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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, 1988

D.L. Thurlow and W.C. Johnson¹

INTRODUCTION

Corn hybrids are evaluated annually by the Alabama Agricultural Experiment Station in the Regular Corn Hybrid Test and the Preliminary Corn Hybrid 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. Corn hybrids were evaluated for maturity and shuck quality at Tallassee using all 149 of the 1988 entries in the Alabama test; the number of days to silking and shuck quality ratings are reported in table 19.

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.

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

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

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 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 variability.

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 (page 17). Virus infection data from the test at Marion Junction are reported this year, table 9.

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.

The irrigation test at Headland had 12.5 inches of water applied in 10 applications during May and June to supplement the 3.8 inches of rainfall. The early corn test at Fairhope was not harvested because of only 0.4 inch of rainfall from April 20 through June 2. This was during the tasseling and silking of the hybrids in the early test. The corn yields in north Alabama

locations were also poor due to an extended drought in May, June, and July. The test at Winfield was not harvested and the Belle Mina and Crossville tests were lower than normal.

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 pages 35-37.

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, H.E. Burgess

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 - R.R. Duffield

Plant Breeding Unit, Tallassee - S.P. Nightengale

SOUTHERN ALABAMA

Lower Coastal Plain Substation - J. Little

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, B. Gamble

Appreciation is also expressed to Mien-Huei Tzeng and Mrs. Sally Bagwell, Research Data Analysis, for the computation, summarization, and analysis of the data in this report.

TABLE 1. LOCATIONS AND CULTURAL PRACTICES FOR THE 1988 CORN HYBRID TESTS

Location	Planting date	Nitrogen ^{1/} rate	Plant population	Date harvested	Herbicides used
<u>Northern Alabama</u>					
Tennessee Valley Substation (Belle Mina)	April 7	136	20,000	September 14	Atrazine
Sand Mountain Substation (Crossville)					
Regular test	April 7	150	20,000	September 22	Atrazine + Princep
Preliminary test	April 22	150	20,000	September 26	Atrazine + Dual
White corn test	April 7	170	20,000	October 19	Atrazine + Princep
Early corn test	March 29	154	20,000	September 8	Atrazine + Princep
Upper Coastal Plain Substation (Winfield)	April 8	150	20,000	Not harvested	Atrazine
<u>Central Alabama</u>					
E.V. Smith Research Center (Shorter)					
Early corn test	April 24	150	20,000	August 18	Atrazine + Dual
White corn test	April 24	150	20,000	August 18	Atrazine + Dual
Plant Breeding Unit (Tallassee)	March 30	160	20,000	September 1&2	Atrazine + Dual
Prattville Experiment Field (Prattville)	March 28	120	20,000	August 28	Atrazine + Dual
Black Belt Substation (Marion Junction)	March 24	120	20,000	August 16	Atrazine
<u>Southern Alabama</u>					
Brewton Experiment Field (Brewton)	March 24	139	20,000	September 8&14	Atrazine
Monroeville Experiment Field (Monroeville)	March 24	120	20,000	September 28	Atrazine + Dual
Lower Coastal Plain Substation (Camden)	April 15	100	20,000	September 8	Dual + Vernam
Wiregrass Substation (Headland)					
Regular test (unirrigated)	March 24	128	20,000	August 30	Atrazine + Lasso
Regular test (irrigated)	March 24	228	25,000	August 31	Atrazine + Lasso
White corn test (irrigated)	March 24	228	25,000	September 1	Atrazine + Lasso
Gulf Coast Substation (Fairhope)					
Regular test	March 21	154	20,000	August 26	Atrazine + Dual
Preliminary test	March 21	154	20,000	August 26	Atrazine + Dual
Early corn test	February 26	120	20,000	Not harvested	Atrazine + Dual

^{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 ALABAMA^{1/} 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.		LODGED STALKS, AV.	
	3-YR.	2-YR.	3-YR.	2-YR.
	1986-88	1987-88	1986-88	1987-88
	<u>BU.</u>	<u>BU.</u>	<u>PCT.</u>	<u>PCT.</u>
DEKALB DK 689	95	81	1.4	0.8
PIONEER 3165	91	78	1.7	1.3
MCCURDY 8172	89	79	3.6	1.4
ZIMMERMAN Z 27	88	74	3.2	1.2
DEKALB DK 789	88	74	1.7	0.6
PIONEER 3147	87	74	2.8	1.8
JACQUES 8400	86	76	4.2	3.1
PIONEER 3320	85	73	2.7	1.7
ASGROW/O'S GOLD 2570	85	77	5.1	2.8
AGRATECH GK 900	84	77	3.0	2.3
AGRATECH GK 850	83	74	3.2	2.2
FUNK'S G-4522	81	71	3.6	2.1
NEW NK PX 9581	81	75	4.8	2.3
CARGILL 8990	81	69	2.9	1.8
ASGROW/O'S GOLD 5509	80	72	4.3	3.0
NEW NK PX 95	80	70	4.3	2.8
FUNK'S G-4734	79	69	3.3	2.1
FUNK'S G-4868	79	68	1.9	1.2
SUNBELT 1802	78	73	3.1	1.8
COKER 21	78	71	3.8	1.9
SUNBELT 1827	75	69	3.8	2.3
DEKALB DK 711	-	80	-	1.6
FUNK'S G-4666	-	75	-	1.2
SEEDTEC ST-7750	-	74	-	1.6
DELTAPINE 5750	-	71	-	0.5
CARGILL 9427	-	70	-	1.5
ASGROW/O'S GOLD RX 860	-	64	-	0.5

^{1/}BELLE MINA AND CROSSVILLE.

TABLE 3 1988 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS
IN NORTHERN ALABAMA

BRAND NAME-HYBRID	BELLE MINA	CROSSVILLE	1988 REGIONAL AVERAGES					HUSK*
			YIELD	LODGED	TEST	MID-**	RATING	
			PER ACRE	STALKS	WEIGHT	SILK		
	<u>BU.</u>	<u>BU.</u>	<u>BU.</u>	<u>PCT.</u>	<u>LB./BU.</u>	<u>MO.-DA.</u>		
DEKALB DK 689	17	71	44	0.5	58.0	7-1	2	
DELTAPINE X9986	21	65	43	0	59.1	6-30	2	
MCCURDY 7777	22	63	43	0.5	56.7	6-28	3	
JACQUES 8250	19	66	42	3.0	56.6	6-29	3	
CRIST C-7118V	17	67	42	2.5	56.5	6-30	3	
MCCURDY 8172	15	68	42	0.5	60.2	7-3	2	
GARST 8180	11	72	41	2.5	57.9	6-29	3	
PIONEER 3147	24	58	41	1.5	54.9	7-3	3	
AGRATECH GK 900	17	64	40	2.0	58.0	6-29	3	
PIONEER 3055	18	60	39	0	57.3	6-30	3	
DEKALB DK 711	14	63	39	1.5	58.4	6-28	3	
PIONEER 3165	18	59	38	1.0	58.4	6-30	3	
DELTAPINE 5666	17	59	38	0.5	57.6	6-27	3	
ZIMMERMAN Z 27	12	63	37	1.0	57.0	7-2	3	
CRIST C-7115	13	62	37	1.5	57.3	6-28	3	
JACQUES 8400	16	57	37	2.5	59.4	6-29	3	
NEW NK PX 9581	16	58	37	2.0	56.8	6-27	3	
SUNBELT 1876	20	54	37	0.5	56.5	7-4	2	
PIONEER 3295	17	56	37	1.0	58.3	7-1	3	
PIONEER 3320	20	53	36	1.0	58.2	6-29	2	
JACQUES 8350	14	59	36	2.5	57.6	6-27	2	
AGRATECH GK 750	18	54	36	1.0	58.4	6-28	3	
SEEDTEC ST-7750	11	61	36	0.5	58.5	6-30	3	
ASGROW/O'S GOLD 5509	15	56	35	1.0	58.6	6-30	3	
SUMMIT TR 3303	11	60	35	1.0	56.7	6-27	3	
ASGROW/O'S GOLD 2570	9	62	35	2.5	56.8	6-28	2	
COKER 8696	14	57	35	2.0	58.1	6-27	3	
DELTAPINE 5750	9	62	35	0	57.5	6-29	3	
FUNK'S G-4666	11	58	35	1.0	58.0	6-30	3	
SUNBELT 1802	7	61	34	1.5	58.2	6-28	3	
AGRATECH GK 850	8	58	33	2.0	59.1	6-28	3	
COKER 21	11	54	32	1.5	57.5	6-29	3	
SUNBELT 1860	15	48	32	0.5	58.0	7-3	2	
PIONEER 3358	17	47	32	0	58.6	6-29	3	
FUNK'S G-4522	7	55	31	1.5	58.2	6-29	3	
FUNK'S G-4868	13	48	31	1.0	56.2	7-4	2	
DEKALB DK 789	12	49	31	0.5	56.3	6-30	3	
FUNK'S G-4543	9	52	30	0.5	57.7	6-28	3	
FUNK'S G-4743	10	51	30	0.5	59.0	7-1	2	
GARST 8116	10	50	30	0.5	58.5	6-29	3	
FUNK'S G-4734	6	54	30	0.5	58.2	6-30	2	
CARGILL 9427	6	54	30	1.0	57.4	6-30	3	
SUMMIT TR 4405	9	50	29	1.0	57.6	6-29	3	
NEW NK PX 95	11	47	29	0	55.6	7-1	3	
SUNBELT 1882	11	46	29	1.0	56.6	7-3	3	
SUNBELT 1827	4	45	25	1.0	57.2	7-1	2	
CARGILL 8990	7	39	23	1.5	57.2	6-30	3	
ASGROW/O'S GOLD RX 860	4	42	23	0	57.5	6-28	2	
TEST AVERAGE	13.1	56.5						
L. S. D. (.05)	11.1	11.3						
C. V. (%)	60.7	14.3						

