



PERFORMANCE OF
CORN HYBRIDS
IN ALABAMA, 1986

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Lowell T. Frobish, Director Auburn University
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INFORMATION CONTAINED HEREIN IS AVAILABLE TO ALL WITHOUT REGARD TO RACE, COLOR, SEX, OR NATIONAL ORIGIN

PERFORMANCE OF CORN HYBRIDS IN ALABAMA, 1986

W. C. Johnson and D.L. Thurlow¹

INTRODUCTION

Corn hybrids are evaluated annually by the Alabama Agricultural Experiment Station in the Regular Corn Hybrid Test and the Preliminary Corn Test on a northern, central, and southern regional basis. The Marion Junction, or Black Belt Substation, corn test is used as the prairie soil regional comparison. Entries in the preliminary tests are both experimental and newly released hybrids. If a hybrid is outstanding in the preliminary test, it is entered in the regular corn test the following year. White and early corn hybrids are tested at one location in each region. One regular and one white corn hybrid test are irrigated at Headland in southern Alabama.

The locations and cultural practices for the tests are shown in Table 1.

The tests were designed as a randomized complete block with four replications. Row width was 30 to 36 inches depending on location. Two-row plots were used, with row length ranging from 20 to 30 feet depending, again, on location. The target plant population for the tests was 20,000 plants per acre with a seeding rate of 23,000 seeds per acre. The irrigated tests at Headland were seeded at a rate of 30,000 plants per acre and thinned to 25,000.

Grain yields were adjusted to 15.5 percent moisture and converted to bushels (56 pounds) per acre. Stalks broken or leaning more than 45

¹Respectively, Professor and Associate Professor of Agronomy and Soils.

degrees were considered lodged. The mid-silk data measured the number of days from planting until one-half of the plants in the plots were showing silks. Bushel test weights are reported as regional averages from this year's data.

The corn hybrid tests are examined for disease incidence each year by R.T. Gudauskas, Professor of Plant Pathology. When virus or other disease symptoms indicate crop damage, disease ratings are compiled and published in this report. Virus infection data from the test at Marion Junction are reported this year along with virus infection ratings from Belle Mina and Winfield.

To aid in determining real yield differences, a statistical analysis of variance is performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are given for each location's 1986 test. The difference in yield of two hybrids must exceed the L.S.D. value for one hybrid to be considered superior to the others in yield in that particular test. The C.V. is a measure of the variability in an experiment. An increase in its value indicates an increase in the unaccounted for variability.

Since the performance of hybrids varies with location and year, long-term averages from several locations are more reliable than 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of hybrids.

A committee comprised of Department of Agronomy and Soils and Alabama Cooperative Extension Service personnel involved in corn research reviewed the past 3 years of corn hybrid test data to assemble the list of acceptable hybrids on page 34.

The recommended hybrids are not all equal in performance. Some are outstanding in one or more characteristics; while others may not be obviously outstanding, they might possess a satisfactory combination of all characteristics.

ACKNOWLEDGMENTS

Appreciation is expressed to the following supervisory personnel of the outlying units whose quality work makes this a reliable source of information for farmers in their areas.

Northern Alabama

Tennessee Valley Substation, Belle Mina - W. B. Webster,

V.H. Calvert, II

Sand Mountain Substation, Crossville - J. T. Eason, M.E. Ruf

Upper Coastal Plain Substation, Winfield - R. A. Moore, Jr.

Central Alabama

Black Belt Substation, Marion Junction - H.W. Grimes, J.L. Holliman

Prattville Experiment Field - D. P. Moore

E. V. Smith Research Center, Shorter - W.B. Gordon

Plant Breeding Unit, Tallassee - S. P. Nightengale

Southern Alabama

Brewton Experiment Field - J. R. Akridge

Monroeville Experiment Field - J. R. Akridge

Gulf Coast Substation, Fairhope - E. L. Carden, N.R. McDaniel,

M.D. Pegues

Wiregrass Substation, Headland - H.W. Ivey, L. Wells

Appreciation is also expressed to the following people:

W. H. Hearn and Mrs. Sally Bagwell, Research Data Analysis, for the computation, summarization, and analysis of the data in this report,

R. T. Gudauskas, Professor and Acting Head of Plant Pathology, for making virus ratings and the virus disease reactions in this report.

TABLE 1. LOCATIONS AND CULTURAL PRACTICES FOR THE 1986 CORN HYBRID

Location	Planting date	Nitrogen ^{1/} rate	Plant population	Date harvested	Herbicides used
Northern Alabama					
Tennessee Valley Substation (Belle Mina)	April 1	150	20,000	September 8	Atrazine
Sand Mountain Substation (Crossville)					
Regular test	April 10	150	20,000	August 26	Atrazine + Dual
Preliminary test	April 11	150	20,000	September 8	Atrazine + Dual
White corn test	April 18	150	20,000	September 26	Atrazine + Dual
Early corn test	April 2	150	20,000	August 25	Atrazine + Dual
Silage corn test	April 28	150	20,000	August 25	Atrazine + Dual
Upper Coastal Plain Substation (Winfield)	March 27	160	20,000	August 21	Atrazine
Central Alabama					
E.V. Smith Research Center (Shorter)					
Early corn test	April 12	120	20,000	July 30	Atrazine + Dual
White corn test	March 11	120	20,000	July 31	Atrazine + Dual
Plant Breeding Unit (Tallassee)	March 25	120	20,000	August 29	None
Prattville Experiment Field (Prattville)	March 25	120	20,000	September 8	Atrazine
Black Belt Substation (Marion Junction)	March 11	120	20,000	August 7	Atrazine + Paraquat
Southern Alabama					
Brewton Experiment Field (Brewton)	March 5	125	20,000	August 1	Atrazine
Monroeville Experiment Field (Monroeville)					
Regular test	March 27	120	20,000	September 5	Atrazine
Date of Planting 1	March 6	120	20,000	September 8	Atrazine
Date of Planting 2	March 28	120	20,000	September 8	Atrazine
Date of Planting 3	May 2	120	20,000	September 8	Atrazine
Lower Coastal Plain Substation (Camden)	March 24	150	20,000	August 27	Atrazine + Sutan
Wiregrass Substation (Headland)					
Regular test (unirrigated)	March 25	120	20,000	August 4	Atrazine + Lasso
Regular test (irrigated)	March 25	200	25,000	August 25	Atrazine + Lasso
White corn test (irrigated)	March 25	200	25,000	September 8	Atrazine + Lasso
Gulf Coast Substation (Fairhope)					
Regular test	March 10	150	20,000	August 7	Lasso + Bladex
Preliminary test	March 11	150	20,000	August 8	Lasso + Bladex
Early corn test	February 27	150	20,000	August 7	Atrazine + Lasso

^{1/}Pounds per acre N. Lime, phosphorus, potassium, zinc, and sulfur were applied according to recommendation based on soil test.

TABLE 2. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR NORTHERN
ALABAMA¹ 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.		LODGED STALKS, AV.	
	3-YR.	2-YR.	3-YR.	2-YR.
	1984-86	1985-86	1984-86	1985-86
	BU.	BU.	PCI.	PCI.
PIONEER 3165	139	139	1.9	2.3
PIONEER 3147	135	135	4.1	5.7
PIONEER 3320	133	134	3.6	4.3
PIONEER 3187	128	133	2.9	3.7
NORTHRUP KING PX 95	128	132	3.9	5.3
JACQUES 8400	124	125	3.6	4.7
ASGROW/O'S GOLD 2570	124	123	5.0	6.7
MCCURDY 8150	124	125	3.7	4.5
JACQUES JX 247	123	120	6.6	9.0
FUNKS G-4733	123	123	2.6	3.7
PAYMASTER 8990	122	123	3.4	4.3
FUNKS G-4522	122	124	3.8	4.8
NORTHRUP KING PX 9581	121	120	5.1	7.2
FUNK'S RING AROUND 1502	120	121	4.1	5.5
ASGROW/O'S GOLD 5509	120	119	4.8	6.5
MCCURDY 84AA	120	119	4.7	5.8
CUKER 21	119	118	4.8	6.3
CUKER 19A	119	121	3.2	4.5
ZIMMERMAN Z 27 Y	-	136	-	6.3
PIONEER 3055	-	136	-	2.5
MCCURDY 8172	-	135	-	6.2
SUNBELT 1860	-	130	-	3.2
PAYMASTER 7990	-	125	-	4.5
AGRATECH GK 850	-	124	-	3.5
SUNBELT 1802	-	123	-	4.2
SUNBELT 1827	-	120	-	6.2
STAUFFER S 7759	-	119	-	5.2

¹BELLE MINA, CROSSVILLE, AND WINFIELD.

