poor.
* Starred hybrids are not significantly different in yield from top-yielding hybrid.
Cooperator: F. S. McClaugherty
Date Planted: May 11 Date harvested: October 5
Fertilizer applied: 50-50-50 before planting; 16-64-32 in row at planting.

Performance of Corn Hybrids, Blacksburg, 1956
(13,200 plants per acre)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Va.503	0	22	21	1.8	83.3	91
Pioneer 371	1	10	22	1.9	81.9	89
W.Va.B-25	4	15	22	1.5	87.6	95
Pioneer 349	1	14	22	2.1	85.8	93
Pioneer 342A	2	20	22	1.6	85.5	93
Va.508	0	11	23	1.9	88.8	97
Va.501	0	10	23	2.5	81.5	89
Va.505	0	9	23	1.6	95.0	103
Pa 602A	2	8	23	1.4	79.2	86
Mich 570	2	20	23	1.2	90.9	99
PAG 234	2	14	24	1.7	79.3	86
Funk G77A	1	12	24	1.3	90.0	98
Pioneer 338A	2	18	25	1.9	88.7	96
Va.2014	1	9	25	1.7	96.2	105
Va.506	2	18	25	1.4	82.2	89
DeKalb 665	1	9	25	1.7	88.0	96
Funk G75A	1	7	25	1.6	95.9	104
Pioneer 329	2	11	25	1.8	87.6	95
Va.510	0	10	25	1.4	103.2*	112
Va.429	1	10	25	1.7	94.4	103
PAG 347	2	4	25	1.5	88.9	97
Va.097	1	8	25	1.7	95.1	103
Ohio C54	1	10	26	1.5	95.6	104
Funk G76	0	7	26	1.0	93.1	101
Ohio W64	0	2	26	1.3	100.3*	109
Va.502	0	7	26	1.4	94.7	103
Pa.444	2	23	26	1.8	68.1	74
US 13	2	14	26	1.7	94.6	103
Va.512	1	12	26	1.3	95.6	104
Todd 620	2	16	26	1.4	84.0	91
Todd 642	1	5	26	1.4	97.9	106
Iowa 4059	5	12	26	1.7	76.4	83
Park 400	1	10	26	1.5	96.9	105
Todd 602	1	6	27	1.8	86.5	94
Va.424	5	7	27	1.4	95.1	103
DeKalb 811	0	7	27	2.3	85.0	92
Iowa 4376	1	6	27	1.8	79.1	86
Pioneer X1363	0	5	27	1.7	93.6	102
Todd 870	1	7	27	1.9	96.0	104
Todd 631	1	12	27	1.4	85.1	93
Va.126c	1	7	27	1.3	107.8*	117
Va.417	0	3	27	1.8	81.2	88
DeKalb 803	2	7	28	1.3	76.0	83
PAG 401	2	13	28	1.8	87.5	95
Pioneer 301A	0	21	28	1.6	90.4	98

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Blacksburg Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Wood V26Y	1	9	28	1.9	88.3	96
DeKalb 837	0	6	28	1.7	86.9	94
S.St.Mohawk	2	8	28	1.4	79.2	86
VPI 426	1	6	28	1.2	93.2	101
Funk G50	0	14	28	1.8	84.5	92
Va.126t	1	3	28	1.3	105.3*	114
Va.445	0	1	29	2.1	71.7	78
Pa.820	3	6	29	1.6	83.9	91
VPI 730W	5	7	29	1.7	75.1	82
Indiana 844	2	15	29	1.9	90.0	98
S.St.Pocahontas	3	8	30	1.5	75.5	82
Va.415	0	5	30	1.3	82.5	90
Funk G134	0	4	30	1.8	87.8	95
Va.518	0	2	30	1.2	102.4*	111
DeKalb 801	1	6	30	1.7	91.9	100
Va.332	0	4	30	1.4	93.1	101
Wood V30	1	6	30	1.4	96.3	105
Broadbent 402	1	8	30	1.5	88.8	97
Funk G91	0	9	30	1.8	87.6	95
DeKalb 852	2	10	30	2.3	83.7	91
VPI 648	0	6	31	1.3	90.3	98
US 505	1	13	31	1.6	91.9	100
PAG 403	0	8	31	1.8	83.8	91
Va.514	0	3	31	1.7	93.7	102
Va.412	2	8	32	1.6	88.4	96
VPI 646	3	4	32	1.5	88.2	96
Va.1232W	6	10	32	1.3	73.7	80
Ky 106	1	13	32	2.2	80.2	87
Va.339	2	8	32	1.4	81.8	89
Va.414	1	6	32	1.5	85.8	93
Va.403	3	11	33	1.7	83.3	91
Broadbent 235AW	4	16	33	1.5	63.5	69
US 523W	1	8	33	1.6	68.7	75
Va.126d	1	3	34	1.4	94.9	103
VPI 645	2	7	34	1.4	87.5	95
PAG 444	0	7	34	1.4	84.4	92
Average of test	1.3	9.4	27.6	1.6	87.6	