*1= EXCELLENT, 5= VERY POOR

** MID-SILK DATA FROM CROSSVILLE ONLY.

TABLE 4. TWO- AND THREE-YEAR YIELD, AND LODGING AVERAGES FOR CENTRAL ALABAMA¹ 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.		LODGED STALKS, AV.	
	3-YR.	2-YR.	3-YR.	2-YR.
	1986-88	1987-88	1986-88	1987-88
	<u>BU.</u>	<u>BU.</u>	<u>PCT.</u>	<u>PCT.</u>
DEKALB DK 689	76	79	4.3	2.5
PIONEER 3165	76	80	2.3	0.8
ZIMMERMAN Z 27	75	79	3.2	1.0
PIONEER 3320	73	75	5.3	6.3
DEKALB DK 789	70	73	3.7	2.3
JACQUES 8400	69	69	4.0	4.8
MCCURDY 8172	69	70	3.2	2.5
ASGROW/O'S GOLD 2570	68	66	3.0	2.3
SUNBELT 1882	67	66	0.5	0.5
AGRATECH GK 900	67	70	3.7	2.3
PIONEER 3147	66	67	3.2	3.0
SUNBELT 1802	65	62	2.2	1.0
JACQUES 8700	65	65	4.8	1.8
COKER 21	65	68	3.7	3.0
SUNBELT 1827	65	64	3.0	1.8
NEW NK PX 9581	64	61	2.8	1.8
ASGROW/O'S GOLD 5509	64	63	4.7	4.0
SUNBELT 1876	64	70	3.0	1.5
AGRATECH GK 850	64	59	1.5	1.8
NEW NK PX 95	62	66	6.8	3.8
CARGILL 8990	55	51	3.7	1.5
MCCURDY 7777	-	75	-	1.0
FUNK'S G-4614	-	71	-	1.8
FUNK'S G-4666	-	64	-	0.8
SEEDTEC ST-7750	-	63	-	1.5
DELTAPINE 5750	-	62	-	0
SUMMIT TR 4405	-	57	-	3.3
ASGROW/O'S GOLD RX 860	-	52	-	1.0

¹/PRATTVILLE AND CAMDEN.

TABLE 5 1988 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS
IN CENTRAL ALABAMA

BRAND NAME-HYBRID	PRATTVILLE	CAMDEN	1988 REGIONAL AVERAGES				
			YIELD	LODGED	TEST	MID-**	HUSK*
			PER ACRE	STALKS	WEIGHT	SILK	
	BU.	BU.	BU.	PCT	LB./BU.	MO.-DA.	RATING
MCCURDY 7777	61	67	64	1.0	57.4	6-15	3
PIONEER 3320	66	58	62	2.0	56.2	6-13	2
NEW NK MCNAIR 508	37	80	59	2.0	56.3	6-25	1
ZIMMERMAN Z 27	58	58	58	1.5	54.6	6-16	4
PIONEER 3055	48	62	55	2.0	56.8	6-16	2
COKER 8696	56	51	53	2.5	56.4	6-14	2
AGRATECH GK 900	57	49	53	1.5	57.6	6-14	3
GARST 8180	51	55	53	0.5	56.7	6-14	2
JACQUES 8250	62	43	53	3.0	54.0	6-14	3
JACQUES 8400	58	46	52	4.0	56.7	6-13	4
MCCURDY 8172	46	58	52	3.5	58.4	6-16	2
FUNK'S G-4614	53	51	52	1.5	56.9	6-14	2
GARST 8116	58	46	52	0	56.8	6-14	2
FUNK'S G-4666	53	50	52	0	56.8	6-14	2
PIONEER 3165	38	65	52	1.0	52.9	6-16	2
JACQUES 8350	60	42	51	2.5	52.6	6-12	3
DEKALB DK 689	48	54	51	1.5	54.9	6-15	2
PIONEER 3358	54	48	51	0.5	55.9	6-12	3
FUNK'S G-4743	48	53	50	0.5	57.1	6-17	2
DELTAPINE 5750	59	42	50	0	56.7	6-13	2
DELTAPINE X9986	45	55	50	3.5	57.0	6-16	2
SEEDTEC ST-7750	53	46	50	0.5	56.6	6-14	3
DELTAPINE 5666	65	33	49	1.0	55.4	6-11	3
SUNBELT 1876	30	67	48	1.0	53.7	6-25	1
DEKALB DK 789	43	52	47	3.0	52.6	6-14	3
PIONEER 3147	39	53	46	4.0	50.6	6-18	2
ASGROW/O'S GOLD 2570	57	35	46	1.0	54.1	6-13	3
SUNBELT 1860	37	54	46	1.0	55.0	6-17	2
COKER 21	58	33	45	2.0	52.7	6-14	3
NEW NK PX 9581	53	35	44	2.0	55.4	6-12	3
SUNBELT 1802	52	36	44	1.0	56.0	6-12	3
PIONEER 3295	56	32	44	2.5	55.3	6-13	3
NEW NK PX 95	31	56	44	0.5	53.7	6-14	2
AGRATECH GK 850	50	35	42	1.5	56.2	6-12	3
SUNBELT 1882	30	52	41	0.5	54.2	6-18	2
ASGROW/O'S GOLD 5509	47	33	40	3.5	52.6	6-14	3
CARGILL 9427	54	25	39	1.0	53.9	6-14	3
SUMMIT TR 3303	48	29	39	0.5	51.5	6-12	4
JACQUES 8700	49	26	38	1.0	52.7	6-15	3
AGRATECH GK 750	54	21	37	0.5	54.7	6-11	3
FUNK'S G-4868	33	40	37	0	50.8	6-19	3
SUMMIT TR 1405	48	24	36	2.5	50.7	6-14	4
ASGROW/O'S GOLD RX 860	41	30	35	0.5	54.3	6-12	3
SUNBELT 1827	46	20	33	1.0	53.3	6-15	3
CARGILL 8990	41	11	26	1.0	56.6	6-14	3
TEST AVERAGE	49.5	44.6					
L.S.D (.05)	9.6	14.0					
C.V. (%)	13.9	22.4					

*1= EXCELLENT; 5= VERY POOR.
** MID-SILK DATA FROM PRATTVILLE ONLY.

TABLE 6. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR SOUTHERN ALABAMA¹/ 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.		LODGED STALKS, AV.	
	3-YR.	2-YR.	3-YR.	2-YR.
	1986-88	1987-88	1986-88	1987-88
	<u>BU.</u>	<u>BU.</u>	<u>PCT.</u>	<u>PCT.</u>
MCCURDY 8172	101	104	1.9	1.5
PIONEER 3165	91	89	4.6	6.0
DEKALB DK 689	91	92	2.7	3.1
DEKALB DK 789	89	88	2.4	2.1
ASGROW/O'S GOLD 5509	88	84	2.9	2.0
PIONEER 3147	87	85	3.4	3.6
SUNBELT 1882	86	86	1.5	1.6
SUNBELT 1827	85	81	2.1	1.8
ASGROW/O'S GOLD 2570	85	80	3.2	3.5
NEW NK PX 9581	83	83	3.6	2.8
COKER 21	83	80	3.2	3.0
JACQUES 8700	82	78	2.3	1.9
AGRATECH GK 900	82	80	3.8	4.5
ZIMMERMAN Z 27	81	78	1.8	1.8
JACQUES 8400	80	76	3.8	4.8
FUNK'S G-4614	80	76	3.0	3.1
PIONEER 3320	80	80	3.7	4.0
SUNBELT 1802	79	80	2.9	1.4
NEW NK PX 95	78	79	2.8	3.3
AGRATECH GK 850	76	74	2.5	2.0
SUNBELT 1860	-	92	-	1.6
SEEDTEC ST-7750	-	89	-	0.9
FUNK'S G-4666	-	88	-	0.5
DEKALB DK 711	-	86	-	3.5
DELTAPINE 5750	-	85	-	0.6
CARGILL 9427	-	77	-	2.5
ASGROW/O'S GOLD RX 860	-	76	-	0.5
SUMMIT TR 4405	-	75	-	3.4
SUMMIT TR 3303	-	74	-	2.0
CARGILL 8990	-	73	-	3.4

¹/FAIRHOPE, BREWTON, MONROEVILLE, AND HEADLAND.