TABLE 3. 1986 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS
IN NORTHERN ALABAMA

BRAND NAME-HYBRID	BELLE MINA	CROSSVILLE	WINFIELD	1986 REGIONAL AVERAGES			
				YIELD PER ACRE	LOGGED STALKS	TEST WEIGHT	MID- SILK
	BU.	BU.	BU.	BU.	PCI.	LB./BU.	MO.-DA.
DEKALB DK 689	136	106	126	123	2.7	55.8	6-19
PIONEER 3165	130	109	112	117	2.3	56.2	6-20
DEKALB DK 789	130	99	117	115	4.0	55.3	6-18
ZIMMERMAN Z 27 Y	144	95	104	115	7.3	55.7	6-21
PIONEER 3187	121	96	125	114	3.0	55.9	6-17
PIONEER 3147	117	97	124	112	5.0	53.2	6-22
FFR 811	118	114	104	112	4.0	54.7	6-17
FFR 815	117	101	117	112	2.7	55.9	6-18
MCCURDY 8172	142	97	91	110	8.0	57.2	6-21
PIONEER 3320	120	114	95	110	4.7	57.1	6-18
PIONEER 3055	127	95	103	108	2.7	56.3	6-21
JACQUES 8400	125	104	96	108	6.3	57.9	6-18
PAYMASTER 8990	120	105	87	104	5.3	57.1	6-19
FUNKS G-4733	125	92	92	103	4.0	57.2	6-19
FUNKS G-4522	117	110	77	101	6.7	56.0	6-16
STAUFFER S 7759	117	101	86	101	5.7	55.9	6-16
ASGROW/O'S GOLD 2570	116	100	87	101	9.7	55.3	6-16
FUNKS G-4868	111	91	99	100	3.3	54.4	6-22
AGRATECH GK 850	113	107	82	100	5.3	56.0	6-16
AGRATECH GK 900	108	100	92	100	4.3	58.0	6-18
PAYMASTER 7990	125	103	72	100	7.0	54.1	6-16
NORTHROP KING PX 95	121	85	94	100	7.3	55.5	6-19
SUNBELT 1860	103	101	95	100	4.3	56.5	6-21
COKER 8905	105	87	106	99	3.3	54.9	6-24
MCCURDY 8150	135	85	77	99	6.3	56.6	6-18
JACQUES JX 247	129	92	76	99	9.7	56.0	6-20
FUNKS G-4734	118	92	86	99	5.7	57.0	6-19
COKER 19A	107	94	94	98	6.7	55.4	6-17
DEKALB DK 748	129	91	73	98	7.7	55.2	6-20
JACQUES 8700	127	87	75	96	4.7	56.1	6-20
ASGROW/O'S GOLD 5509	123	96	69	96	7.0	56.0	6-20
NORTHROP KING PX 9581	116	94	73	94	9.7	55.6	6-15
MCCURDY 84AA	114	101	68	94	5.3	56.8	6-16
FUNK'S RING AROUND 1502	123	96	58	92	7.7	55.6	6-16
COKER 21	123	90	63	92	7.7	55.7	6-20
FFR 901	128	90	58	92	4.3	56.9	6-20
AGRATECH GK 925	113	86	70	90	6.3	55.8	6-20
SUNBELT 1802	107	103	56	89	5.7	56.1	6-16
SUNBELT 1827	128	79	58	88	6.7	56.4	6-20
PAYMASTER 9990	105	84	73	87	4.7	54.3	6-24
TEST AVERAGE	120.7	96.6	87.7				
L.S.D. (.05)	16.4	12.9	23.0				
C.V. (%)	2.7	2.5	18.7				

TABLE 4. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR CENTRAL ALABAMA¹/1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.		LODGED STALKS, AV.	
	3-YR.	2-YR.	3-YR.	2-YR.
	1984-86	1985-86	1984-86	1985-86
	BU.	BU.	PCI.	PCI.
PIIONEER 3320	83	73	13.2	17.8
PIIONEER 3165	81	78	10.2	10.8
JACQUES 8400	77	67	10.5	15.0
PIIONEER 3147	75	64	10.7	13.0
ASGROW/O'S GOLD 2570	74	64	16.5	22.5
MCCURDY 8172	73	67	8.3	11.5
MCCURDY 8150	68	58	14.7	21.0
NORTHRUP KING PX 9581	68	58	12.8	16.5
ASGROW/O'S GOLD 5509	65	56	16.0	22.0
FUNKS G-4733	65	58	7.2	10.3
FUNK'S RING AROUND 1502	64	52	11.7	16.0
JACQUES JX 247	63	54	16.5	23.3
FUNKS G-4522	62	54	14.5	20.3
MCCURDY 84AA	62	51	16.5	22.3
PAYMASTER 8951	62	49	15.7	22.3
COKER 21	61	52	15.0	21.0
PAYMASTER 8990	57	44	12.3	17.5
COKER 19A	57	42	17.5	25.5
SUNBELT 1876	-	70	-	11.0
ZIMMERMAN Z 27 Y	-	64	-	15.3
SUNBELT 1860	-	63	-	10.0
PIIONEER 3055	-	61	-	16.3
SUNBELT 1802	-	56	-	19.8
AGRATECH GK 850	-	55	-	15.8
FFR 811	-	53	-	23.0
SUNBELT 1827	-	52	-	26.3
PAYMASTER 7990	-	51	-	27.0
STAUFFER S 7759	-	51	-	14.3
P-A-G SX 383	-	49	-	24.3

¹/PRATTVILLE, CAMDEN.

TABLE 5. 1986 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS
IN CENTRAL ALABAMA

BRAND NAME-HYBRID	PRAITVILLE	CAMDEN	1986 REGIONAL AVERAGES			
			YIELD	LODGED	TEST	MID-
			PER ACRE	STALKS	WEIGHT	SILK
	BU.	BU.	BU.	PCI.	LB./BU.	MO.-DA.
AGRATECH GK 850	60	87	73	1.0	54.6	6-15
ASGROW/O'S GOLD 2570	61	84	72	4.5	54.4	6-17
SUNBELT 1802	66	78	72	4.5	55.4	6-15
JACQUES 8400	64	79	71	2.5	52.6	6-18
DEKALB DK 689	66	76	71	8.0	53.3	6-18
SUNBELT 1882	59	82	71	0.5	56.8	6-20
PIONEER 3320	59	82	71	3.5	56.6	6-16
PIONEER 3055	63	78	70	9.0	56.8	6-18
NORTHROP KING PX 9581	63	75	69	5.0	54.7	6-15
ZIMMERMAN Z 27 Y	70	67	68	7.5	52.5	6-18
STAUFFER S 7759	64	70	67	2.5	55.4	6-17
PIONEER 3165	56	78	67	5.5	56.0	6-19
MCCURDY 8150	56	78	67	6.0	56.0	6-17
MCCURDY 8172	57	77	67	4.5	57.8	6-18
SUNBELT 1827	58	74	66	5.5	54.8	6-19
FUNK'S KING AROUND 1502	61	70	65	1.5	53.9	6-16
ASGROW/O'S GOLD 5509	49	82	65	6.0	54.8	6-19
JACQUES 8700	53	78	65	11.0	55.9	6-19
CUKER 8905	57	73	65	0	57.1	6-20
FFR 815	58	73	65	1.5	53.7	6-18
PAYMASTER 8951	58	71	64	6.5	55.9	6-16
P-A-G SX 383	62	67	64	9.0	56.4	6-18
FFR 811	58	71	64	10.5	52.6	6-16
DEKALB DK 789	57	71	64	6.5	52.6	6-17
FUNKS G-4522	55	73	64	8.0	53.3	6-16
PAYMASTER 9990	58	69	64	7.0	55.6	6-23
MCCURDY 84AA	57	70	64	6.5	55.1	6-16
PAYMASTER 7990	59	68	63	5.0	51.5	6-16
FUNKS G-4868	52	74	63	4.0	53.4	6-20
DEKALB DK 748	57	69	63	6.0	52.5	6-18
PIONEER 3147	58	67	63	3.5	49.9	6-19
PAYMASTER 8990	55	70	63	8.0	55.2	6-18
AGRATECH GK 900	52	71	61	6.5	57.0	6-17
FUNKS G-4733	46	75	61	5.0	56.8	6-18
SUNBELT 1860	52	66	59	.5	55.3	6-19
FUNKS G-4765	55	62	59	5.5	54.9	6-19
CUKER 21	50	66	58	5.0	54.9	6-19
JACQUES JX 247	43	70	56	6.0	54.5	6-19
CUKER 19A	49	61	55	2.0	53.5	6-18
NORTHROP KING PX 95	44	67	55	13.0	56.5	6-17
SUNBELT 1876	40	62	51	6.0	56.5	6-23
TEST AVERAGE	56.5	72.6				
L.S.D. (1.0%)	9.0	15.3				
C.V. (%)	11.4	15.0				