(1) Scored from 1 = very good to 5 = very poor.
* Not significantly different in yield from top yielding hybrid.
Date planted: May 10; Dates harvested: October 15 and 17.
Fertilizer applied: 16-64-32 broadcast before planting; 14-56-28 in row at planting; 400# Cyamamid (82#N) broadcast at emergence.
Size of plot: 3' x 33'; No.of reps: 6
Growing conditions: Favorable

Performance of Corn Hybrids Tested West of Blue Ridge, 1956
(Staunton, Emory, and Blacksburg)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Pioneer 371	1	10	21	2.8	76.3	91
Pioneer 349	2	10	21	2.5	72.6	87
Va.503	0	12	22	1.5	77.0	92
Pioneer 342A	2	14	22	2.1	75.3	90
Mich.570	1	13	22	1.7	78.0	93
Va.505	1	7	22	2.5	81.0	97
Va.508	1	9	22	2.2	78.5	94
Pa.602A	1	9	22	2.3	71.8	86
W.Va.B25	2	14	22	2.1	79.0	94
PAG 234	1	11	22	2.1	73.0	87
Pa.444	1	17	23	2.7	55.8	66
Va.501	1	10	23	2.9	71.2	85
Funk G77A	1	10	23	2.0	81.8	97
Va.506	1	11	23	2.0	76.5	91
Pioneer 329	1	7	23	2.0	83.7	100
Todd 620	1	14	24	1.7	75.7	90
Va.429	1	8	24	2.1	80.9	96
PAG 347	1	7	24	2.2	80.9	96
DeKalb 665	0	8	24	1.8	79.7	95
Ohio W64	0	2	24	1.9	82.9	99
Va.097	1	10	24	2.1	82.4	98
Todd 631	1	10	24	2.1	74.7	89
Va.2014	0	8	24	2.0	84.9	101
Ia.4376	0	6	24	2.3	71.9	86
Va.502	1	5	24	1.7	89.4	107
Pioneer X1363	0	7	24	1.7	88.6	106
Funk G50	0	11	24	1.7	81.0	97
DeKalb 811	1	7	24	2.3	80.4	96
Pioneer 301A	0	14	24	2.1	80.5	96
Funk G76	0	7	25	1.8	86.2	103
Va.510	0	5	25	2.1	86.4	103
Funk G75A	1	6	25	1.7	86.3	103
PAG 401	1	11	25	2.0	82.8	99
Va.512	1	10	25	1.9	82.1	98
Todd 642	0	6	25	1.7	85.0	101
Pioneer 338A	2	11	25	2.2	84.8	101
S.St. Mohawk	1	7	25	1.9	77.4	92
Ohio C54	1	6	25	1.9	78.2	93
Park 400	0	8	25	2.0	87.3	104
Todd 602	1	8	25	1.7	79.2	94
US 13	2	8	25	1.7	85.8	102
Todd 870	1	8	26	2.1	85.1	101
S.St.Pocahontas	2	5	26	1.7	73.5	88
Va.445	0	4	26	2.4	67.9	81
Broadbent 402	0	6	26	1.9	87.9	105

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West of Blue Ridge Region Test (Contd.)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Average Yield % of Check
Wood V26Y	1	7	26	1.6	82.8	99
Ia.4059	2	11	26	2.3	69.5	83
Ind.844	1	10	26	2.6	81.7	97
Va.424	3	5	26	1.4	88.5	105
Va.126c	1	6	26	1.8	95.0	113
VPI 426	0	4	26	1.3	85.1	101
DeKalb 852	2	8	27	2.2	84.6	101
Pa.820	1	4	27	2.1	81.0	97
DeKalb 801	1	6	27	1.9	87.2	104
Va.518	1	3	27	1.6	88.3	105
Va.126t	0	3	27	1.1	98.1	117
DeKalb 837	0	5	27	1.7	82.0	98
PAG 403	0	6	27	1.9	80.0	95
DeKalb 803	1	7	27	2.2	68.7	82
VPI 648	0	6	27	1.5	88.0	105
Funk G91	0	7	27	2.0	87.9	105
Va.339	1	5	27	1.5	83.9	100
Funk G134	0	6	27	1.6	87.2	104
Wood V30	0	4	27	1.6	91.0	108
US 505	1	9	27	1.3	90.2	107
VPI 730W	3	6	27	1.8	74.6	89
VPI 646	2	4	27	1.3	92.3	110
Ky.106	1	12	28	2.6	79.6	95
Va.514	1	4	28	1.8	88.7	106
Va.415	0	4	28	1.2	86.1	103
Va.332	1	3	28	1.7	88.3	105
Va.417	0	4	28	1.7	75.8	90
Va.403	3	8	28	1.7	83.3	99
VPI 645	1	6	29	1.5	85.9	102
Broadbent 235AW	2	9	29	1.9	67.4	80
PAG 444	0	4	29	1.5	85.8	102
Va.412	1	7	29	1.6	85.5	102
Va.1232W	3	8	29	1.6	74.9	89
Va.414	1	6	29	1.6	84.3	100
US 523W	0	7	30	1.9	70.0	83
Va.126d	0	2	31	1.5	86.8	103
Average of test	0.9	7.6	25.5	1.9	81.3	

(1) Quality scored from 1 = very good to 5 = very poor.