TABLE 7. 1988 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN SOUTHERN ALABAMA

BRAND NAME-HYBRID	1988 REGIONAL AVERAGES				YIELD PER ACRE	LODGED STALKS	TEST WEIGHT	MID- SILK	HUSK*
	FAIRHOPE	BREWTON	MONROEVILLE	HEADLAND					
	BU	BU	BU	BU					
MCCURDY 8172	119	74	75	101	92	2.8	57.3	6-14	2
DEKALB DK 689	103	64	81	99	87	6.0	55.9	6-13	2
DELTAPINE X9986	103	75	73	93	86	3.0	57.5	6-14	2
MCCURDY 7777	99	70	84	87	85	5.0	55.3	6-12	3
SEEDTEC ST-7750	107	62	83	88	85	1.8	56.8	6-11	2
FUNK'S G-4666	103	73	79	81	84	0.8	56.7	6-11	2
DELTAPINE 5750	107	73	72	83	84	1.3	56.8	6-11	2
PIONEER 3147	82	62	74	96	78	7.0	54.2	6-15	2
DEKALB DK 789	94	67	72	78	78	4.0	55.3	6-12	3
GARST 8180	97	68	71	75	78	3.0	58.5	6-12	2
NEW NK PX 9581	108	58	72	70	77	5.3	55.2	6-9	2
NEW NK MCNAIR 508	86	67	77	74	76	6.0	57.0	6-19	2
GARST 8116	84	62	74	79	75	2.8	56.1	6-11	2
SUNBELT 1802	100	68	67	64	74	2.5	56.2	6-9	2
SUNBELT 1860	91	74	58	75	74	2.3	57.0	6-16	2
DEKALB DK 711	102	60	66	69	74	6.8	56.6	6-10	2
SUNBELT 1882	92	51	68	82	73	3.0	56.6	6-17	2
PIONEER 3165	82	68	58	82	73	11.8	55.7	6-12	3
ZIMMERMAN Z 27	111	58	49	72	72	3.5	55.9	6-12	3
ASGROW/O'S GOLD 2570	100	55	65	69	72	7.0	55.1	6-11	2
AGRATECH GK 750	105	61	61	60	72	2.3	56.3	6-8	2
FUNK'S G-4743	89	59	82	55	71	3.3	57.8	6-12	2
SUMMIT TR 3303	85	73	58	66	71	3.5	55.1	6-8	3
PIONEER 3055	97	60	60	65	70	5.8	56.1	6-14	2
JACQUES 8250	82	57	65	76	70	2.0	56.2	6-13	3
ASGROW/O'S GOLD 5509	93	59	58	69	70	3.3	56.6	6-11	3
SUNBELT 1876	90	61	65	62	70	10.5	56.6	6-19	2
CARGILL 9427	96	58	56	69	69	4.0	55.6	6-12	3
FUNK'S G-4614	84	54	79	60	69	5.8	57.5	6-10	2
COKER 8690	87	69	66	55	69	2.0	54.5	6-12	3
DELTAPINE 5666	99	50	71	54	68	3.3	57.0	6-9	3
AGRATECH GK 850	98	56	67	52	68	3.8	56.2	6-10	2
ASGROW/O'S GOLD RX 860	84	53	69	65	68	0.8	56.5	6-9	2
PIONEER 3320	71	63	72	63	67	6.3	55.7	6-10	2
CRIST C-7125	96	39	59	70	66	4.0	56.0	6-11	3
AGRATECH GK 900	89	46	50	78	66	8.5	56.8	6-11	3
JACQUES 8400	76	50	56	77	64	8.5	57.0	6-12	3
SUMMIT TR 4405	86	46	59	66	64	6.3	56.1	6-12	3
NEW NK PX 95	90	39	65	62	64	6.0	55.3	6-13	3
JACQUES 8700	102	44	46	63	64	3.3	56.3	6-12	3
COKER 8696	90	50	54	60	63	5.5	55.8	6-10	2
COKER 21	86	55	56	53	62	6.0	56.5	6-11	3
SUNBELT 1827	81	49	50	63	61	2.5	56.0	6-12	3
CARGILL 8990	96	50	49	46	60	6.3	55.9	6-11	2
PIONEER 3295	70	47	43	64	56	3.3	54.7	6-11	3
PIONEER 3358	67	36	35	49	47	2.0	54.7	6-10	3
TEST AVERAGE	92.5	58.4	64.4	70.2					
L. S. D. (.05)	23.2	16.8	20.2	21.4					
C. V. (%)	18.0	20.6	22.4	21.8					

*1= EXCELLENT, 5= VERY POOR

TABLE B. BLACK BELT CORN HYBRID/VIRUS TEST^{1/} 1985-86 & 1988

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			MIDSILK	1988		HUSK*
	3-YR.	2-YR.	1988	3-YR.	2-YR.	1988		TEST	WEIGHT	
	1985-86&88	1986&88	1988	1985-86&88	1986&88	1988		LB /BU.	RATING	
	BU.	BU.	BU.	PCT.	PCT.	PCT.	MO. -DA.			
DEKALB DK 689	89	73	73	2.7	3.5	1.0	-	53.7	2	
ZIMMERMAN Z 27	83	60	45	1.7	2.0	1.0	-	51.0	5	
DEKALB DK 789	81	55	44	4.0	5.5	1.0	-	51.7	4	
SUNBELT 1860	77	56	42	2.7	3.0	0	-	54.4	2	
JACQUES 8400	72	49	37	2.7	3.5	1.0	-	57.9	5	
PIONEER 3147	71	46	27	5.0	6.0	0	-	51.5	3	
NEW NK PX 95	71	44	32	4.3	6.0	1.0	-	52.7	3	
PIONEER 3187	64	54	30	2.7	4.0	1.0	-	53.1	3	
FFR 929W	60	40	28	1.7	2.0	0	-	52.5	3	
MCCURDY 7777	-	70	63	-	2.5	1.0	-	54.7	4	
ZIMMERMAN Z 54 W	-	55	31	-	6.5	0	-	51.4	2	
NEW NK S 8645	-	54	42	-	1.5	0	-	54.2	2	
FUNK'S G-4666	-	49	46	-	1.5	1.0	-	54.4	3	
CARGILL SX 16A	-	49	49	-	2.5	2.0	-	50.9	5	
COKER 8696	-	41	44	-	5.0	4.0	-	52.8	3	
FUNK'S G-4868	-	33	18	-	2.0	0	-	50.3	4	
NEW NK PX 79	-	33	23	-	1.5	0	-	52.6	5	
SUNBELT 1882	-	31	23	-	4.0	0	-	53.7	2	
NEW NK MCNAIR 508	-	25	18	-	6.0	5.0	-	49.4	3	
JACQUES 9220	-	-	55	-	-	1.0	-	55.3	4	
ZIMMERMAN Z 16 W	-	-	50	-	-	1.0	-	53.5	3	
FUNK'S G-4743	-	-	47	-	-	0	-	55.8	2	
TERRA TR 402E	-	-	47	-	-	1.0	-	56.9	2	
SEEDTEC ST-7750	-	-	41	-	-	2.0	-	53.5	3	
JACQUES 8280	-	-	40	-	-	1.0	-	55.1	5	
AGRATECH GK 900	-	-	40	-	-	1.0	-	58.1	5	
AGRATECH EXP 8901	-	-	39	-	-	2.0	-	52.0	5	
SOLAR SO 6040	-	-	39	-	-	1.0	-	57.0	3	
CRIST C-8119	-	-	37	-	-	0	-	54.4	3	
CRIST C-7125	-	-	36	-	-	0	-	54.2	4	
FUNK'S 4665	-	-	35	-	-	0	-	54.5	3	
ZIMMERMAN Z 14 W	-	-	35	-	-	0	-	52.0	3	
ZIMMERMAN Z 60 W	-	-	32	-	-	1.0	-	51.8	3	
AGRIPRO AP 793	-	-	31	-	-	0	-	51.6	3	
FFR 16049	-	-	31	-	-	1.0	-	50.2	4	
CRIST C-7118V	-	-	29	-	-	1.0	-	51.4	5	
DEKALB DK 649	-	-	28	-	-	0	-	53.1	2	
FUNK'S 8018 X	-	-	25	-	-	0	-	51.7	3	
TEST AVERAGE			37.6							
L. S. D. (.05)			17.4							
C. V. (%)			33.1							

^{1/}MARION JUNCTION. SEE TABLE 9 FOR VIRUS DISEASE REACTIONS.
*1= EXCELLENT; 5= VERY POOR.

VIRAL DISEASE REACTIONS OF SOME HYBRIDS IN 1988²

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 control for MCD and MDM. Commercial and experimental hybrids are evaluated yearly to identify resistant hybrids or promising sources of resistance to the diseases. Results of evaluations of some commercial hybrids during 1988 are summarized in this report.

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

Procedure

Viral disease ratings were made on entries in the corn hybrid test at the Black Belt Substation, Marion Junction, 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.

Results

In the test of 38 hybrids at the Black Belt Substation, incidence of MCD ranged from 0 to 9.1 percent among hybrids and averaged 1.3 percent for the test; incidence of MDM ranged from 0 to 7.7 percent and averaged 0.8 percent for the test, table 9. Twenty-two hybrids showed no symptoms of either disease. Levels of both diseases appeared to be much higher in a test of 48 hybrids at the Upper Coastal Plain Substation. However, drought effects confounded symptom expression by the plants and precluded accurate estimates of viral disease incidence at this location.

