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## Mississippi Hybrid Corn Tests, 1963

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# Mississippi Hybrid Corn Tests, 1963

MISSISSIPPI STATE UNIVERSITY  
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### COOPERATIVE PROJECT

Corn breeding and testing in Mississippi is a cooperative project between the U. S. Department of Agriculture and the Mississippi Agricultural Experiment Station. In addition to Dr. Grogan and Dr. Campbell, who are listed as authors of this report, the following research men supervised the tests at the various branch stations or participated in it at State College.

Donald H. Bowman, agronomist, Delta Branch Experiment Station, Stoneville.

W. A. Douglas, and C. A. Henderson, entomologists, U.S.D.A., State College, Mississippi.

S. P. Crockett, superintendent, North Mississippi Branch Station, Holly Springs.

Robert C. Albritton, superintendent, Northeast Mississippi Branch Station, Verona.

B. C. Hurt, superintendent, Pontotoc Ridge-Flatwoods Branch Station, Pontotoc.

Louie Walton, superintendent, Black Belt Branch Station, Brooksville.

B. E. Waggoner, asst. agronomist, Coastal Plain Branch Station, Newton.

Robert E. Coats, agronomist, Brown Loam Branch Station, Raymond.

T. E. Ashley, superintendent, South Mississippi Branch Station, Poplarville.

Three of the tests were on private farms through the cooperation of P. F. Williams, Jr., Clarksdale; E. T. Schaefer, Yazoo City; and M. A. Luter, Tylertown.

# 1963 HYBRID CORN TESTS

By . O. GROGAN AND C. M. CAMPBELL<sup>1</sup>

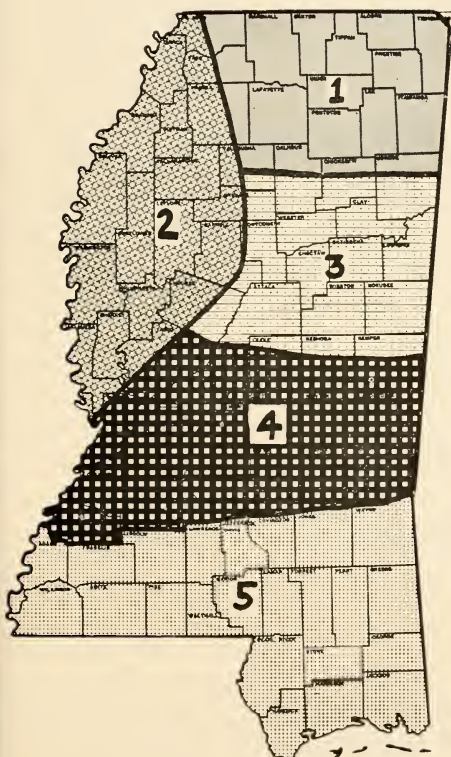
The southern one-half of Mississippi experienced a very unfavorable season for corn production. Difficulties were encountered in other areas of the state also to give two consecutive years of drought during the growing season. Certain areas, however, had exceptionally good rainfall distribution and excellent yields were reported.

The 1963 main hybrid tests were grouped, as in 1962, in 5 areas on the basis of soil types and certain climatological

factors. At least two tests were located in each area. The system is giving very satisfactory results and is well received by farmers and commercial seedsmen. No restrictions were imposed on the number of hybrids entered by any one company in 1963. The greater flexibility in testing procedures will benefit all individuals concerned with the production, distribution, and consumption of hybrid seed corn.

Five replications of each hybrid were planted in a randomized block design at all locations except Stoneville, Poplarville, and Tylertown where the hybrids were planted in a balanced lattice design with 6 replications. The individual plots were check-planted in 2 x 5 hills to facilitate ease of planting, obtaining a uniform population, taking notes, and in making the necessary calculations of performance. Check and drill-type plantings at a given plant population will give comparable results. The data from Clarksdale will not be reported since the test was ruined by thieves.

In addition to yield, notes were taken on root and stalk lodging, ear height, ears per plant, moisture in the grain, percent stand, and insect damage. The most recent and highly destructive insect is the Southwestern corn borer. Work is in progress to determine which cultural practices will reduce losses and to search for corn that shows some de-



See appropriate table for your area of state.

<sup>1</sup>Agronomists, Crops Research Division, U. S. Department of Agriculture and the Mississippi Agricultural Experiment Station. Cooperative research was with the Entomology Division, Agricultural Research Service, U. S. Department of Agriculture. The tests were conducted jointly with the Branch Experiment Stations and on three private farms. See opposite page.