TABLE 6. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR SOUTHERN ALABAMA, 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.		LODGED STALKS, AV.	
	3-YR.	2-YR.	3-YR.	2-YR.
	1984-86	1985-86	1984-86	1985-86
	BU.	BU.	PCI.	PCI.
PIONEER 3165	97	89	1.1	1.1
MCCURDY 8172	92	82	2.8	2.5
PIONEER 3320	90	80	1.7	2.1
PIONEER 3147	89	79	2.5	2.6
MCCURDY 8150	88	77	3.2	4.3
ASGROW/O'S GOLD 5509	87	76	2.8	3.6
PIONEER 3187	85	73	.6	.8
COKER 21	84	74	2.9	3.3
JACQUES JX 247	82	74	2.3	2.8
JACQUES 8400	82	75	2.3	2.9
FUNKS G-4733	81	72	1.4	1.9
NORTHRUP KING PX 95	81	69	2.4	3.3
FUNK'S RING AROUND 1502	80	73	2.0	2.4
MCCURDY 84AA	79	69	4.6	4.9
PAYMASTER 8951	78	68	2.9	3.6
PIONEER 3055	-	81	-	1.8
FUNKS G-4614	-	79	-	2.8
ASGROW/O'S GOLD 2570	-	78	-	3.5
SUNBELT 1827	-	75	-	3.8
ZIMMERMAN Z 27 Y	-	74	-	2.3
NORTHRUP KING PX 9581	-	71	-	5.3
STAUFFER S 7759	-	70	-	2.5
AGRATECH GK 850	-	68	-	3.5
PAYMASTER 7990	-	68	-	3.8
P-A-G SX 383	-	68	-	3.1
SUNBELT 1802	-	66	-	5.0
FFR 811	-	65	-	3.3

TABLE 7. 1986 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN SOUTHERN ALABAMA

BRAND NAME-HYBRID	FAIRHOPE	BRENTON	MONROEVILLE	HEADLAND	1986 REGIONAL AVERAGES			
					YIELD	LODGED	TEST	MID-
					PER ACRE	STALKS	WEIGHT	SILK
	BU ₂	BU ₂	BU ₂	BU ₂	BU ₂	PCI ₂	LB ₂ /BU ₂	BU ₂ -DA ₂
ASGRON/O'S GOLD 5509	178	70	89	48	96	4.8	56.5	6-5
PIONEER 3165	148	118	72	45	96	1.8	56.2	6-6
ASGRON/O'S GOLD 2570	165	79	75	58	94	2.5	55.3	6-2
MCCURDY 8172	154	104	81	38	94	2.8	56.9	6-7
SUNBELT 1827	162	79	82	49	93	2.8	55.9	6-5
JACQUES JX 247	163	87	74	43	92	4.0	56.0	6-5
PIONEER 3055	142	103	72	47	91	1.8	55.6	6-5
JACQUES 8700	162	76	78	48	91	3.3	56.9	6-6
DEKALB DK 689	162	93	63	44	91	1.8	55.3	6-4
PIONEER 3147	141	103	70	45	90	3.0	53.7	6-7
JACQUES 8400	163	84	71	41	90	2.0	57.0	6-4
DEKALB DK 789	156	92	65	44	89	3.0	54.8	6-4
COKER 21	163	81	69	43	89	3.5	55.9	6-6
FUNKS G-4614	143	83	77	51	89	2.8	57.4	6-2
PAYMASTER 9990	149	110	66	28	88	1.3	53.8	6-10
DEKALB DK 748	160	72	78	41	88	2.0	54.5	6-5
MCCURDY 8150	152	75	74	49	88	5.3	56.6	6-2
PIONEER 3187	138	81	81	50	87	1.5	55.2	6-3
P-A-G SX 383	162	62	78	47	87	3.3	57.1	6-3
ZIMMERMAN Z 27 Y	157	76	69	43	86	2.0	55.0	6-6
STAUFFER S 7759	150	66	76	51	86	2.8	55.9	6-1
FUNK'S RING AROUND 1502	158	70	72	42	86	3.0	56.1	6-2
AGRATECH GK 900	149	85	61	47	86	2.3	58.2	6-2
FUNKS G-4733	144	89	66	42	85	2.5	56.5	6-5
COKER 8905	151	96	61	31	84	.5	54.9	6-10
SUNBELT 1802	144	97	63	34	84	1.3	55.5	6-9
PAYMASTER 8951	158	62	74	41	84	4.3	56.4	6-3
NORTHROP KING PX 9581	148	59	75	53	84	5.3	55.3	6-1
MCCURDY 84AA	151	58	70	45	81	6.0	56.1	6-1
AGRATECH GK 850	147	61	70	45	81	3.5	55.7	6-2
PIONEER 3320	135	71	68	46	80	3.0	56.5	6-1
FFR 815	127	75	64	44	77	.3	55.1	6-4
SUNBELT 1802	139	55	65	49	77	6.0	55.5	6-1
NORTHROP KING PX 95	150	70	55	32	77	2.0	55.0	6-4
PAYMASTER 7990	136	49	68	39	73	3.5	53.5	6-1
FFR 811	130	56	57	37	70	3.3	54.6	6-2
TEST AVERAGE	150.9	79.0	70.7	43.8				
L.S.D. (1.05)	23.0	19.9	12.8	9.6				
L.V. (X)	10.2	17.2	12.2	15.7				

TABLE 8. BLACK BELT CORN HYBRIDIZYRUS TEST, 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LOGGED STALKS, AV.			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MIDSILK	TEST
	1984-86	1985-86		1984-86	1985-86		MO ₂ -DA ₂	LB ₂ /BU ₂
	BU ₂	BU ₂	BU ₂	PCI ₂	PCI ₂	PCI ₂		
SUNBELT 1860	112	94	69	2.7	4.0	6.0	-	55.3
PIONEER 3147	111	94	66	5.0	7.5	12.0	-	49.9
FUNKS G-4858	108	93	62	2.0	2.5	5.0	-	55.0
ASGROW/D'S GOLD 5509	100	92	65	2.0	3.0	4.0	-	54.3
MCCURDY 84AA	104	89	60	2.0	3.0	5.0	-	55.2
FFR 955	103	85	55	5.7	8.0	11.0	-	55.9
JACQUES 8400	102	89	62	2.7	3.5	6.0	-	54.6
NORTHROP KING PX 95	101	91	56	4.0	6.0	11.0	-	53.7
FUNKS G-4733	94	81	40	1.3	2.0	3.0	-	53.8
FUNK'S RING AROUND 1502	94	77	51	1.7	1.0	1.0	-	54.0
PIONEER 3187	94	82	77	2.7	3.5	7.0	-	52.0
ZIMMERMAN Z 11 W	94	73	73	3.7	5.0	9.0	-	55.1
FFR 929W	86	75	52	1.7	2.5	4.0	-	54.3
ZIMMERMAN Z 27 Y	-	103	76	-	2.0	3.0	-	53.0
DEKALB DK 789	-	100	65	-	5.5	10.0	-	52.5
DEKALB DK 689	-	98	73	-	3.5	6.0	-	52.1
FUNKS G-4734	-	85	49	-	3.0	5.0	-	55.2
SEEDTEC EX-918	-	72	41	-	4.5	7.0	-	57.7
FFR 815	-	71	51	-	1.0	2.0	-	53.6
FUNKS G-4779W	-	60	53	-	2.5	5.0	-	55.5
ZIMMERMAN Z 54 W	-	-	80	-	-	13.0	-	54.0
GOLD MEDAL 984	-	-	79	-	-	9.0	-	53.5
MCCURDY 85-60	-	-	77	-	-	4.0	-	55.6
MCCURDY 85-61	-	-	74	-	-	5.0	-	54.8
STAUFFER 8645	-	-	66	-	-	3.0	-	57.4
ZIMMERMAN Z 35	-	-	60	-	-	4.0	-	55.1
FUNKS 6066X	-	-	53	-	-	2.0	-	56.6
AGRATECH GK 875	-	-	52	-	-	6.0	-	52.0
NORTHROP KING PX 715	-	-	50	-	-	9.0	-	53.5
P-A-G SX 16A	-	-	49	-	-	3.0	-	51.5
FUNKS G-4868	-	-	48	-	-	4.0	-	52.1
FFR 767	-	-	47	-	-	4.0	-	55.3
GOLD MEDAL 3357	-	-	47	-	-	5.0	-	54.6
NORTHROP KING PX 79	-	-	43	-	-	3.0	-	51.5
SUNBELT 1882	-	-	39	-	-	8.0	-	53.2
COKER 8696	-	-	38	-	-	6.0	-	53.9
JACQUES 8250	-	-	36	-	-	5.0	-	54.4
MCNAIR 508	-	-	31	-	-	7.0	-	53.3
TEST AVERAGE			56.8					
L.S.D. (.05)			22.8					
C.V. (%)			20.6					

MARION JUNCTION. SEE TABLE 9 FOR VIRUS DISEASE REACTIONS.