Hybrids showing relatively greater resistance or tolerance were apparent at both 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 22, 1988

Brand name	Hybrid	Maize chlorotic dwarf	Maize dwarf mosaic
		Pct.	Pct.
AgraTech	GK 900	0	0
AgraTech	EXP 8901	4.0	0
AgriPro	AP 793	.8	4.4
Cargill	SX 16A	0	0
Coker	8696	0	0
Crist	C-7118V	1.7	.9
Crist	C-7125	6.7	.8
Crist	C-8119	2.2	3.4
Dekalb	DK 649	0	0
Dekalb	DK 689	0	0
Dekalb	DK 789	0	0
FRR	929W	0	0
FRR	16049	.8	.8
Funk's	4665	3.6	1.8
Funk's	8018X	0	3.4
Funk's	G-4666	4.3	3.1
Funk's	G-4743	0	0
Funk's	G-4868	4.3	.9
Jacques	8280	0	0
Jacques	8400	0	0
Jacques	9220	.9	0
McCurdy	7777	0	0
New NK	McNair 508	0	0
New NK	PX 79	0	0
New NK	PX 95	0	0
New NK	S 8645	5.5	2.4
Pioneer	3147	0	0
Pioneer	3187	9.1	0
SeedTec	ST-7750	0	0
Solar	SO 6040	0	0
Sunbelt	1860	3.8	.8
Sunbelt	1882	0	0
Terra	TR 402E	0	0
Zimmerman	Z 14 W	0	0
Zimmerman	Z 16 W	1.9	0
Zimmerman	Z 27	0	0
Zimmerman	Z 54 W	0	0
Zimmerman	Z 60 W	.8	1.8

TABLE 10. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, HEADLAND, ALABAMA^{1/} 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			1988		
	3-YR.	2-YR.	1988	3-YR.	2-YR.	1988	MIDSILK	TEST	MUSK*
	1986-88	1987-88		1986-88	1987-88			WEIGHT	
	BU.	BU.	BU.	PCT.	PCT.	PCT.	MO. -DA.	LB./BU.	RATING
ASGROW/O'S GOLD 3509	144	148	172	1.3	2.0	2.0	6-20	59.0	2
JACQUES 8700	140	147	173	1.0	1.5	1.0	6-20	59.3	2
DEKALB DK 689	140	160	184	1.7	2.0	1.0	6-15	58.0	2
COKER 21	139	148	178	1.7	1.5	2.0	6-17	58.1	3
SUNBELT 1827	139	143	152	1.3	1.0	1.0	6-20	58.7	3
MCCURDY 8172	137	155	163	2.3	1.0	2.0	6-20	59.7	3
PIONEER 3145	134	145	162	1.3	1.5	2.0	6-20	58.6	3
ZIMMERMAN Z 27	132	129	138	1.3	2.0	1.0	6-20	56.8	3
PIONEER 3147	129	135	139	3.3	3.0	4.0	6-20	56.0	3
NEW NK PX 95	128	137	142	3.0	3.5	3.0	6-15	57.2	3
ASGROW/O'S GOLD 2570	127	138	143	1.7	0.5	0	6-23	56.9	2
DEKALB DK 789	126	134	138	1.7	1.5	2.0	6-20	58.2	2
SUNBELT 1802	125	132	148	1.3	1.5	2.0	6-20	57.1	2
SUNBELT 1882	124	134	143	1.0	1.0	2.0	6-19	58.5	2
NEW NK PX 9581	123	126	141	3.0	3.0	3.0	6-20	57.9	2
AGRATECH GK 900	122	128	132	1.3	1.5	3.0	6-20	59.2	3
PIONEER 3320	120	125	141	2.0	2.5	1.0	6-20	57.3	2
FUNK'S G-4614	120	133	151	1.7	2.0	1.0	6-15	59.0	2
AGRATECH GK 850	117	116	112	1.0	1.0	2.0	6-17	57.0	3
JACQUES 8400	113	124	124	2.3	2.5	4.0	6-20	59.5	3
SUNBELT 1860	-	150	156	-	1.5	1.0	6-23	58.6	2
CARGILL 9427	-	137	138	-	1.5	3.0	6-20	57.7	3
DEKALB DK 711	-	135	130	-	4.0	4.0	6-21	58.9	2
FUNK'S G-4666	-	131	151	-	2.5	1.0	6-15	59.4	2
SUMMIT TR 4405	-	131	148	-	1.0	1.0	6-20	58.6	3
ASGROW/O'S GOLD RX 860	-	130	144	-	0	0	6-20	58.9	2
SEEDTEC ST-7750	-	128	140	-	2.0	1.0	6-15	58.9	3
DELTAPINE 5750	-	127	145	-	0.5	1.0	6-20	58.8	2
CARGILL 8990	-	125	123	-	3.0	3.0	6-20	59.1	2
SUMMIT TR 3303	-	119	143	-	2.0	2.0	6-15	56.7	3
GARST 8180	-	-	176	-	-	1.0	6-15	58.8	2
PIONEER 3055	-	-	175	-	-	2.0	6-23	58.6	2
NEW NK MCNAIR 508	-	-	172	-	-	2.0	6-23	59.7	2
DELTAPINE X9986	-	-	166	-	-	1.0	6-23	59.1	2
CRIST C-7125	-	-	153	-	-	1.0	6-20	59.1	2
SUNBELT 1876	-	-	146	-	-	3.0	6-23	57.5	2
MCCURDY 7777	-	-	144	-	-	5.0	6-15	58.0	3
COKER 8690	-	-	142	-	-	2.0	6-15	57.2	2
GARST 8116	-	-	141	-	-	1.0	6-20	58.9	2
FUNK'S G-4743	-	-	138	-	-	2.0	6-15	59.6	2
PIONEER 3295	-	-	130	-	-	0	6-20	56.6	2
AGRATECH GK 750	-	-	128	-	-	1.0	6-15	58.2	3
JACQUES 8250	-	-	123	-	-	2.0	6-20	57.2	2
DELTAPINE 5666	-	-	121	-	-	1.0	6-20	57.5	3
COKER 8696	-	-	115	-	-	2.0	6-20	57.7	3
PIONEER 3358	-	-	114	-	-	2.0	6-20	55.9	3
TEST AVERAGE			145.1						
L. S. D. (.05)			26.1						
C. V. (%)			12.9						

^{1/}THE TEST RECEIVED APPROXIMATELY 12.5 INCHES OF IRRIGATION WATER IN 10 APPLICATIONS DURING THE MONTHS OF MAY AND JUNE.

*1= EXCELLENT; 5= VERY POOR.

TABLE 11. WHITE CORN HYBRID TEST, NORTHERN ALABAMA^{1/}1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			1988		
	3-YR.	2-YR.	1988	3-YR.	2-YR.	1988	MIDSILK	TEST	HUSK*
	1986-88	1987-88		1986-88	1987-88			WEIGHT	
	BU.	BU.	BU.	PCT.	PCT.	PCT.	MO./DA.	LB./BU.	RATING
PIONEER 3165 +	89	94	56	2.7	1.5	1.0	7-5	59.1	
ZIMMERMAN Z 54 W	86	90	55	15.7	2.0	2.0	7-4	57.3	3
PIONEER 3144W	82	85	49	10.7	1.0	1.0	7-6	58.1	3
JACQUES W-210	82	86	53	17.0	2.0	3.0	7-3	58.5	3
AGRATECH 921W	78	82	44	13.3	1.0	1.0	7-7	56.5	3
ZIMMERMAN Z 60 W	77	82	47	13.3	3.0	2.0	7-4	56.2	3
ZIMMERMAN Z 14 W	75	86	54	15.3	3.5	5.0	7-6	58.5	3
COKER 833 W	74	79	56	13.0	1.0	1.0	7-2	59.0	3
DEKALB DK 77W	73	79	56	13.3	2.5	3.0	7-5	60.1	3
FFR 929W	66	74	27	7.7	1.5	1.0	7-6	57.6	3
ZIMMERMAN Z 16 W	-	93	60	-	3.5	5.0	7-1	59.7	3
CARGILL 9400W	-	87	50	-	2.5	3.0	7-4	60.6	3
ZIMMERMAN Z 17 W	-	-	57	-	-	1.0	7-5	57.8	3
FUNK'S 6058 W	-	-	54	-	-	3.0	7-2	59.3	3
ASGROW/D'S GOLD RX 956W	-	-	51	-	-	2.0	7-4	60.3	3
FUNK'S G-4614	-	-	51	-	-	1.0	7-3	59.8	3
DEKALB EXP 775 W	-	-	50	-	-	1.0	7-1	59.3	3
AGRATECH 917 W	-	-	46	-	-	1.0	7-5	56.5	3
PIONEER 3283 W	-	-	46	-	-	1.0	7-1	58.2	3
FUNK'S 6043 W	-	-	45	-	-	1.0	7-3	59.6	3
SUMMIT TR 1185	-	-	44	-	-	1.0	7-5	59.9	3
DEKALB EXP 765 W	-	-	37	-	-	1.0	7-2	59.2	3
SOLAR SD 6080 W	-	-	28	-	-	0	7-7	58.4	3
TEST AVERAGE			48.3						
L. S. D. (.05)			12.1						
C. V. (%)			17.7						

^{1/}CROSSVILLE.
 +YELLOW CORN CHECK HYBRID.
 *1= EXCELLENT; 5= VERY POOR.