Summary performance of the main hybrid tests in area I (Holly Springs, Verona, and Pontotoc Ridge and Flatwoods), 1963

Hybrid	Acre yield	Lodging root	Lodging stalk	Ear ht.	Ears per plant	Moist.		Stand	Penetration <sup>1</sup>		Earworm		P.C.W. <sup>2</sup>		Husk		S.W.C.B. <sup>5</sup>	
						%	in grain		%	In.	Ears in-fested	Ears in-fested	%	In.	Extens-ion <sup>3</sup>	Tight-ness <sup>4</sup>	In-fested	%
Funks G-795W	73.5	.3	9.4	3.6	1.5	12.2	95	0.5	55	68	2.9	0.82	8.4	0.0				
Embro Depart VIII	73.3	3.6	21.7	3.9	2.3	12.1	99	0.5	55	55	2.9	0.74	6.0	1.2				
Miss. 6135 (Exp.)	71.2	0.0	16.8	4.3	1.6	11.7	96	0.7	50	60	2.7	0.70	10.5	5.3				
Pioneer 509W	70.9	.3	13.0	3.6	1.2	11.7	97	2.0	80	93	1.3	1.13	9.8	2.4				
Delta 9907 (Exp.)	68.5	0.0	6.6	4.3	1.5	12.3	97	0.8	73	83	2.9	0.64	12.3	2.5				
Dixie 55	68.3	0.0	15.6	4.5	1.4	12.1	96	0.9	73	80	3.0	0.73	5.8	3.5				
Dixie 77	68.0	.5	17.7	3.9	1.3	12.5	91	0.9	65	78	2.5	0.75	7.5	2.5				
Pioneer 3037 (9187)	66.6	0.0	17.7	3.8	1.4	12.8	95	0.8	73	75	2.4	0.79	12.0	3.6				
Embro Jarvis E	66.1	.2	13.1	3.1	1.1	11.8	98	1.8	85	95	1.5	1.04	14.1	2.2				
McCurdy M97	65.0	1.7	19.0	3.7	1.1	11.5	99	1.3	78	85	1.9	1.04	17.4	5.8				
Pioneer 8224	64.6	0.0	19.8	3.6	1.3	12.4	98	0.6	53	65	2.5	0.74	10.1	0.0				
Miss. 6133 (Exp.)	64.4	.3	20.1	4.0	1.5	11.7	96	0.6	55	68	3.3	0.66	11.7	1.3				
Pioneer 3048 (8218)	63.4	.5	12.3	4.0	1.1	12.7	96	0.8	75	78	3.2	0.68	11.1	5.0				
Pioneer 309B	63.2	0.0	13.3	3.4	1.2	12.5	96	1.2	70	75	2.2	0.91	15.5	8.3				
DeKalb 1212	62.2	.5	12.7	4.4	1.1	12.5	92	1.0	65	78	2.2	0.76	18.9	8.9				
Stulls 111YA	61.1	0.0	14.6	4.2	1.1	12.1	97	0.9	78	88	2.5	0.91	15.1	3.5				
Embro 222TA	60.7	.5	10.2	4.0	1.0	12.1	97	0.9	63	85	2.4	0.78	8.5	1.2				
Funks G-580W	60.6	.3	9.8	3.4	1.2	12.3	98	1.0	73	78	2.2	0.81	2.4	0.0				
Funks G-711AA	60.6	.2	23.2	3.8	1.1	12.2	93	1.5	80	90	1.6	1.08	9.6	2.4				
Pioneer 310	60.1	.3	11.4	3.1	.9	11.4	92	1.9	90	95	1.5	1.07	13.2	6.6				
Stulls 500W	59.3	0.0	24.4	3.5	.9	12.2	97	1.3	78	88	2.3	0.87	12.9	4.3				
McCurdy 999	59.3	.5	20.5	3.6	1.0	11.6	96	1.0	53	60	2.1	0.96	6.2	1.2				
McCurdy 7X11	59.0	0.0	9.2	3.0	1.0	11.3	95	2.2	88	93	1.2	1.26	14.1	1.3				
Dixie 22	59.0	0.0	18.9	4.2	1.0	12.6	92	1.1	70	85	2.4	0.77	9.6	4.3				
McCurdy 972X7	58.3	.3	10.4	3.6	.9	11.4	95	1.8	90	90	1.7	1.10	13.9	3.5				
McNair 304A	58.2	.5	10.2	3.3	1.0	12.6	91	0.7	60	73	2.5	0.78	15.7	8.4				
Funks G-707	57.7	0.0	16.4	3.4	1.1	12.2	94	1.5	80	85	1.9	0.95	11.1	2.5				
Embro Jarvis L	57.1	.5	23.2	4.0	1.1	12.1	96	0.8	55	75	2.7	0.98	12.6	0.0				
DeKalb 1213	55.3	.3	9.4	4.2	1.1	12.5	94	0.7	70	78	3.0	0.68	22.5	5.6				
Embro Low Boy	54.9	0.0	9.7	3.8	1.1	12.5	93	1.1	65	75	2.9	0.71	12.2	4.9				
Mean	63.0	0.4	15.0	3.7	1.2	12.1	95	1.1	70	79	2.3	0.86	11.8	3.4				