VIRAL DISEASE REACTIONS OF SOME HYBRIDS IN 1986²

The two most prevalent viral diseases of corn in Alabama are maize chlorotic dwarf (MCD), caused by the maize chlorotic dwarf virus (MCDV), and maize dwarf mosaic (MDM), caused by the maize dwarf mosaic virus (MDMV). Discovery of MDM in the State dates back to the early 1960's, while MCD has been recognized since 1973. Both diseases probably occur throughout Alabama; however, they generally have been more prevalent and damaging in the northern two-thirds of the State.

Symptoms of the two diseases are similar in appearance and sometimes difficult to distinguish. Generally, affected plants are chlorotic or discolored and may be stunted. Leaves of MDM-diseased plants show an irregular, light and dark green mosaic or mottle; the initial symptom of MCD is a fine, chlorotic streaking over the smallest veins.

The causal viruses are spread by feeding activities of insects. MCDV is transmitted by certain leafhoppers, and MDMV is carried by some aphids. Both viruses have similar host ranges among a variety of wild and cultivated grasses. Johnsongrass is an important overseason or reservoir host for the viruses, and MCD and MDM incidence and damage usually are high in corn fields that are heavily infested with johnsongrass.

Use of resistant or tolerant corn hybrids and the control or avoidance of johnsongrass infested areas are the most practical controls for MCD and MDM. Commercial and experimental hybrids are evaluated yearly to identify resistant hybrids or promising sources of resistance

²Prepared by Robert T. Gudauskas, Professor and Acting Head of Plant Pathology.

to the diseases. Results of evaluations of some commercial hybrids during 1986 are summarized in this report.

Procedure

Viral disease ratings were made on entries in the corn hybrid test at the Black Belt Substation, Marion Junction, the Tennessee Valley Substation, Belle Mina, and the Upper Coastal Plain Substation, Winfield. Plants showing symptoms of MCD and/or MDM were counted, and data are reported as percent incidence of the diseases for each hybrid. Premature drying prevented disease ratings on some hybrids at the Tennessee Valley Substation.

Results

At the Black Belt Substation, incidence of MDM ranged from 0 to 18.9 percent among hybrids and averaged 2.5 percent for the entire test, table 9; incidence of MCD ranged from 0 to 32.3 percent and averaged 10.5 percent for the test. Jacques brand 8250 and P-A-G brand SX 16A showed no symptoms of either disease, and incidence of both diseases was less than 5 percent in at least 7 other hybrids.

At the Tennessee Valley Substation, incidence of MDM ranged from 0 to 8.6 percent among hybrids and averaged 1.9 percent for the entire test, table 10; incidence of MCD ranged from 0 to 5.8 percent and averaged 0.5 percent for the test. AgraTech brand GK 900, DeKalb brand DK 748, FFR brand 901, Jacques brand 8400, McCurdy brand 8150, Northrup King brand PX 9581, Paymaster brands 8990 and 9990, Pioneer brands 3147, 3187, and 3320, and Sunbelt brand 1860 showed no symptoms of either disease, and incidence of both diseases was less than 5 percent in at least 13 other hybrids.

At the Upper Coastal Plain Substation, incidence of MDM ranged from 3.2 to 49.1 percent among hybrids and averaged 25.1 percent for the entire test, table 11; incidence of MCD ranged from 0 to 19.6 percent and averaged 4.2 percent for the test. Hybrids showing lowest incidence of both diseases included Coker brand 16A, DeKalb brand DK 789, FFR brand 815, Northrup King brand PX 95, Paymaster brand 7990, and Pioneer brand 3165.

Hybrids showing relatively greater resistance or tolerance were apparent at all locations. Under conditions of higher or lower incidence of viral disease, hybrids would be expected to retain their relative ranking. When selecting a hybrid, viral disease reactions should be taken into account for areas where the diseases are known or suspected to occur, along with the considerations of yield and other characteristics given elsewhere in this report.

TABLE 9. INCIDENCE OF VIRAL DISEASES IN REGULAR CORN HYBRIDS TEST,
MARION JUNCTION, JULY 10, 1986

Brand name	Hybrid	Maize chlorotic dwarf	Maize dwarf mosaic
		Pct.	Pct.
AgraTech	GK 875	8.6	0
Asgrow/O's Gold	5509	6.7	2.2
Coker	8696	7.3	0
DeKalb	DK 689	5.1	0
DeKalb	DK 789	23.4	1.6
FFR	767	29.3	6.3
FFR	815	6.9	5.0
FFR	929W	2.9	1.9
FFR	955	11.7	0
Funk's	G-4733	19.9	0
Funk's	G-4734	5.1	0
Funk's	G-4779W	1.0	0
Funk's	G-4858	17.0	3.8
Funk's	G-4868	2.1	2.1
Funk's	6066X	4.2	8.1
Gold Medal	984	22.7	0
Gold Medal	3357	32.3	1.0
Jacques	8250	0	0
Jacques	8400	8.9	3.5
McCurdy	84AA	5.2	2.5
McCurdy	85-60	10.7	1.5
McCurdy	85-61	8.6	2.1
McNair	508	19.3	7.8
Northrup King	PX 79	12.5	0
Northrup King	PX 95	10.0	0
Northrup King	PX 715	11.3	0
P-A-G	SX 16A	0	0
Pioneer	3147	8.3	3.0
Pioneer	3187	1.0	1.0
Ring Around	1502	22.1	14.6
Seedtec	EX-918	10.0	1.4
Stauffer	8645	4.8	1.0
Sunbelt	1860	4.8	0
Sunbelt	1882	8.3	5.0
Zimmerman	Z 11 W	15.9	0.7
Zimmerman	Z 27 Y	11.0	18.9
Zimmerman	Z 35	18.6	1.7
Zimmerman	Z 54 W	3.5	0

TABLE 10. INCIDENCE OF VIRAL DISEASES IN REGULAR CORN HYBRIDS TEST,
BELLE MINA, JULY 31, 1986

Brand name	Hybrid	Maize chlorotic dwarf	Maize dwarf mosaic
		Pct.	Pct.
AgraTech	GK 850	--	--
AgraTech	GK 900	0	0
AgraTech	GK 925	3.8	7.5
Asgrow/O's Gold	2570	--	--
Asgrow/O's Gold	5509	0	2.2
Coker	19A	2.1	4.2
Coker	21	5.2	8.6
Coker	8905	0	2.0
DeKalb	DK 689	--	--
DeKalb	DK 748	0	0
DeKalb	DK 789	0	3.2
FFR	811	--	--
FFR	815	0	6.8
FFR	901	0	0
Funk's	G-4522	0	5.4
Funk's	G-4733	0	1.7
Funk's	G-4734	0	6.5
Funk's	G-4868	0	4.5
Jacques	8400	0	0
Jacques	8700	0	5.7
Jacques	JX 247	0	1.8
McCurdy	8150	0	0
McCurdy	8172	0	1.5
McCurdy	84AA	--	--
Northrup King	PX 95	0	1.6
Northrup King	PX 9581	0	0
Paymaster	7990	0	1.9
Paymaster	8990	0	0
Paymaster	9990	0	0
Pioneer	3055	1.5	6.1
Pioneer	3147	0	0
Pioneer	3165	0	2.1
Pioneer	3187	0	0
Pioneer	3320	0	0
Ring Around	1502	--	--
Stauffer	S 7759	5.8	1.9
Sunbelt	1802	--	--
Sunbelt	1827	0	1.9
Sunbelt	1860	0	0
Zimmerman	Z 27 Y	0	1.6

TABLE 11. INCIDENCE OF VIRAL DISEASES IN REGULAR CORN HYBRIDS TEST,
WINFIELD, AUGUST 1, 1986

Brand name	Hybrid	Maize chlorotic dwarf	Maize dwarf mosaic
		<u>Pct.</u>	<u>Pct.</u>
AgraTech	GK 850	0	40.9
AgraTech	GK 900	13.0	21.5
AgraTech	GK 925	6.7	34.6
Asgrow/O's Gold	2570	0	42.6
Asgrow/O's Gold	5509	0	42.6
Coker	19A	0	5.2
Coker	21	19.5	32.3
Coker	8905	0	20.3
DeKalb	DK 689	0	24.6
DeKalb	DK 748	0	42.6
DeKalb	DK 789	5.8	9.5
FFR	811	0	13.8
FFR	815	0	9.0
FFR	901	19.6	26.1
Funk's	G-4522	0	26.8
Funk's	G-4733	5.4	26.1
Funk's	G-4734	0	21.2
Funk's	G-4868	3.3	16.5
Jacques	8400	18.7	28.8
Jacques	8700	10.9	43.5
Jacques	JX 247	14.3	39.7
McCurdy	8150	9.5	21.0
McCurdy	8172	6.9	33.0
McCurdy	84AA	0	22.3
Northrup King	PX 95	0	7.5
Northrup King	PX 9581	0	35.2
Paymaster	7990	1.8	3.2
Paymaster	8990	2.1	32.6
Paymaster	9990	5.7	35.0
Pioneer	3055	1.8	14.3
Pioneer	3147	0	12.6
Pioneer	3165	0	6.6
Pioneer	3187	0	12.5
Pioneer	3320	6.8	29.4
Ring Around	1502	0	32.7
Stauffer	7759	9.1	24.9
Sunbelt	1802	0	26.5
Sunbelt	1827	1.8	22.0
Sunbelt	1860	0	16.9
Zimmerman	Z 27 Y	4.8	49.1