TABLE 12 WHITE CORN HYBRID TEST, CENTRAL ALABAMA^{1/} 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			1988	
	3-YR.	2-YR.	1988	3-YR.	2-YR.	1988	MIDSILK	TEST
	1986-88	1987-88		1986-88	1987-88		MO./DA.	WEIGHT
	BU.	BU.	BU.	PCT.	PCT.	PCT.		LB./BU.
PIONEER 3165 +	76	92	61	3.3	3.5	0	6-27	57.9
PIONEER 3144W	64	74	43	5.3	7.5	0	6-28	59.1
AGRATECH 921W	61	74	38	4.0	3.0	1.0	6-30	58.0
ZIMMERMAN Z 14 W	58	69	42	6.0	7.5	3.0	6-29	59.2
ZIMMERMAN Z 54 W	57	71	44	5.7	6.5	1.0	6-29	56.5
DEKALB DK 77W	57	69	47	7.0	10.5	1.0	6-30	58.9
ZIMMERMAN Z 60 W	55	70	35	6.7	5.5	1.0	6-29	57.8
JACQUES W-210	54	60	27	3.3	4.5	1.0	6-28	60.1
COKER 833 W	54	64	24	8.0	7.5	1.0	7-1	58.1
FFR 929W	48	60	34	9.3	8.5	1.0	6-30	58.7
ZIMMERMAN Z 16 W	-	75	47	-	3.5	2.0	6-28	59.0
CARGILL 9400W	-	57	19	-	3.5	0	6-30	60.0
FUNK'S G-4614	-	-	47	-	-	0	6-25	60.7
ZIMMERMAN Z 17 W	-	-	41	-	-	2.0	6-28	59.9
DEKALB EXP 775 W	-	-	37	-	-	2.0	6-28	60.9
AGRATECH 917 W	-	-	33	-	-	1.0	6-28	58.2
PIONEER 3283 W	-	-	33	-	-	0	6-29	57.7
SOLAR SO 6080 W	-	-	30	-	-	2.0	7-2	57.3
SUMMIT TR 1185	-	-	29	-	-	1.0	6-28	58.8
FUNK'S 6058 W	-	-	26	-	-	1.0	6-30	58.2
DEKALB EXP 765 W	-	-	22	-	-	1.0	6-30	60.2
FUNK'S 6043 W	-	-	18	-	-	0	6-27	59.2
ASGROW/O'S GOLD RX 956W	-	-	12	-	-	0	6-29	58.0
TEST AVERAGE			34.2					
L. S. D. (.05)			14.0					
C. V. (%)			28.9					

^{1/}SHORTER.

+YELLOW CORN CHECK HYBRID.

TABLE 13. WHITE CORN HYBRID TEST, SOUTHERN ALABAMA^{1/} 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			MIDSILK	1988 TEST WEIGHT	HUSK* RATING
	3-YR.	2-YR.	1988	3-YR.	2-YR.	1988			
	1986-88	1987-88		1986-88	1987-88				
	BU.	BU.	BU.	PCT.	PCT.	PCT.	MO./DA.	LB./BU.	
PIONEER 3165 +	130	152	153	0.7	0.5	0	6-20	58.5	
ZIMMERMAN Z 54 W	128	146	139	2.3	2.5	1.0	6-20	57.9	3
ZIMMERMAN Z 14 W	127	141	150	4.0	2.5	4.0	6-20	59.1	2
DEKALB DK 77W	126	137	144	2.3	1.0	1.0	6-20	58.7	2
PIONEER 3144W	122	135	127	2.7	0.5	1.0	6-23	57.4	3
COKER 833 W	119	127	131	1.3	1.5	1.0	6-20	56.4	2
ZIMMERMAN Z 60 W	118	125	128	2.7	1.5	1.0	6-20	57.2	2
JACQUES W-210	116	132	137	5.0	3.0	1.0	6-20	59.9	2
FFR 929W	113	135	140	3.3	3.0	2.0	6-23	57.6	2
AGRATECH 921W	103	114	116	2.7	2.0	1.0	6-15	57.1	2
ZIMMERMAN Z 16 W	-	139	133	-	1.0	1.0	6-20	59.0	2
CARGILL 9400W	-	131	132	-	1.0	1.0	6-20	60.1	2
DEKALB EXP 775 W	-	-	153	-	-	1.0	6-23	59.8	3
FUNK'S 6058 W	-	-	137	-	-	1.0	6-18	60.3	3
ASGROW/O'S GOLD RX 956W	-	-	137	-	-	2.0	6-23	59.2	2
SUMMIT TR 1185	-	-	137	-	-	3.0	6-18	61.1	3
AGRATECH 917 W	-	-	137	-	-	4.0	6-23	57.5	3
FUNK'S G-4614	-	-	137	-	-	0	6-20	59.3	2
ZIMMERMAN Z 17 W	-	-	135	-	-	1.0	6-20	58.9	3
SOLAR SO 6080 W	-	-	132	-	-	1.0	6-23	59.0	3
DEKALB EXP 765 W	-	-	122	-	-	1.0	6-23	60.1	3
PIONEER 3283 W	-	-	117	-	-	1.0	6-18	57.5	3
FUNK'S 6043 W	-	-	117	-	-	1.0	6-18	59.8	2
TEST AVERAGE			134.1						
L. S. D. (.05)			19.6						
C. V. (%)			10.4						

^{1/} HEADLAND. THE TEST RECEIVED APPROXIMATELY 12.5 INCHES OF IRRIGATION WATER IN 10 APPLICATIONS DURING THE MONTHS OF MAY AND JUNE.

+YELLOW CORN CHECK HYBRID.

*1= EXCELLENT; 3= VERY POOR.

TABLE 14. EARLY CORN HYBRID TEST, NORTHERN ALABAMA^{1/} 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			MIDSILK	1988	
	3-YR.	2-YR.	1988	3-YR.	2-YR.	1988		TEST	HUSK*
	1986-88	1987-88		1986-88	1987-88		WEIGHT	RATING	
	BU.	BU.	BU.	PCT.	PCT.	PCT.	MO. /DA.	LB. /BU.	
SEEDTEC ST-2601	110	109	56	2.7	1.0	1.0	6-28	53.3	3
MCCURDY 7372	109	110	62	4.3	0	0	6-29	56.1	3
MCCURDY 7800	108	108	69	4.0	0.5	1.0	6-30	53.9	3
ASGROW/O'S GOLD 2570	107	108	56	5.7	1.5	2.0	6-29	54.7	2
ZIMMERMAN Z 27	106	102	55	7.7	1.0	1.0	7-2	54.1	3
COKER 8601	106	104	58	4.7	1.0	0	6-28	54.7	2
JACQUES 7900	103	101	53	7.0	0	0	6-26	55.8	3
FUNK'S G-4614	102	103	48	4.0	0	0	6-29	55.0	2
AGRATECH GK 750	102	102	53	1.3	0	0	6-30	54.9	3
DEKALB DK 656	102	102	54	2.7	0.5	0	6-28	55.7	3
JACQUES 7820	101	102	59	1.3	0.5	0	6-27	57.8	2
NEW NK S 7751	100	100	52	1.7	0	0	6-28	56.4	3
FUNK'S G-4522	100	98	52	4.7	1.0	1.0	6-27	57.4	2
FFR 747C	99	95	43	2.0	0	0	6-28	56.5	3
NEW NK PX 79	94	96	45	2.0	0	0	6-30	54.8	3
SUNBELT 5613	-	111	60	-	2.0	1.0	6-29	55.5	2
SUNBELT 1827	-	106	51	-	0.5	0	7-1	53.6	2
SUNBELT 1802	-	102	56	-	0.5	0	6-28	54.9	2
FUNK'S G-4543	-	99	48	-	0.5	0	6-29	56.6	3
ASGROW/O'S GOLD RX 860	-	98	48	-	0.5	0	6-26	54.6	2
DEKALB DK 636	-	97	55	-	0	0	6-26	55.5	2
GARST 8344	-	96	46	-	0	0	6-30	55.6	3
SUNBELT 6225	-	93	35	-	1.0	0	7-4	50.4	3
SUMMIT TR 3303	-	-	65	-	-	1.0	6-26	56.9	3
AGRATECH 888	-	-	65	-	-	0	6-29	55.3	2
DELTAPINE 5666	-	-	63	-	-	0	6-26	55.9	3
DELTAPINE 5750	-	-	60	-	-	0	6-30	53.7	2
DELTAPINE X9986	-	-	57	-	-	0	7-3	52.4	2
CRIST C-7115	-	-	56	-	-	0	6-27	56.3	3
FUNK'S RA 1502	-	-	55	-	-	0	6-30	53.3	2
HYPERFORMER HS 56	-	-	52	-	-	1.0	6-26	53.9	3
AGRIPRO AP 510	-	-	46	-	-	0	6-28	54.6	3
COKER 8625	-	-	45	-	-	0	6-27	56.1	3
NEW NK S 7686	-	-	43	-	-	0	6-30	54.8	2
CRIST C-8110	-	-	42	-	-	0	6-25	56.1	3
DEKALB DK 649	-	-	39	-	-	0	7-4	51.4	2
TEST AVERAGE			52.7						
L. S. D. (.05)			11.6						
C. V. (%)			15.7						

^{1/}CROSSVILLE

*1= EXCELLENT; 5= VERY POOR.