<sup>1</sup>Penetration from tip of ear. <sup>2</sup>Pink corn worm. <sup>3</sup>Extension beyond tip of ear. <sup>4</sup>Diameter of silk channel at tip of ear.

gree of resistance.

Although corn stunt has been identified in Mississippi, its appearance is recent and no recommendations as to variety resistance can be made at this time.

The significance of the number of ears per plant is often not well understood. As a general rule, the hybrids which produce the largest number of ears per plant at a given population are the ones which give the highest yields during stress as well as optimum conditions.

The importance of planting corn early in Mississippi cannot be ignored. Tests conducted for a number of years reveal that the early-planted corn will give the best yields and will have less lodging and insect damage at harvest. In a corn-cotton farming program, corn easily can

be planted before cotton and harvested before cotton. If the farmer disposes of the corn as a cash crop, he will be in a position to take advantage of the higher early market.

Several factors should be considered in selecting a hybrid or hybrids. Yield is one prime consideration but by no means the only one. However, when yield is considered, the three-year average is much more important than the information of one location or the Area average for one year. Lodging resistance, insect resistance (especially in some areas), and other characteristics are important and should be weighed according to the farming operations. Finally, time of planting and an adequate fertilizer program are essential in making an adapted hybrid produce its maximum potential.

Summary performance of the main hybrid test at Stoneville (Exp. 306). Area 2\*, 1963.

Hybrid	Acre yield		Lodging Stalk	Ear ht.	Ears per plant		Stand	Earworm Pene- tration <sup>1</sup> In.
	3-Yr. mean	1963			%	Ft.		
	Bu.	Bu.	%	Ft.	No.	%	In.	
Miss 6131 (Exp.)	-----	156.4	43.0	4.5	2.3	100	1.0	
Miss 6135 (Exp.)	-----	134.0	41.0	4.2	2.4	96	1.0	
Delta 9907 (Exp.)	111.3	133.2	34.0	4.2	2.0	100	1.0	
Dixie 55	111.1	131.0	41.0	4.2	2.1	97	1.0	
Funks G-795W	115.2	122.3	76.0	3.8	2.0	90	1.2	
DeKalb 1212	-----	121.5	33.0	4.8	1.7	98	1.5	
Miss. 0002 (Exp.)	114.4	119.4	70.0	4.0	2.0	90	1.3	
Coker 67	104.3	114.4	23.0	4.0	1.8	97	0.7	
Dekalb 1225	103.5	113.8	43.0	4.7	1.7	95	0.7	
Funks G-732	-----	113.0	33.0	4.0	1.6	99	1.0	
Pioneer 309B	99.5	112.4	49.0	3.5	1.7	96	1.8	
Pioneer 3048 (8218)	-----	111.7	43.0	4.2	1.5	97	1.5	
Dekalb 1213	-----	111.2	25.0	4.7	1.7	94	0.7	
Embro 222TA	-----	109.2	32.0	4.0	1.2	98	2.0	
McCurdy M97	-----	109.1	40.0	3.5	1.5	90	1.8	
Funks G-711AA	95.9	108.6	31.0	4.0	1.5	88	1.7	
Funks G-580W	-----	106.7	51.0	3.7	1.5	87	1.0	
Pioneer 3037 (9187)	-----	106.7	58.0	3.2	1.6	96	1.5	
Funks G-707	-----	105.0	21.0	3.5	1.5	96	1.2	
Dixie 77	103.6	104.6	60.0	3.8	1.7	85	1.0	
Dixie 22	98.2	104.2	47.0	4.3	1.7	91	1.0	
McCurdy 999	93.5	103.2	50.0	3.7	1.4	97	1.3	
Embro Low Boy	-----	98.5	49.0	4.0	1.6	91	1.0	
Coker 911	95.6	94.2	70.0	3.8	1.6	86	1.3	
McNair 304A	-----	93.8	36.0	3.3	1.3	88	1.0	
Mean	-----	108.4	44.0	4.0	1.7	94	1.2	
C.V. 9% LSD, 5%	-----	11.6						

<sup>1</sup>Inches from tip of ear.