TABLE 12. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, HEADLAND, ALABAMA^{1/} 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AY _a			LOGGED STALKS, AY _a			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MIDSILK	TEST
	1984-86	1985-86	1986	1984-86	1985-86	1986	MO _a -DA _a	WEIGHT
	BU _a	BU _a	BU _a	PCI _a	PCI _a	PCI _a		LB./BU _a
PIONEER 3165	154	147	113	1.7	2.0	1.0	6-4	54.3
ASGROW/O'S GOLD 5509	150	147	137	.3	0	0	6-1	57.1
PIONEER 3147	145	136	116	4.0	3.0	4.0	6-5	53.2
JACQUES JX 247	142	140	120	1.7	2.0	4.0	6-2	57.3
PIONEER 3320	142	132	110	.7	0.5	1.0	5-31	57.1
MCCURDY 8172	140	130	102	2.0	3.0	5.0	6-5	57.4
NORTHRUP KING PX 95	139	137	112	1.7	1.5	2.0	6-5	57.0
MCCURDY 84AA	138	129	95	.3	0.5	0	6-4	56.0
NORTHRUP KING PX 95B1	137	130	117	1.7	1.5	3.0	6-4	57.1
ASGROW/O'S GOLD 2570	136	129	104	1.7	2.0	4.0	5-30	56.1
MCCURDY 8150	133	131	100	0	0	0	6-7	56.5
FUNK'S RING AROUND 1502	132	120	86	2.0	3.0	5.0	5-30	55.7
JACQUES 8400	124	113	92	.7	1.0	2.0	6-4	56.7
STAUFFER S 7759	123	116	91	1.7	1.5	2.0	5-30	56.5
FFR 811	119	114	85	1.0	1.5	3.0	6-2	55.0
ZIMMERMAN Z 27 Y	-	147	137	-	1.0	0	6-7	57.3
AGRATECH GK 850	-	135	118	-	1.0	1.0	5-30	56.2
AGRATECH GK 900	-	135	110	-	2.0	1.0	6-2	59.1
FUNKS G-4614	-	130	93	-	1.0	1.0	6-4	55.6
DEKALB DK 748	-	-	136	-	-	0	6-2	56.0
SUNBELT 1827	-	-	132	-	-	2.0	6-2	56.7
PIONEER 3055	-	-	130	-	-	1.0	6-4	56.1
JACQUES 8700	-	-	128	-	-	0	6-2	56.4
COKER 21	-	-	122	-	-	2.0	5-30	57.3
PAYMASTER 9990	-	-	121	-	-	1.0	6-3	57.1
FUNKS G-4733	-	-	118	-	-	0	6-5	58.1
SUNBELT 1802	-	-	111	-	-	1.0	6-2	57.2
DEKALB DK 789	-	-	110	-	-	2.0	6-4	57.1
PIONEER 3187	-	-	105	-	-	0	6-2	55.4
SUNBELT 1882	-	-	105	-	-	1.0	6-4	55.6
P-A-G SX 383	-	-	102	-	-	2.0	6-4	58.1
PAYMASTER 8951	-	-	102	-	-	1.0	6-2	56.7
PAYMASTER 7990	-	-	102	-	-	1.0	6-2	54.2
COKER 8905	-	-	101	-	-	0	6-4	55.3
DEKALB DK 689	-	-	99	-	-	1.0	6-2	56.1
FFR 815	-	-	87	-	-	3.0	6-2	55.5
TEST AVERAGE			109.5					
L.S.D. (.05)			28.3					
C.V. (%)			18.4					

^{1/}THE TEST RECEIVED APPROXIMATELY 16.5 INCHES OF IRRIGATION WATER IN 11 APPLICATIONS DURING THE MONTHS OF MAY, JUNE, AND JULY

TABLE 12. WHITE CORN HYBRID TEST. NORTHERN ALABAMA^{1/} 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LOGGED STALKS, AV.			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MIDSILK	TEST
	1984-86	1982-86		1984-86	1982-86			HEIGHT
	BU.	BU.	BU.	PCI.	PCI.	PCI.	MO./DA.	LB./BU.
COKER 833 W	121	114	66	13.3	19.5	37.0	7-4	54.8
ZIMMERMAN Z 60 W	117	112	68	14.0	20.5	34.0	7-2	55.5
FFR 929W	115	102	51	9.7	13.5	20.0	7-4	55.4
ASGROW/O'S GOLD RX 405W	114	106	60	18.7	27.5	48.0	7-3	55.0
FUNKS G-4779W	111	100	49	8.0	12.0	22.0	7-4	56.0
ZIMMERMAN Z 11 W	108	102	45	10.7	15.5	27.0	7-1	55.7
SEEDTEC H-2660W	103	85	41	12.7	18.0	30.0	7-3	55.7
ZIMMERMAN Z 14 W	-	105	54	-	22.0	39.0	7-3	54.8
DEKALB DK 77W	-	105	60	-	23.0	35.0	7-4	56.0
PIONEER 3165 +	-	-	78	-	-	5.0	7-3	57.2
ZIMMERMAN Z 54 W	-	-	76	-	-	43.0	7-2	54.4
PIONEER 3144W	-	-	75	-	-	30.0	7-2	55.7
FUNKS 6044W	-	-	75	-	-	43.0	7-4	56.7
JACQUES W-210	-	-	73	-	-	47.0	7-1	55.1
AGRATECH GK EXP. 5921W	-	-	70	-	-	38.0	7-2	54.6
PAYMASTER 9400 W	-	-	68	-	-	47.0	7-3	56.4
FUNKS 6054W	-	-	58	-	-	23.0	7-1	56.3
JACQUES W-310	-	-	54	-	-	44.0	7-1	56.8
TEST AVERAGE			62.2					
L.S.D. (.05)			15.2					
C.V. (%)			17.2					

^{1/}CROSSVILLE.
 + YELLOW CORN CHECK HYBRID.

TABLE 14. WHITE CORN HYBRID TEST, CENTRAL ALABAMA^{1/} 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MIDSILK	TEST
	1984-86	1985-86		1984-86	1985-86			HEIGHT
	BU _a	BU _a	BU _a	PCI _a	PCI _a	PCI _a	HD _a /DA _a	LB _a /BU _a
ASGROW/O'S GOLD RX 405W	94	92	40	6.0	9.0	18.0	6-11	-
ZIMMERMAN Z 60 W	86	82	25	3.0	4.5	9.0	6-8	-
COKER 833 W	83	79	33	3.3	5.0	9.0	6-7	-
FFR 929W	78	68	25	4.0	6.0	11.0	6-10	-
FUNKS G-4779W	75	69	29	.7	1.0	2.0	6-10	-
SEEDTEC H-2660W	67	64	23	4.3	5.5	10.0	6-10	-
ZIMMERMAN Z 11 W	66	60	18	2.0	3.0	6.0	6-10	-
ZIMMERMAN Z 14 W	-	92	38	-	2.0	3.0	6-7	-
DEKALB DK 77W	-	80	32	-	.5	0	6-10	-
PIONEER 3144W	-	-	44	-	-	1.0	6-8	-
FUNKS 6044W	-	-	43	-	-	0	6-10	-
PIONEER 3165 +	-	-	43	-	-	3.0	6-7	-
JACQUES W-210	-	-	43	-	-	1.0	6-7	-
PAYMASTER 9400 W	-	-	42	-	-	6.0	6-9	-
AGRATECH GK EXP. 5921W	-	-	34	-	-	6.0	6-7	-
FUNKS 6054W	-	-	31	-	-	2.0	6-10	-
ZIMMERMAN Z 54 W	-	-	30	-	-	4.0	6-9	-
JACQUES W-310	-	-	29	-	-	5.0	6-7	-
TEST AVERAGE			33.2					
L.S.D. (.05)			15.0					
C.V. (%)			31.9					

^{1/}E.V. SMITH RESEARCH CENTER, SHORTER.
+ YELLOW CORN CHECK HYBRID.