TABLE 15. EARLY CORN HYBRID TEST, CENTRAL ALABAMA^{1/} 1986-88

BRAND NAME-HYBRID	YIELD PER ACRE, AV.			LODGED STALKS, AV.			1988	
	3-YR.	2-YR.	1988	3-YR.	2-YR.	1988	MIDSILK	TEST
	1986-88	1987-88		1986-88	1987-88			WEIGHT
	BU.	BU.	BU.	PCT.	PCT.	PCT.	MO. /DA.	LB. /BU.
ASGROW/O'S GOLD 2570	69	84	45	5.3	6.5	2.0	6-20	56.8
MCCURDY 7800	65	81	53	8.0	9.5	2.0	6-18	59.3
ZIMMERMAN Z 27	65	81	54	2.7	3.0	0	6-21	57.2
FUNK'S G-4614	64	80	58	5.0	7.0	0	6-17	61.5
JACQUES 7820	64	80	45	5.7	7.5	0	6-16	57.4
NEW NK S 7751	63	80	46	5.7	7.0	0	6-14	58.4
AGRATECH GK 730	63	79	45	4.7	4.0	0	6-18	57.7
MCCURDY 7372	63	76	46	8.3	10.0	1.0	6-14	56.9
FFR 747C	62	77	44	5.7	5.5	1.0	6-16	57.6
COKER 8601	62	79	40	3.0	2.0	0	6-18	58.3
JACQUES 7900	61	80	47	6.3	8.5	2.0	6-16	57.0
DEKALB DK 656	60	73	46	3.0	4.0	1.0	6-18	56.4
NEW NK PX 79	52	65	50	5.0	5.5	1.0	6-17	56.5
SUNBELT 5613	-	87	47	-	4.5	1.0	6-16	59.0
SUNBELT 1802	-	86	46	-	7.5	2.0	6-19	58.9
SUNBELT 6225	-	81	43	-	4.0	0	6-23	54.1
ASGROW/O'S GOLD RX 860	-	80	41	-	3.5	0	6-18	58.2
FUNK'S G-4543	-	78	52	-	4.0	0	6-16	58.0
SUNBELT 1827	-	77	38	-	7.0	1.0	6-24	56.0
GARST 8344	-	77	46	-	6.5	0	6-16	57.6
DEKALB DK 636	-	73	38	-	9.0	0	6-18	58.0
COKER 8625	-	-	56	-	-	1.0	6-18	58.6
AGRATECH 888	-	-	55	-	-	0	6-20	55.9
SUMMIT TR 3303	-	-	54	-	-	0	6-17	56.7
DELTAPINE X9986	-	-	52	-	-	0	6-25	59.3
COKER CX 7681	-	-	51	-	-	1.0	6-22	55.8
DELTAPINE 5666	-	-	49	-	-	1.0	6-15	57.7
CRIST C-7115	-	-	49	-	-	1.0	6-15	56.5
HYPERFORMER HS 56	-	-	49	-	-	2.0	6-14	57.7
CRIST C-6112	-	-	42	-	-	1.0	6-16	57.4
DELTAPINE 5750	-	-	40	-	-	0	6-21	55.5
DEKALB DK 649	-	-	39	-	-	0	6-20	55.0
FUNK'S RA 1502	-	-	37	-	-	3.0	6-17	58.6
NEW NK S 7686	-	-	25	-	-	0	6-24	53.4
TEST AVERAGE			46.0					
L. S. D. (.05)			13.1					
C. V. (%)			20.2					

^{1/}SHORTER.

REPORT OF PRELIMINARY TESTS
 TABLE 16. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT CROSSVILLE
 IN NORTHERN ALABAMA, 1988

BRAND NAME-HYBRID	AV. YIELD	LODGED	HUSK*	MIDSILK	TEST
	PER ACRE	STALKS	RATING	MO -DA	WEIGHT
	BU.	PCT.			LB./BU.
AGRATECH EXP 8901	59	3.0	3	7-10	56.6
PIONEER 3140	59	1.0	3	7-11	55.7
NEW NK S 8645	54	0	2	7-9	56.1
TERRA TR 364E	52	1.0	3	7-10	55.8
TRIUMPH 2020	49	0	2	7-10	56.6
AGRATECH GK 825	49	1.0	3	7-7	56.2
ZIMMERMAN Z 31	48	1.0	3	7-6	54.7
TERRA TR 366E	47	0	3	7-8	57.6
ZIMMERMAN Z 33	47	1.0	2	7-9	58.4
MCCURDY 87-77	47	0	2	7-11	58.5
COKER 8701	47	1.0	3	7-10	56.7
NC+ 5891	46	0	3	7-6	57.4
JACQUES 8210	45	0	3	7-4	56.5
CRIST C-8110	44	0	2	7-3	56.7
TRIUMPH 1595	44	1.0	3	7-6	56.5
NC+ 6414	43	0	3	7-9	57.2
PIONEER 3343	43	0	3	7-8	54.6
TERRA TR 363E	43	1.0	3	7-9	57.2
TERRA TR 365E	43	0	3	7-8	56.7
COKER 8690	43	1.0	3	7-9	56.1
CX 505B	42	0	3	7-7	57.8
HYPERFORMER HS 97	42	0	3	7-10	56.1
CARGILL 8027	41	0	3	7-5	55.6
TRIUMPH 1650FC	40	1.0	3	7-10	59.7
FUNK'S G-4743	40	1.0	3	7-14	58.9
TERRA TR 402E	38	1.0	2	7-9	59.0
FUNK'S G-4814	37	0	2	7-10	58.5
FUNK'S B018 X	36	0	3	7-14	55.0
NEW NK X 8727	36	1.0	2	7-10	56.0
AGRIPRO 818	36	0	3	7-7	56.3
FUNK'S 7046 X	36	0	3	7-12	56.0
FFR 16049	36	1.0	3	7-13	53.6
SUNBELT 7705	36	0	2	7-13	54.7
FUNK'S 4665	35	1.0	3	7-7	58.5
FFR 15983	35	1.0	3	7-9	55.9
AGRIPRO AP 670	35	0	3	7-8	56.7
PIONEER 3165	35	0	3	7-12	55.9
HYPERFORMER HS 64	35	0	3	7-8	56.0
FFR 15982	35	1.0	3	7-6	56.9
HYPERFORMER HS 60	34	0	3	7-8	57.7
SUNBELT 7400	33	0	2	7-15	57.0
SEEDTEC ST-7711	33	1.0	3	7-12	52.2
SOLAR SD 5020	32	0	2	7-9	57.5
CRIST C-8119	32	1.0	3	7-8	56.1
CARGILL 8967	30	1.0	2	7-9	56.3
AGRIPRO EX 714	29	0	2	7-6	56.7
AGRIPRO 820	29	1.0	4	7-9	56.5
COKER CX 7681	24	0	3	7-10	56.0
TEST AVERAGE	40.2				
L. S. D. (.05)	12.2				
C. V. (%)	21.8				

*1= EXCELLENT. 5= VERY POOR.

REPORT OF PRELIMINARY TESTS
 TABLE 17. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT TALLASSEE
 IN CENTRAL ALABAMA, 1988