\*Data from Clarksdale not included since the test was damaged by thieves.

Summary performance of the main hybrid tests in Area 3 (State College and Brooksville), 1963.

Hybrid	Acre yield		Lodging stalk		Ear ht.	Ears per plant		Moist.		Earworm		P.C.W. <sup>2</sup>		Husk		S.W.C.B. <sup>5</sup>	
	Bu.	%	root	%		Ft.	No.	in grain	Stand	Pene- tration <sup>1</sup>	Ears in- fested	%	cars in- fested	In.	Exten- sion <sup>3</sup>	In.	Tight- ness <sup>4</sup>
Dixie 82	130.4	4.9	4.5	4.5	4.8	1.9	13.3	96	1.2	95	90	3.4	0.56	25.0	5.0		
Miss. 0002 (Exp.)	125.6	4	6.1	7.3	4.3	1.8	13.1	100	0.8	75	73	3.7	0.59	11.1	0.0		
Dixie 55	122.6	1.2	7.3	4.6	4.6	1.8	12.7	99	1.1	88	75	3.0	0.59	21.6	10.8		
Delta 9907 (Exp.)	121.1	0.0	1.5	4.3	4.3	1.8	12.8	100	1.0	88	70	2.9	0.59	25.0	10.0		
Funks G-795W	121.0	1.4	7.9	3.6	4.7	1.7	13.2	98	1.1	78	70	3.3	0.61	10.5	2.6		
Riemers 305	118.3	3.0	6.9	4.4	4.4	1.8	12.5	97	1.1	88	85	3.6	0.60	20.0	5.7		
Funks G-14486	111.3	4.5	6.5	4.5	4.5	1.6	13.3	100	1.1	90	85	2.1	0.76	40.5	16.2		
Pioneer 3048 (8218)	107.2	2.0	1.5	3.8	3.8	1.3	12.2	100	1.4	93	85	3.0	0.64	32.4	13.5		
Dixie 18	104.3	1.4	3.9	4.7	4.7	1.6	13.2	100	0.6	68	75	3.3	0.59	44.7	13.2		
Funks G-720	103.2	1.0	2.0	3.7	3.7	1.3	12.6	99	1.1	88	80	2.5	0.78	27.5	15.0		
Funks G-732	102.7	5.7	1.2	3.9	3.9	1.4	13.0	100	1.5	85	88	2.3	0.74	25.0	12.5		
Embro Jarvis L	102.4	1.5	4.1	3.9	4.1	1.4	12.3	99	1.0	80	78	2.9	0.66	19.5	0.0		
DeKalb 1212	102.2	4.9	2.3	4.6	4.6	1.3	12.7	100	1.0	80	75	3.3	0.60	41.5	2.2		
McNair 425	102.0	.7	1.9	4.0	4.0	1.5	12.7	100	1.1	83	90	2.5	0.74	31.0	9.5		
DeKalb 1213	101.6	2.1	2.4	4.8	4.8	1.4	12.3	99	0.9	83	75	2.5	0.75	19.5	2.4		
Pioneer 309B	101.4	1.1	2.2	3.3	3.3	1.3	12.4	99	1.4	100	80	2.6	0.70	11.4	0.0		
Embro 222TA	100.7	3.1	4.5	4.3	4.3	1.2	13.1	99	1.2	80	78	2.5	0.72	17.5	0.0		
Coker 911	100.2	3.1	9.3	3.9	3.9	1.4	13.2	99	0.9	83	80	2.6	0.64	17.5	2.5		
Funks G-711AA	99.6	5.1	5.4	4.0	4.0	1.2	13.0	99	1.2	95	100	1.6	0.88	21.2	0.0		
McCurdy M305	99.3	.9	4.3	4.0	4.0	1.3	12.1	100	1.3	90	80	3.0	0.61	13.9	8.3		
Funks G-580W	98.7	4.6	6.6	3.4	3.4	1.3	12.7	99	1.1	88	83	2.6	0.68	25.7	2.9		
Pioneer 3037 (9187)	98.6	2.6	3.5	3.9	3.9	1.4	12.8	98	1.3	100	93	2.6	0.70	28.9	5.3		
Funks G-707	97.4	4.5	5.9	3.7	3.7	1.3	13.3	100	1.1	88	88	2.1	0.78	27.5	5.0		
Dixie 22	97.4	6.4	2.4	4.3	4.3	1.2	13.1	98	1.2	90	75	3.2	0.62	13.5	8.1		
Coker 67	96.8	3.7	3.7	3.9	3.9	1.7	13.4	98	0.8	73	95	2.9	0.58	27.2	3.0		
McCurdy M310	95.7	8.5	9.6	4.6	4.6	1.4	12.5	99	0.8	70	78	3.6	0.55	20.0	0.0		
McCurdy M97	92.8	5.6	6.1	3.7	3.7	1.1	11.6	96	1.4	100	95	2.7	0.75	24.3	10.8		
McCurdy 999	89.9	5.9	9.2	3.7	3.7	1.1	12.0	100	1.0	80	90	3.2	0.56	16.2	2.7		
McNair 304A	89.7	4.4	3.4	3.3	3.3	1.1	13.1	100	1.0	85	83	2.9	0.66	28.6	14.3		
Embro Low Boy	86.8	2.1	5.3	3.7	3.7	1.3	13.0	98	1.0	85	80	3.3	0.62	19.5	0.0		
Mean	104.0	6.3	4.7	4.1	4.1	1.4	12.8	99	1.1	86	82	2.8	0.66	23.7	6.8		