TABLE 15. WHITE CORN HYBRID TEST, SOUTHERN ALABAMA^{1,2/} 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MID SILK	TEST
	1984-86	1985-86		1984-86	1985-86		MO./DA.	WEIGHT
	BU.	BU.	BU.	PCI.	PCI.	PCI.		LB./BU.
ZIMMERMAN Z 60 W	126	125	104	3.3	4.0	5.0	6-5	52.4
COKER 833 W	122	115	101	1.0	1.0	1.0	6-8	54.5
FFR 929W	114	102	70	3.3	3.0	4.0	6-10	54.3
ZIMMERMAN Z 11 W	110	89	73	3.3	5.0	9.0	6-7	54.9
FUNKS G-4779W	110	96	65	4.7	5.5	9.0	6-8	54.2
ASGROW/O'S GOLD RX 405W	109	93	60	6.0	7.0	12.0	6-8	55.6
SEEDTEC H-2660W	93	76	59	5.0	6.0	9.0	6-8	55.2
ZIMMERMAN Z 14 W	-	125	100	-	4.0	7.0	6-7	55.2
DEKALB DK 77W	-	120	104	-	4.0	5.0	6-8	54.8
FUNKS 6044W	-	-	97	-	-	4.0	6-10	55.4
PIONEER 3144W	-	-	94	-	-	7.0	6-8	52.6
ZIMMERMAN Z 54 W	-	-	93	-	-	2.0	6-8	53.7
PAYMASTER 9400 W	-	-	89	-	-	4.0	6-8	56.7
PIONEER 3165 +	-	-	87	-	-	1.0	6-7	52.3
JACQUES W-310	-	-	87	-	-	6.0	6-8	56.3
JACQUES W-210	-	-	86	-	-	9.0	6-8	55.9
FUNKS 6054W	-	-	83	-	-	6.0	6-7	54.6
AGRATECH GK EXP. 5921W	-	-	81	-	-	4.0	6-5	53.1
TEST AVERAGE			84.9					
L.S.D. (.05)			23.5					
C.V. (%)			19.5					

^{1/} HEADLAND.

^{2/} THE TEST RECEIVED APPROXIMATELY 16.5 INCHES OF IRRIGATION WATER IN 11 APPLICATIONS DURING THE MONTHS OF MAY, JUNE, AND JULY.

+ YELLOW CORN CHECK HYBRID.

TABLE 16. EARLY CORN HYBRID TEST, NORTHERN ALABAMA¹/1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AY _a			LODGED STALKS, AY _a			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MID SILK	TEST
	1984-86	1985-86		1984-86	1985-86			WEIGHT
	BU _a	BU _a	BU _a	PCI _a	PCI _a	PCI _a	MO _a /DA _a	LB _a /BU _a
NORTHROP KING PX 79	136	124	90	2.7	4.0	6.0	6-19	53.1
FUNKS G-4614	136	133	101	6.0	8.5	12.0	6-20	57.9
ASGROW/O'S GOLD 2570	135	126	103	6.3	9.0	14.0	6-18	54.3
JACQUES 7900	132	126	107	9.0	13.0	21.0	6-18	54.4
AGRATECH GK 750	132	127	102	2.7	3.5	4.0	6-18	56.6
FUNKS G-4522	130	125	103	5.3	8.0	12.0	6-17	55.3
ASGROW/O'S GOLD RX 777	130	124	94	2.7	4.0	4.0	6-17	55.5
COKER 8575	122	122	105	2.7	4.0	5.0	6-19	54.2
FUNK'S RING AROUND 1404	119	117	104	2.3	3.0	3.0	6-17	54.3
ZIMMERMAN Z 27 Y	-	144	112	-	13.0	21.0	6-24	54.4
COKER 8601	-	135	109	-	7.0	12.0	6-20	54.7
FFR 747	-	131	107	-	4.5	6.0	6-18	56.2
MCCURDY 7372	-	127	107	-	10.0	13.0	6-17	56.5
SEEDTEC H-2601	-	124	114	-	6.0	6.0	6-17	52.9
ASGROW/O'S GOLD 3344	-	118	97	-	6.0	5.0	6-18	51.9
JACQUES 7820	-	118	98	-	3.5	3.0	6-16	55.6
MCCURDY 7800	-	-	108	-	-	11.0	6-20	57.0
GOLD MEDAL 842	-	-	104	-	-	9.0	6-18	57.0
TERRA TR 3303	-	-	104	-	-	7.0	6-18	54.9
PIONEER 3389	-	-	101	-	-	2.0	6-16	57.5
DEKALB DK 656	-	-	101	-	-	7.0	6-18	55.1
STAUFFER 7751	-	-	101	-	-	5.0	6-17	55.9
GOLD MEDAL 580	-	-	100	-	-	6.0	6-17	55.0
MCCURDY 7277	-	-	99	-	-	8.0	6-16	55.2
SEEDTEC 7625	-	-	99	-	-	8.0	6-18	56.6
ASGROW/O'S GOLD 5509	-	-	98	-	-	13.0	6-20	55.2
DEKALB T1100	-	-	96	-	-	8.0	6-18	54.5
ZIMMERMAN Z 35	-	-	96	-	-	20.0	6-20	53.9
TEST AVERAGE			102.1					
L.S.D. (1.05)			11.0					
C.V. (%)			7.7					

¹CROSSVILLE.

TABLE 17. EARLY CORN HYBRID TEST, CENTRAL ALABAMA^{1/} 1984-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LUGGED STALKS, AV.			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MIDSILK	TEST
	1984-86	1985-86		1984-86	1985-86			WEIGHT
	BU _a	BU _a	BU _a	PCI _a	PCI _a	PCI _a	MO _a /QA _a	LB _a /BU _a
FUNKS G-4614	98	102	33	.3	.5	1.0	6-12	-
FUNK'S RING AROUND 1404	88	89	28	1.0	1.5	3.0	6-12	-
NORTHROP KING PX 79	87	85	25	1.7	2.5	4.0	6-9	-
COKER 8575	86	86	25	.7	1.0	2.0	6-11	-
ASGROW/O'S GOLD RX 777	86	84	28	1.0	1.5	3.0	6-13	-
ASGROW/O'S GOLD 2510	85	88	41	1.0	1.5	3.0	6-10	-
AGRATECH GK 750	84	82	31	2.0	3.0	6.0	6-12	-
JACQUES 7900	76	75	24	.7	1.0	2.0	6-11	-
MCCURDY 7372	-	101	36	-	3.0	5.0	6-9	-
ZIMMERMAN Z 27 Y	-	98	33	-	1.5	2.0	6-9	-
COKER 8601	-	96	28	-	3.0	5.0	6-10	-
FFR 747	-	85	32	-	3.0	6.0	6-12	-
SEEDTEC H-2601	-	85	33	-	1.0	1.0	6-12	-
JACQUES 7820	-	81	32	-	1.0	2.0	6-11	-
FUNKS G-4522	-	-	39	-	-	4.0	6-12	-
ZIMMERMAN Z 35	-	-	38	-	-	5.0	6-9	-
DEKALB DK 656	-	-	34	-	-	1.0	6-10	-
MCCURDY 7800	-	-	34	-	-	5.0	6-10	-
MCCURDY 7277	-	-	34	-	-	3.0	6-9	-
PIONEER 3389	-	-	33	-	-	2.0	6-10	-
SEEDTEC 7625	-	-	32	-	-	3.0	6-12	-
ASGROW/O'S GOLD 3344	-	-	31	-	-	4.0	6-12	-
STAUFFER 7751	-	-	29	-	-	3.0	6-12	-
DEKALB T1100	-	-	27	-	-	1.0	6-12	-
ASGROW/O'S GOLD 5509	-	-	26	-	-	4.0	6-9	-
TERRA TR 3303	-	-	20	-	-	2.0	6-10	-
TEST AVERAGE			30.9					
L.S.D. (.05)			10.3					
C.V. (%)			23.6					

^{1/}E.V. SMITH RESEARCH CENTER, SHORTER.

TABLE 10. EARLY CORN HYBRID TEST. SOUTHERN ALABAMA, 1985-86

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LOGGED STALKS, AV.			1986	
	3-YR.	2-YR.	1986	3-YR.	2-YR.	1986	MIDSTALK	TEST
	1985-86	1985-86		1985-86	1985-86			
	BU.	BU.	BU.	PCI.	PCI.	PCI.	MO./QA.	LB./BU.
FUNKS G-4522	130	134	153	.3	.5	1.0	5-22	57.6
ASGRIM/O'S GOLD 2570	126	128	128	2.7	3.5	7.0	5-21	56.7
COKER 8575	125	139	159	0	0	0	5-23	55.6
ASGRIM/O'S GOLD RX 777	124	128	134	1.3	.5	1.0	5-22	58.1
FUNKS G-4614	121	116	117	.3	0	0	5-24	56.9
JACQUES 7900	119	124	128	.3	.5	1.0	5-22	55.9
AGRATECH GK 750	118	123	130	0	0	0	5-22	58.1
FUNK'S KING AROUND 1404	117	126	139	0	0	0	5-22	56.0
ZIMMERMAN 2 27 Y	-	141	144	-	.5	1.0	5-24	56.6
SEEDTEC 11-2601	-	136	138	-	0	0	5-22	55.2
JACQUES 7820	-	131	134	-	0	0	5-22	57.7
COKER 8601	-	130	131	-	0	0	5-23	55.2
MCCURDY 7372	-	130	134	-	0	0	5-21	56.2
FFR 747	-	129	130	-	0	0	5-22	58.3
ASGRIM/O'S GOLD 3344	-	111	113	-	.5	1.0	5-22	54.8
ASGRIM/O'S GOLD 5509	-	-	159	-	-	0	5-25	57.7
MCCURDY 7800	-	-	148	-	-	1.0	5-24	57.7
PIONEER 3389	-	-	142	-	-	0	5-21	56.9
DEKALB DK 456	-	-	141	-	-	0	5-22	56.5
DEKALB T1100	-	-	140	-	-	0	5-23	56.9
STAUFFER 7751	-	-	138	-	-	1.0	5-22	58.5
TERRA TR 3303	-	-	134	-	-	5.0	5-22	57.3
MCCURDY 7277	-	-	132	-	-	0	5-22	57.1
NORTHRUP KING PX 79	-	-	129	-	-	0	5-22	56.1
SEEDTEC 7625	-	-	123	-	-	0	5-23	56.7
ZIMMERMAN 2 35	-	-	111	-	-	0	5-24	55.9
TEST AVERAGE			134.8					
L.S.D. (1.0%)			25.0					
C.V. (%)			13.1					