BRAND NAME-HYBRID	AV. YIELD	LODGED	HUSK*	MIDSILK	TEST
	PER ACRE	STALKS			WEIGHT
	BU.	PCT.	RATING	MO.-DA.	LB./BU.
PIONEER 3165	152	1.0	2	6-26	56.9
FFR 16049	133	1.0	3	6-23	59.4
AGRATECH GK 825	131	1.0	3	6-22	59.6
COKER 8690	131	1.0	3	6-21	59.3
SUNBELT 7400	128	3.0	2	6-28	55.5
PIONEER 3140	125	2.0	2	6-22	58.8
NC+ 7507	120	1.0	3	6-23	57.9
PIONEER 3343	117	1.0	3	6-20	55.8
TERRA TR 366E	111	0	3	6-18	59.3
FFR 15982	110	1.0	3	6-18	55.8
AGRATECH EXP 8901	108	0	3	6-22	59.5
COKER 8701	107	0	2	6-23	59.4
FUNK'S 4665	106	0	2	6-21	61.2
NC+ 5891	106	0	3	6-23	59.2
TRIUMPH 1650FG	101	1.0	3	6-23	58.5
TERRA TR 365E	101	0	2	6-23	58.7
CARGILL 8027	100	0	3	6-18	55.5
TERRA TR 402E	100	1.0	2	6-24	61.1
JACQUES 8210	99	0	3	6-23	58.9
SEEDTEC ST-7711	99	1.0	3	6-23	60.1
FUNK'S G-4614	99	1.0	3	6-24	58.9
AGRIPRO AP 850	96	0	2	6-21	59.4
TERRA TR 363E	92	0	2	6-23	58.6
AGRIPRO 818	90	1.0	3	6-23	59.4
TERRA TR 364E	89	0	2	6-22	57.8
ZIMMERMAN Z 33	89	0	2	6-23	59.7
CRIST C-8119	89	1.0	3	6-21	59.8
SOLAR SD 4000	89	0	3	6-21	55.4
COKER CX 7681	87	0	3	6-23	59.8
MCCURDY 87-77	86	0	2	6-24	59.3
TRIUMPH 2020	86	0	2	6-22	57.8
CX 5058	85	0	2	6-21	58.4
FUNK'S 8018 X	84	0	2	6-25	55.8
FFR 15983	84	0	3	6-23	55.0
TRIUMPH 1595	84	1.0	3	6-19	59.1
AGRIPRO AP 670	84	0	3	6-19	58.5
FUNK'S 7046 X	79	1.0	3	6-24	55.8
SUNBELT 7705	74	0	2	6-26	57.7
AGRIPRO EX 714	72	0	3	6-22	58.4
ZIMMERMAN Z 31	71	0	2	6-22	56.8
HYPERFORMER HS 64	69	1.0	3	6-21	58.0
HYPERFORMER HS 97	68	2.0	2	6-25	58.2
CARGILL 8967	67	0	3	6-25	59.6
NEW NK S 8645	65	0	2	6-24	58.3
HYPERFORMER HS 60	65	2.0	2	6-22	58.8
AGRIPRO 820	64	1.0	4	6-21	54.8
NC+ 6414	63	1.0	3	6-22	56.0
SOLAR SD 5020	45	0	2	6-23	58.8
TEST AVERAGE	93.6				
L. S. D. (.05)	27.8				
C. V. (%)	21.2				

*1= EXCELLENT; 5= VERY POOR.

REPORT OF PRELIMINARY TESTS
 TABLE 18. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT FAIRHOPE
 IN SOUTHERN ALABAMA, 1988

BRAND NAME-HYBRID	AV YIELD	LODGED	HUSK*	MIDSILK	TEST
	PER ACRE	STALKS			WEIGHT
	BU.	PCT.	RATING	MO.-DA.	LB./BU.
AGRATECH GK 825	109	0	3	6-3	55.5
AGRIPRO AP 850	104	0	2	6-5	53.7
TERRA TR 366E	102	0	3	6-3	56.4
TRIUMPH 2020	102	0	3	6-6	55.1
TERRA TR 364E	101	0	2	6-6	56.1
NEW NK S 8645	99	0	2	6-5	55.9
FUNK'S 4665	97	0	2	6-4	55.5
ZIMMERMAN Z 31	96	0	3	6-4	53.4
SOLAR SD 5020	96	0	2	6-6	53.2
PIONEER 3165	95	4.0	3	6-8	52.8
COKER 8701	95	0	3	6-5	55.3
TRIUMPH 1650FG	94	0	3	6-6	56.7
NC+ 7507	94	0	4	6-7	55.2
AGRIPRO AP 670	91	0	3	6-3	56.7
FUNK'S 7046 X	91	0	3	6-8	53.2
JACQUES 8210	91	0	2	6-4	54.7
CARGILL 8027	90	0	3	6-4	54.9
TERRA TR 363E	89	0	3	6-6	54.7
PIONEER 3140	88	1.0	3	6-7	53.5
FFR 16049	88	1.0	4	6-8	52.3
CX 5058	87	0	3	6-3	53.5
AGRATECH EXP 8901	86	1.0	4	6-5	52.4
MCCURDY 87-77	86	0	2	6-7	56.2
TERRA TR 365E	86	0	1	6-4	56.1
NC+ 6414	86	0	4	6-5	53.4
SEEDTEC ST-7711	85	1.0	3	6-7	-
NEW NK X 8727	84	0	4	6-6	54.4
AGRIPRO 820	84	0	4	6-4	53.3
FUNK'S G-4614	84	0	3	6-5	53.0
FUNK'S 8018 X	84	1.0	2	6-8	50.0
AGRIPRO EX 714	83	0	3	6-3	53.8
NC+ 5891	82	0	3	6-3	56.8
CARGILL 8967	82	1.0	4	6-6	52.5
TRIUMPH 1595	81	0	3	6-4	53.9
HYPERFORMER HS 97	81	2.0	3	6-6	53.5
SOLAR SD 4000	80	1.0	4	6-4	51.9
ZIMMERMAN Z 33	80	0	2	6-5	55.4
CRIST C-8114	79	0	3	6-3	52.8
SUNBELT 7400	79	2.0	3	6-10	54.4
TERRA TR 402E	75	0	2	6-5	55.5
COKER CX 7681	75	0	3	6-7	52.9
FFR 15982	74	0	3	6-4	52.1
PIONEER 3343	71	0	4	6-5	51.1
HYPERFORMER HS 64	70	0	3	6-5	52.1
SUNBELT 7705	70	1.0	3	6-7	51.3
HYPERFORMER HS 60	64	0	3	6-6	51.5
COKER 8690	56	0	4	6-6	50.6
FFR 15983	53	0	4	6-6	48.5
TEST AVERAGE	85.1				
L. S. D. (.05)	16.5				
C. V. (%)	13.8				

*1= EXCELLENT, 5= VERY POOR.

Table 19. Days to Silking and Shuck Quality of Corn Hybrids,
Plant Breeding Unit, Tallassee, Alabama, 1988

Brand name	Hybrid	Days to silking	Shuck length	Shuck* tightness
			<u>mm</u>	<u>Rating</u>
AgraTech	GK 750	84	27	1.0
	GK 825	83	33	2.0
	GK 850	84	30	1.0
	GK 900	84	13	1.0
	888	84	50	2.5
	917	78	27	3.0
	921 W	84	40	3.0
	Exp 8901	89	43	2.0
AgriPro	AP 510	85	37	1.5
	AP 670	86	20	1.5
	AP 793	84	47	2.5
	AP 850	85	23	2.5
	818	84	17	1.0
	820	78	23	1.5
	EX 714	85	23	1.0
Asgrow/O's Gold	RX 860	85	40	2.0
	RX 956 W	84	37	2.0
	2570	78	40	2.0
	5509	84	10	1.0
Cargill	8027	78	50	2.0
	8967	82	20	1.5
	8990	84	20	2.5
	9400 W	84	20	1.5
	9427	84	40	2.5
	SX 16A	84	23	1.0
Coker	21	84	10	1.5
	833 W	78	20	3.0
	8601	86	27	1.0
	8625	89	30	1.0
	8690	84	10	1.0
	8696	85	17	2.0
	8701	84	47	2.5
	CX 5058	84	40	1.0
CX 7681	85	10	1.0	

Continued

Table 19 (Continued). Days to Silking and Shuck Quality of Corn Hybrids, Plant Breeding Unit, Tallassee, Alabama, 1988

Brand name	Hybrid	Days to silking	Shuck length	Shuck* tightness
			<u>mm</u>	<u>Rating</u>
Crist	C-6112	83	17	1.0
	C-7115	84	27	1.0
	C-7118V	83	43	2.0
	C-7125	84	17	1.5
	C-8110	78	43	1.0
	C-8119	85	3	1.0
Dekalb	DK 77 W	84	40	1.5
	DK 636	78	37	2.5
	DK 649	85	30	2.0
	DK 656	83	27	1.5
	DK 689	84	30	2.5
	DK 711	84	33	1.5
	DK 789	84	10	1.0
	EXP 765 W	78	33	1.5
EXP 775 W	84	30	2.0	
Deltapine	5666	84	37	1.0
	5750	83	63	2.5
	X 9986	85	10	2.0
FFR	747 C	84	47	1.0
	929 W	88	33	2.0
	15982	84	43	1.0
	15983	84	3	1.0
	16049	89	47	2.0
Funk's	G-4522	85	33	1.0
	G-4543	86	33	1.0
	G-4614	86	23	1.5
	G-4665	84	33	2.0
	G-4666	85	50	2.0
	G-4734	88	23	1.5
	G-4743	86	20	1.0
	G-4868	88	10	1.0
	RA 1502	85	40	1.0
	6043 W	84	20	2.0
	6058 W	84	7	1.0
	7046 W	84	23	1.0
8018 X	85	23	3.0	

Continued

Table 19 (Continued). Days to Silking and Shuck Quality of Corn Hybrids, Plant Breeding Unit, Tallassee, Alabama, 1988

Brand name	Hybrid	Days to silking	Shuck length	Shuck* tightness
			mm	Rating
Garst	8116	84	43	3.0
	8180	89	43	2.0
	8344	84	27	1.0
HyPerformer	HS 56	84	47	1.5
	HS 60	84	47	2.5
	HS 64	84	33	1.5
	HS 97	84	37	2.0
Jacques	W 210	78	30	3.0
	7820	83	37	2.0
	7900	78	10	1.0
	8210	84	43	3.0
	8250	84	37	1.5
	8280	84	33	1.5
	8350	84	33	2.0
	8400	84	10	1.0
	8700	84	30	2.5
9220	86	27	1.0	
McCurdy	87-77	86	30	2.5
	7372	85	23	1.0
	7777	84	13	1.5
	7800	78	23	1.5
	8172	78	10	1.0
NC+	5891	84	43	1.5
	6414	85	0	1.0
	7507	79	3	1.0
New Northrup King	McNair 508	86	23	2.0
	PX 79	85	7	1.0
	PX 95	84	10	1.5
	PX 9581	84	30	1.5
	S 7686	84	30	1.0
	S 7751	83	47	1.0
	S 8645	83	67	2.5
	X 8727	84	23	1.5