Performance of Corn Hybrids at Dryden, 1956
(Southwest Virginia)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Average Yield Bu/A	Rank
Pioneer 342A	3	6	21	2.3	66	14
Broadbent 402	5	3	23	1.8	78	5
Pa.711	1	4	23	1.4	76	8
DeKalb 406	1	5	23	1.8	68	13
Va.502	2	5	24	1.9	75	9
Ohio W64	1	2	25	1.7	77	6
DeKalb 801	4	4	26	1.8	74	10
Funk G91	0	2	26	1.8	79	4
VPI 426	2	2	26	1.6	80	3
VPI 646	3	3	26	1.6	85	1
Broadbent 235W	3	6	26	1.4	60	15
Va.3039	2	5	27	1.3	77	7
US 523W	5	6	27	1.4	56	16
VPI 645	6	6	27	1.7	69	11
VPI 648	4	4	27	1.3	83	2
Va.1232W	6	3	28	1.7	68	12

(1) Quality scored from 1 = very good to 5 = very poor.

Cooperator: J. P. Lyle, C. H. Coomer, E. C. Reynolds
Date planted: May 10; Date harvested: October 8
No. of reps: 6 Size of plots: 1 row, 42" x 33'

Performance of Corn Hybrids at Ewing, 1956
(Southwest Virginia)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Moisture at harvest (%)	Quality Score (1)	Bu/A	Rank in Yield
Ohio W64	5	27	22	1.5	52	14
VPI 426	1	17	22	1.5	67	1
Va.3039	7	28	23	2.5	65	3
VPI 648	8	36	23	1.3	60	9
VPI 646	3	36	23	2.1	65	4
VPI 645	6	29	23	2.0	63	7
Va.1232W	8	38	25	1.9	66	2
US 523W	8	40	25	1.8	61	8
DeKalb 801	10	40	24	1.6	65	5
DeKalb 406	4	22	19	1.9	57	13
Broadbent 402	9	43	23	2.4	59	10
Broadbent 235W	9	34	25	2.0	58	12
Funk G91	6	32	22	1.3	64	6
Pioneer 342A	4	50	22	1.9	44	16
Va.502	4	40	22	2.1	59	11
Pa.711	12	34	23	1.5	47	15

(1) Quality scored from 1 = very good to 5 = very poor.

Cooperators: J. P. Lyle, J. H. Wheeler, E. C. Reynolds
Date planted: May 10
Date harvested: October 8
No. reps: 4
Size of plots: 1 row, 42" x 33'

Performance of Corn Hybrids, Floyd County, 1956
(Western Virginia)

Hybrid	Plants Broken (%)	Moisture at harvest (%)	Average Yield Bu/A	Rank in Yield
Pioneer 342A	14	19	74	14
Ohio W64	10	23	78	12
VPI 426	9	24	88	4*
Va. Exp. 502	5	24	87	7*
Pioneer 338A	11	25	82	8*
Pa.711	13	25	79	11
VPI 648	4	26	92	2*
US 13	16	26	81	10
Funk G91	13	26	72	16
Wood V26Y	4	27	76	13
Va. Exp. 3039	2	27	88	5*
Va. Exp. 521	4	27	87	6*
VPI 646	5	27	91	3*
Va. Exp. 530	9	27	92	1*
VPI 645	7	29	82	8*
US 523W	3	35	72	15

* Not significantly different in yield from highest yielding hybrid.

Cooperators: E. M. Talley, Jim Nester
Date planted: May 2
Date harvested: October 12
No. or reps: 6
Size of plots: 1 row, 3' x 33'

Performance of Early Hybrids at Holland, 1956
(Southeastern Virginia)

Hybrid	Plants Lodged (%)	Plants Broken (%)	Ear Height Inches	Moisture at harvest (%)	Quality Score (1)	Avg. Yield Bu/A	Rank in Yield
Pa 444	0	0	22	21	3.1	54	16
W.Va.B25	2	0	30	22	2.0	88	9
Pioneer 342A	1	0	29	22	2.2	90	8
Pa.711	0	0	27	23	2.8	73	13
Ohio W64	0	0	26	23	3.2	72	15
Va.502	0	0	30	23	2.5	101	3
Mich 570	1	1	26	23	2.3	85	11
Funk G50	1	1	25	24	1.7	90	7
Funk G76	0	0	30	24	1.7	104	2
Iowa 4059	1	0	29	23	2.6	72	14
VPI 426	0	0	28	24	2.7	93	6
Va.518	0	0	27	24	2.7	99	4
S.St.Pocahontas	2	1	28	24	2.3	86	10
Ohio C54	0	0	26	24	2.3	80	12
Va.126t	0	0	31	24	2.2	110	1
Va.126d	0	0	28	26	2.8	96	5

(1) Quality scored from 1 = very good to 5 = very poor.

Cooperator: M. W. Alexander
Date planted: April 25
Date harvested: September 10
No. of reps: 6
Plot size: 1 row 3' x 30'
Fertilizer applied: 35-70-70 before planting, 100# in split side-dress applications