1/FAIRHOPE

REPORT OF PRELIMINARY TESTS
 TABLE 19. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT CROSSVILLE
 IN NORTHERN ALABAMA, 1996

BRAND NAME-HYBRID	AV. YIELD	LODGED	MIDSILK	TEST
	PER ACRE	STALKS		WEIGHT
	BU.	PCT.	MO.-DA.	LB./BU.
FUNKS 6066X	97	29.0	6-27	56.5
SEEDTEC 7750	96	14.0	6-27	55.6
GOLD MEDAL 954	95	17.0	6-26	55.9
MCCURDY 7711	95	27.0	6-26	53.5
NORTHROP KING PX 9584	94	24.0	6-27	54.1
GOLD MEDAL 1070	93	16.0	6-29	55.7
ASGRUM/O'S GOLD RX 860	92	11.0	6-25	57.1
DEKALB OK 711	91	29.0	6-28	55.7
ZIMMERMAN Z 45	91	15.0	6-27	55.2
NORTHROP KING PX 9540	90	20.0	6-25	54.9
GOLDEN HARVEST H-2675	89	30.0	6-25	54.2
ZIMMERMAN Z 35	89	24.0	6-29	53.7
DELTA PINE 5750	88	20.0	6-28	56.2
PAYMASTER 9427	87	25.0	6-30	55.0
FFR 810	86	15.0	5-27	56.8
PAYMASTER 8951	85	27.0	6-28	55.2
TERRA TR 1170	85	21.0	6-28	56.5
STAUFFER 8505	85	28.0	6-30	55.3
NORTHROP KING PX 9646	85	18.0	6-28	57.3
COKER 8625	85	18.0	6-26	56.1
ASGRUM/O'S GOLD RX 798	84	13.0	6-28	56.0
JACQUES 8350	84	19.0	6-26	53.0
PIONEER 3110	84	14.0	6-29	56.2
MCCURDY 7676	84	29.0	6-26	53.4
P-A-G SX 16A	83	18.0	6-27	55.3
JACQUES 8250	83	21.0	6-30	55.1
P-A-G SX 352	83	23.0	6-25	53.2
TERRA TR 3303	83	17.0	6-26	53.8
STAUFFER 8645	83	18.0	6-28	56.0
FUNKS G-4635	83	29.0	6-29	54.1
FUNKS G-4765	81	11.0	6-28	55.4
MCCURDY 84-50	81	20.0	6-27	52.4
NORTHROP KING PX 9685	81	23.0	6-29	56.0
CARGILL 971	81	30.0	6-27	53.8
COKER 8680	81	5.0	6-26	56.2
AGRATECH GK 755	80	27.0	6-26	53.1
SUNBELT EXP. 5613	80	24.0	6-27	53.5
SUNBELT EXP. 5615	79	30.0	6-28	56.3
COKER 3020	79	29.0	6-27	54.6
PIONEER 3358	78	16.0	6-26	55.3
P-A-G SX 185059	78	26.0	6-29	56.9
CARGILL 980	76	25.0	6-28	55.9
COKER 8693	75	19.0	6-28	55.6
FFR 767	75	15.0	6-26	55.2
SEEDTEC H-2686	74	20.0	7-2	54.8
TERRA TR 4405	72	34.0	6-29	55.6
PAYMASTER X 212599	71	26.0	6-24	55.6
SUNBELT 6225	70	15.0	7-2	53.2
P-A-G SX 379	70	26.0	6-29	55.2
TEST AVERAGE	83.4			
L.S.D. (.05)	16.3			
C.V. (%)	11.5			

REPORT OF PRELIMINARY TESTS
 TABLE 20. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT TALLASSEE
 IN CENTRAL ALABAMA, 1986

BRAND NAME-HYBRID	AV. YIELD	LODGED	MIDSILK	TEST
	PER ACRE	STALKS		WEIGHT
	BU _a	PCT _a	MO _a -DA _a	LB _a /BU _a
MCCURDY 85-60	110	7.0	-	55.4
CARGILL 980	103	9.0	-	56.3
SEEDTEC 7750	102	5.0	-	57.9
NORTHROP KING PX 9646	101	2.0	-	59.0
ASGROW/O'S GOLD RX 860	97	2.0	-	56.7
ZIMMERMAN Z 35	97	7.0	-	55.8
P-A-G SX 16A	97	1.0	-	55.6
DEKALB DK 711	97	3.0	-	57.3
NORTHROP KING PX 9685	92	2.0	-	58.4
SUNBELT 6225	92	3.0	-	55.2
NORTHROP KING PX 9584	92	2.0	-	56.7
GOLD MEDAL 954	92	2.0	-	56.3
FUNKS G-4734	91	3.0	-	58.8
SEEDTEC H-2775A	91	16.0	-	57.7
FUNKS 6055X	89	1.0	-	59.4
GOLD MEDAL 1070	88	5.0	-	57.6
DELTAPINE 5750	88	5.0	-	57.7
MCCURDY 85-61	88	6.0	-	54.4
P-A-G SX 185059	87	3.0	-	58.0
COKER 8680	86	1.0	-	59.7
STAUFFER 8505	85	2.0	-	57.0
ASGROW/O'S GOLD RX 798	84	1.0	-	56.4
FUNKS 6066X	83	4.0	-	57.3
FFR 810	83	1.0	-	57.3
CARGILL 971	82	4.0	-	54.0
COKER 8693	82	2.0	-	56.9
FFR 901	81	2.0	-	58.6
FFR 767	81	7.0	-	57.0
P-A-G SX 352	81	2.0	-	55.4
JACQUES 8350	81	6.0	-	56.3
COKER 3020	80	4.0	-	56.1
PAYMASTER 9427	79	6.0	-	57.0
PAYMASTER X 212599	79	1.0	-	57.6
P-A-G SX 379	78	7.0	-	55.8
SUNBELT EXP. 5615	78	4.0	-	57.8
ZIMMERMAN Z 45	78	3.0	-	55.8
PIONEER 3110	76	4.0	-	58.3
SUNBELT EXP. 5613	76	5.0	-	55.8
PIONEER 3358	75	2.0	-	56.4
STAUFFER 8645	74	8.0	-	55.1
TERRA TR 4405	74	7.0	-	55.9
NORTHROP KING PX 9340	74	2.0	-	56.7
COKER 8625	73	0	-	57.0
AGRATECH GK 925	72	7.0	-	55.8
GOLDEN HARVEST H-2675	72	6.0	-	54.7
TERRA TR 3303	70	3.0	-	55.1
AGRATECH GK 755	67	3.0	-	55.1
JACQUES 8250	67	11.0	-	55.5
TERRA TR 1170	66	5.0	-	56.6
TEST AVERAGE	83.8			
L.S.D. (.05)	16.3			
C.V. (%)	25.1			

REPORT OF PRELIMINARY TESTS
TABLE 21. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT FAIRHOPE
IN SOUTHERN ALABAMA, 1986