Continued

Table 19 (Continued). Days to Silking and Shuck Quality of Corn Hybrids, Plant Breeding Unit, Tallassee, Alabama, 1988

Brand name	Hybrid	Days to silking	Shuck length	Shuck* tightness
			<u>mm</u>	<u>Rating</u>
Pioneer	3055	82	37	3.0
	3140	84	20	2.0
	3144 W	84	13	1.0
	3147	84	37	1.5
	3165	85	33	2.5
	3187	84	37	2.0
	3283 W	94	20	1.0
	3295	86	20	1.5
	3320	84	47	2.0
	3343	78	20	1.0
	3358	85	20	1.0
SeedTec	ST 2601	84	0	1.0
	ST 7711	83	30	1.0
	ST 7750	85	43	2.5
Solar	SO 4000	84	43	1.5
	SO 5020	84	30	2.0
	SO 6040	84	10	3.0
	SO 6080 W	84	23	2.5
Summit	TR 1185	86	10	2.0
	TR 3303	84	7	1.0
	TR 4405	84	13	1.0
Sunbelt	1802	84	30	1.0
	1827	84	13	1.0
	1860	84	23	2.0
	1876	83	40	3.0
	1882	83	2	2.5
	5613	85	1	1.0
	6225	85	27	1.5
	7400	84	30	3.0
	7705	85	27	2.0
Terra	TR 363 E	84	40	2.5
	TR 364 E	84	43	2.5
	TR 365 E	83	33	2.0
	TR 366 E	83	23	2.0
	TR 402 E	84	10	2.5

Continued

Table 19 (Continued). Days to Silking and Shuck Quality of Corn Hybrids, Plant Breeding Unit, Tallassee, Alabama, 1988

Brand name	Hybrid	Days to silking	Shuck length	Shuck* tightness
			<u>mm</u>	<u>Rating</u>
Triumph	1595	83	13	1.0
	1650 FG	84	23	1.0
	2020	85	50	2.0
Zimmerman	Z 14 W	84	27	2.0
	Z 16 W	88	30	2.0
	Z 17 W	88	7	1.0
	Z 27	88	20	1.0
	Z 31	83	30	1.5
	Z 33	79	30	2.5

* 1 - 3 scale: 1 = tight, 3 = loose.

SOURCES OF 1988 CORN HYBRID TEST SEED

<u>Seed Company</u>	<u>Brand</u>	<u>Seed Company</u>	<u>Brand</u>
AgraTech Seed, Inc. P.O. Box 644 Ashburn, GA 31714	AgraTech	Jacques Seed Co. Prescott, WI 54021	Jacques
AgriPro Seed Co. P.O. Box 112 Geneseo, IL 61254	AgriPro AP	McCurdy Seed Co. Fremont, IA 52561	McCurdy
Alabama Farmers Cooperative, Inc. P.O. Box 2227 Decatur, AL 35602	FFR	NC + Hybrid Rt. 2 Box 190 Hastings, NE 68901	NC +
Asgrow Seed Co. Box 1945 Plainview, TX 79073	Asgrow/ O's Gold	The New Northrup King Rt. 2 Box 200 Highland, IL 62249	New N.K. McNair
Cargill Hybrid Seeds Box 5645 Minneapolis, MN 55440	Cargill	Pioneer Hi-Bred Int. 1000 W. Jefferson St. Tipton, IN 46072	Pioneer
Coker's Pedigreed Seed Co. P.O. Box 340 Hartsville, SC 29550	Coker CX (Now New Northrup King)	Seed Processors, Inc. Rt. 8 Box 86 Wetumpka, AL 36092	Sunbelt
Crist Seed Outlets, Inc. Box 1107 Lynn Haven, FL 32444	Crist	SeedTec Inter- national, Inc. Eldred, IL 52027	SeedTec
Dekalb-Pfizer Genetics 3100 Sycamore Road Dekalb, IL 60115	Dekalb	Solar Seeds, Inc. P.O. Box 436 Hardin, IL 62047	Solar SO
Delta and Pine Land Co. P.O. Box 157 Scott, MS 38772	Deltapine	Summit Seed Co. P.O. Box 10121 Lubbock, TX 79408	Summit TR
Funk Seeds International P.O. Box 2911 Bloomington, IL 61702	Funk's G Ring Around	Terra International, Inc. 3 Henson Place Champaign, IL 61820	Terra TR
Garst Seed Company Rt. 3 Box 93 Bowling Green, MO 63334	Garst	Triumph Seed Co., Inc. P.O. Box 1050 Ralls, TX 79357	Triumph
HyPerformer Seed Co. 5100 Poplar Memphis, TN 38103	HyPerformer HS	Zimmerman Hybrids, Inc. 5147 W. Franklin Rd. Evansville, IN 47712	Zimmerman

ACCEPTABLE HYBRIDS FOR 1989

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 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
DeKalb	DK 689	Zimmerman	Z 54 W	SeedTec	ST-2601
Pioneer	3165	Pioneer	3144 W	McCurdy	7372
McCurdy	8172	Jacques	W-210	McCurdy	7800
Zimmerman	Z 27	AgraTech	921 W	Asgrow/O's Gold	2570
DeKalb	DK 789	Zimmerman	Z 60 W	Sunbelt	1827
Pioneer	3147	Zimmerman	Z 14 W	Zimmerman	Z 27
Jacques	8400	Coker	833 W	Coker	8601
Pioneer	3320	*FFR	929 W	Jacques	7900
Asgrow/O's Gold	2570	**Zimmerman	Z 16 W	Funk's	G-4614
AgraTech	GK 900			AgraTech	GK 750
AgraTech	GK 850			*Funk's	G-4522
*Funk's	G-4522			*FFR	747 C
*New NK	PX 9581			*New NK	PX 79
*Cargill	8990			**Sunbelt	5613
*Asgrow/O's Gold	5509				
*New NK	PX 95				
**DeKalb	DK 711				

*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 1989 (continued)
CENTRAL ALABAMA

Yellow hybrids		White hybrids		Early hybrids		Black Belt	
Brand name	Hybrid	Brand name	Hybrid	Brand name	Hybrid	Brand name	Hybrid
DeKalb	DK 689	Pioneer	3144 W	Asgrow/O'Gold	2570	DeKalb	DK 689
Pioneer	3165	AgraTech	921 W	McCurdy	7800	Zimmerman	Z 27
Zimmerman	Z 27	Zimmerman	Z 14 W	Zimmerman	Z 27	DeKalb	DK 789
Pioneer	3320	Zimmerman	Z 54 W	Funk's	G-4614	Sunbelt	1860
DeKalb	DK 789	DeKalb	DK 77 W	Jacques	7820	Jacques	8400
Jacques	8400	*Zimmerman	Z 60 W	New NK	S 7751	Pioneer	3147
McCurdy	8172	*Coker	833 W	*AgraTech	GK 750	New NK	PX 95
Asgrow/O'Gold	2570	*FFR	929 W	*McCurdy	7372		
Sunbelt	1882	**Zimmerman	Z 16 W	*Coker	8601		
AgraTech	GK 900			*New NK	PX 79		
Pioneer	3147			**Sunbelt	5613		
*Sunbelt	1827			**Sunbelt	1802		
*Sunbelt	1876						
**McCurdy	7777						

*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 1989 (continued)
SOUTHERN ALABAMA

Yellow hybrids		White hybrids		Early hybrids [†]	
Brand name	Hybrid	Brand name	Hybrid	Brand name	Hybrid
McCurdy	8172	Zimmerman	Z 54 W	Zimmerman	Z 27
Pioneer	3165	Zimmerman	Z 14 W	SeedTec	H-2601
DeKalb	DK 689	DeKalb	DK 77 W	Sunbelt	1827
DeKalb	DK 789	Pioneer	3144 W	Sunbelt	1802
Asgrow/O's Gold	5509	Coker	833 W	Coker	8575
Pioneer	3147	Zimmerman	Z 60 W	Funk's	G-4522
Sunbelt	1882			Coker	8601
Sunbelt	1827			Jacques	7820
Asgrow/O's Gold	2570			McCurdy	7372
Coker	21			Asgrow/O's Gold	RX 777
*Jacques	8400			FFR	747 C
*Funk's	G-4614			*AgraTech	GK 750
*Pioneer	3320			*Asgrow/O's Gold	2570
**Sunbelt	1860			*Funk's	RA 1404
				*Jacques	7900
				*Funk's	G-4614
				**McCurdy	7800
				**Stauffer	S 7751

*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.

[†]Recommendations are the same as last year due to drought conditions and failure of test in 1988.