<sup>1</sup>Penetration from tip of ear. <sup>2</sup>Pink corn worm. <sup>3</sup>Extension beyond tip of ear. <sup>4</sup>Diameter of silk channel at tip of ear. <sup>5</sup>South West corn borer. Insect notes from State College only.

Summary performance of the main hybrid tests in Area 4 (Yazoo City, Raymond, and Newton), 1963.

Hybrid	Acre yield	Lodging		Stalk	Ear ht.	Ears per plant		Moist in grain	Stand	Penetration <sup>1</sup>	Earworm		P.C.W. <sup>2</sup> Ears infested	Husk Extension <sup>3</sup>	Tightness <sup>4</sup>
		Root %	%			No.	%				In.	%			
Dixie 82	68.5	1.1	11.2	3.7	1.5	10.3	82	1.1	87	100	2.8	.70			
Dixie 55	68.2	1.6	13.3	3.7	1.5	9.5	93	1.1	83	100	2.8	.67			
Delta 9907 (Exp.)	66.3	.7	6.2	3.3	1.5	9.7	93	1.2	90	100	2.9	.69			
Dixie 18	65.6	.3	17.6	3.8	1.4	10.3	91	1.3	84	100	2.5	.73			
Funks G-14486	65.4	3.0	4.3	3.8	1.4	10.2	89	1.0	88	100	2.3	.79			
Riemers 308	65.4	.3	3.0	3.8	1.4	10.3	90	1.1	94	100	2.9	.67			
Funks G-745	65.0	5.2	10.8	3.6	1.3	10.2	92	1.0	83	99	2.3	.77			
Miss. 0002 (Exp.)	64.5	.3	9.4	3.5	1.4	9.5	92	1.1	84	100	2.8	.69			
Funks G-795W	64.4	1.3	12.3	3.0	1.4	10.0	89	1.2	88	100	2.4	.77			
Embro Jarvis L	62.1	.3	12.0	3.2	1.2	9.6	92	1.7	82	100	2.1	.77			
McCurdy M310	62.1	3.3	15.8	3.7	1.1	9.5	84	1.0	89	99	2.6	.70			
McCurdy 1003C	59.6	5.0	16.9	3.8	1.2	9.7	92	1.2	84	99	2.8	.68			
McNair 425	59.2	3.7	11.0	3.3	1.4	10.1	90	1.2	93	100	2.4	.76			
DeKalb 1213	58.8	1.0	9.0	4.0	1.3	10.3	93	1.0	78	100	2.5	.73			
NC 288	58.8	.7	7.7	3.4	1.2	9.4	84	1.3	95	100	2.3	.76			
Greenwood 471	58.3	7.3	9.2	3.4	1.2	10.2	87	1.2	92	100	2.7	.72			
McCurdy M307	56.9	1.4	7.7	3.8	1.2	10.0	87	1.0	81	100	2.8	.68			
*Pion 3048 (8218)	56.4	.3	10.3	3.1	1.1	9.6	91	1.2	94	100	2.4	.67			
DeKalb 1212	55.2	.7	7.2	3.8	1.1	9.9	90	1.4	82	100	2.6	.72			
Coker 67	54.4	0.0	6.7	3.2	1.4	10.1	93	.8	75	100	2.8	.63			
Embro 256CP	54.1	0.0	9.4	3.5	1.2	10.3	86	.9	91	100	2.4	.76			
Embro Low Bow	53.7	.8	14.0	3.1	1.2	9.7	82	1.1	72	100	2.9	.63			
*Pion 309B	53.3	1.3	5.2	3.0	1.1	9.9	89	1.1	88	100	2.7	.75			
Funks G-732	53.2	1.0	6.5	3.2	1.3	10.1	88	1.5	87	100	2.1	.83			
Coker 811A	52.9	1.0	5.2	3.3	1.5	10.2	87	.9	76	99	3.3	.60			
Dixie 22	52.7	.7	9.7	3.7	1.1	9.9	87	1.3	90	100	2.5	.78			
Coker 71	52.0	1.5	6.3	3.4	1.4	10.1	90	.8	82	100	2.4	.68			
*Pion 3037 (9187)	52.0	0.0	7.6	3.1	1.3	9.7	91	1.0	86	100	2.5	.73			
McNair 304A	49.2	1.0	7.7	2.7	1.0	9.9	84	1.6	82	100	2.9	.71			
McCurdy M301-1	44.8	4.6	16.6	3.5	1.1	9.7	87	1.1	83	99	2.7	.72			
Mean	58.6	1.6	9.9	3.5	1.3	9.9	89	1.2	86	100	2.6	0.70			