BRAND NAME-HYBRID	AV. YIELD	LOGGED	MIDSILK	TEST
	PER ACRE	STALKS		WEIGHT
	BU.	PCT.	MO.-DA.	LB./BU.
SUNBELT 6225	169	0	5-25	56.7
AGRATECH GK 925	164	1.0	5-30	57.0
SUNBELT 1860	159	2.0	5-31	55.7
DEKALB DK 711	159	2.0	5-28	57.1
STAUFFER 8505	157	0	5-30	57.3
TERRA TR 1170	156	2.0	5-28	58.0
FUNKS 6055X	156	1.0	5-28	59.2
P-A-G SX 379	154	2.0	5-29	57.4
SUNBELT 1876	153	4.0	6-5	55.0
MCCURDY 8170	152	1.0	5-30	56.7
GOLD MEDAL 1070	152	0	5-29	58.3
FFR 910	152	0	5-29	57.7
CARGILL 980	151	1.0	5-29	58.1
TERRA TR 4405	150	2.0	5-30	56.8
FUNKS G-4635	150	0	5-29	57.6
FFR 901	150	0	5-29	57.3
ASGROW/O'S GOLD RX 798	149	0	5-29	59.1
SEEDTEC H-2686	149	1.0	5-30	57.4
DELTAPINE 5750	149	0	5-29	58.0
PAYMASTER 8990	148	1.0	5-29	58.3
SEEDTEC 7750	148	0	5-28	57.7
FUNKS 6066X	147	0	5-28	58.3
NORTHROP KING PX 9685	146	1.0	5-29	57.7
PAYMASTER 9427	146	2.0	5-29	56.3
ASGROW/O'S GOLD RX 860	145	0	5-27	58.2
PIONEER 3110	145	0	5-29	57.4
COKER 8625	144	0	5-28	58.5
ZIMMERMAN Z 35	144	0	5-29	56.6
TERRA TR 3303	143	1.0	5-28	57.8
COKER 3020	143	0	5-27	58.0
CARGILL 971	142	0	5-28	57.1
COKER 8693	142	0	5-28	55.6
COKER 8680	142	1.0	5-28	58.0
JACQUES 8250	142	0	5-30	57.4
P-A-G SX 185059	142	0	5-29	57.6
P-A-G SX 16A	141	0	5-28	57.0
JACQUES 8350	140	1.0	5-28	57.4
STAUFFER 8645	140	0	5-29	57.1
NORTHROP KING PX 9646	138	2.0	5-31	57.1
FUNKS G-4868	138	1.0	6-2	54.8
SEEDTEC H-2775A	137	1.0	5-28	57.5
GOLD MEDAL 954	136	0	5-28	58.0
ZIMMERMAN Z 45	136	0	5-29	56.9
SUNBELT EXP. 5613	135	0	5-28	57.3
NORTHROP KING PX 9540	135	0	5-28	58.4
NORTHROP KING PX 9584	134	0	5-29	55.4
P-A-G SX 352	134	1.0	5-28	56.7
AGRATECH GK 755	132	0	5-29	57.0
PIONEER 3358	131	0	5-28	55.2
MCCURDY 82-21	130	4.0	5-31	57.2
PAYMASTER X 212599	128	0	5-27	58.0
SUNBELT EXP. 5615	120	0	5-28	58.4
FFR 767	116	1.0	5-28	57.1
TEST AVERAGE	144.1			
L.S.D. (.05)	16.3			
C.V. (%)	8.8			

SOURCES OF 1986 CORN HYBRID TEST SEED

<u>Seed Company</u>	<u>Brand</u>	<u>Seed Company</u>	<u>Brand</u>
AgraTech Seeds, Inc. P.O. Box 644 Ashburn, GA 31714	GK	Jacques Seed Co. Prescott, WI 54021	Jacques
Asgrow Seed Co. 7000 Portage Rd. Kalamazoo, MI 49001	Asgrow/ O's Gold	McCurdy Seed Co. Fremont, IA 52561	McCurdy
Cargill Box 5645 Minneapolis, MN 55440	Cargill	Northrup King Co. P.O. Box 151 Fremont, IA 52561	Northrup Ki
Coker's Pedigreed Seed Co. P.O. Box 340 Hartsville, SC 29550	Coker	PAG Seeds P.O. Box 9493 Minneapolis, MN 55440	PAG
Columbiana Seed Co. Eldred, IL 62027	Golden Harvest	Paymaster Seeds P.O. Box 9493 Minneapolis, MN 55440	Paymaster
DeKalb-Pfizer Genetics 3100 Sycamore Road DeKalb, IL 60115	DeKalb	Pioneer Hi-Bred Int. 1000 W. Jefferson St. Tipton, IN 46072	Pioneer
Delta and Pine Land Co. Scott, MS 38772	Deltapine	Stauffer Seeds, Inc. 975 South Durkin Dr. Springfield, IL 62704	Stauffer
FFR Cooperative 4112 E. State Rd. 225 W. Lafayette, IN 47906	FFR	Sunbelt Hybrids, Inc. Wetumpka, AL 36092	Sunbelt
Funk Seeds Int. P.O. Box 2911 Bloomington, IL 61702	Funk's G Ring Around	Terra Seed Co. P.O. Box 10121 Lubbock, TX 79408	Terra
Gold Medal Hybrids P.O. Box 120 Louisville, KY 40201	Gold Medal	Zimmerman Hybrids, Inc. 5147 W. Franklin Rd. Evansville, IN 47712	Zimmerman

ACCEPTABLE HYBRIDS FOR 1987

All of the acceptable hybrids are not equal in performance. It is suggested that this report be carefully studied before choosing a hybrid. For relative maturity information, use the days to mid silk data in preceding tables. Unless otherwise noted, all acceptable hybrids have been tested at least 3 years in the regular variety tests and are listed in descending order of 3-year average yield.

NORTHERN ALABAMA

Yellow hybrids		White hybrids		Early hybrids	
Brand name	Hybrid	Brand name	Hybrid	Brand Name	Hybrid
Pioneer	3165	Coker	833W	Northrup king	PX 79
Pioneer	3147	Zimmerman	Z 60 W	Funk's	G-4614
Pioneer	3320	FFR	929W	Asgrow/O's Gold	2570
Pioneer	3187	Asgrow/O's Gold	RX 405W	Jacques	7900
Northrup King	PX 95	Funk's	G-4779W	AgraTech	GK 750
Jacques	8400	Zimmerman	Z 11 W	Funk's	G-4522
Asgrow/O's Gold	2570			Asgrow/O's Gold	RX 777
McCurdy	8150			†Zimmerman	Z 27 Y
Jacques	JX 247			†Coker	8601
Funk's	G-4733			†FFR	747
Paymaster	8990				
Funk's	G-4522				
Northrup King	PX 9581				
Funk's	RA 1502				
Asgrow/O's Gold	5509				
McCurdy	84AA				
Coker	21				
Coker	19A				
†Zimmerman	Z 27 Y				
†Pioneer	3055				
†McCurdy	8172				

†Recommended based on exceptional 2-year average.

ACCEPTABLE HYBRIDS FOR 1987 (continued)

CENTRAL ALABAMA

Yellow hybrids		White hybrids		Early hybrids		Black Belt	
Brand name	Hybrid	Brand name	Hybrid	Brand name	Hybrid	Brand name	Hybrid
Pioneer	3320	Asgrow/O's Gold	RX 405W	Funk's	G-4614	Sunbelt	1860
Pioneer	3165	Zimmerman	Z 60 W	Funk's	RA 1404	Pioneer	3147
Jacques	8400	Coker	833W	Northrup King	PX 79	Funk's	G-4858
Pioneer	3147	FFR	929W	Coker	8575	Asgrow/O's Gold	5509
Asgrow/O's Gold	2570	Funk's	G-4779W	Asgrow/O's Gold	RX 777	McCurdy	84AA
McCurdy	8172	†Zimmerman	Z 14 W	Asgrow/O's Gold	2570	FFR	955
McCurdy	8150			AgraTech	GK 750	Jacques	8400
Northrup King	PX 9581			†AgraTech	GK 850	Northrup King	PX 95
Asgrow/O's Gold	5590			†Northrup King	PX 9581	*Funk's	G-4733
*Funk's	G-4733			†McCurdy	7372	†Zimmerman	Z 27 Y
*Jacques	JX 247			†Zimmerman	Z 27 Y	†DeKalb	DK 789
*McCurdy	84AA			†Coker	8601	†DeKalb	DK 689
*Coker	21						
†Sunbelt	1876						

* If present trends continue, this hybrid will be removed from the acceptable list next year in the category indicated.

† Recommended based on exceptional 2-year average.

ACCEPTABLE HYBRIDS FOR 1987 (continued)

SOUTHERN ALABAMA

Yellow hybrids		White hybrids		Early hybrids	
Brand name	Hybrid	Brand name	Hybrid	Brand name	Hybrid
Pioneer	3165	Zimmerman	Z 60 W	Funk's	G-4522
McCurdy	8172	Coker	833W	Asgrow/O's Gold	2570
Pioneer	3320	FFR	929W	Coker	8575
Pioneer	3147	Zimmerman	Z 11 W	Asgrow/O's Gold	RX 777
McCurdy	8150	Funk's	G-4779W	Funk's	G-4614
Asgrow/O's Gold	6509	Asgrow/O's Gold	RX 405W	Jacques	7900
Pioneer	3187	†Zimmerman	Z 14 W	AgraTech	GK 750
Coker	21	†Dekalb	DK 77W	Funk's	RA 1404
*Jacques	JX 247			†Zimmerman	Z 27 Y
*Northrup King	PX 95			†SeedTec	II-2601
†Pioneer	3055				
†Funk's	G-4614				
†Asgrow/O's Gold	2570				

* If present trends continue, this hybrid will be removed from the acceptable list next year in the category indicated.

† Recommended based on exceptional 2-year average.