\*Pioneer

Insect notes from Raymond and Newton, except penetration from 3 locations.

<sup>1</sup>Penetration from tip of ear. <sup>2</sup>Pink corn worm. <sup>3</sup>Extension beyond tip of ear. <sup>4</sup>Diameter of silk channel at tip of ear



Summary performance of the main hybrid tests in Area 5 (Poplarville and Tylertown), 1963.

Hybrid	Acre yield	Lodging		Ear ht.	Ears per plant	Moist		Stand %	Earworm		P.C.W. <sup>2</sup> Ears infested %	Husk	
		Root %	Stalk %			Penetration <sup>1</sup>	Ears infested %		Extinction <sup>3</sup>	Tightness <sup>4</sup>			
Funks G-795W	38.9	.9	1.8	3.2	1.0	10.6	94	1.5	100	30	2.4	0.77	
Pioneer 3048 (8218)	36.4	0.0	1.9	3.7	.9	10.4	87	1.7	97	60	3.0	0.61	
Dixie 55	36.1	1.4	.5	3.7	.9	10.3	88	1.2	97	37	2.5	0.71	
Pioneer 3037 (9187)	35.5	.5	2.2	3.7	1.0	10.6	88	1.9	93	50	2.0	0.82	
DeKalb 1212	34.4	0.0	1.8	4.0	.9	10.9	88	1.8	100	57	2.5	0.74	
Embro 260	33.3	1.0	3.2	3.7	1.0	10.4	80	1.1	80	73	2.7	0.61	
Miss. 8288 (Exp.)	33.2	0.0	.9	4.2	.9	10.2	93	1.7	80	80	3.0	0.64	
Funks G-745	31.5	0.0	.5	3.8	1.0	10.1	91	2.1	100	43	1.9	0.77	
Funks G-14486	31.4	.5	1.4	4.0	.9	10.2	91	1.3	87	60	2.2	0.73	
Funks G-740	30.7	.9	2.9	4.2	.9	10.6	90	1.4	87	50	2.8	0.63	
McNair 425	30.7	0.0	2.6	3.3	1.0	10.3	85	1.8	90	67	2.3	0.72	
Miss. 6002 (Exp.)	29.9	0.0	1.0	3.9	.9	9.8	90	1.4	97	53	3.2	0.60	
DeKalb 1213	29.7	.9	.9	4.3	.9	10.6	93	1.5	90	37	2.6	0.69	
Funks G-732	29.7	1.3	.5	3.6	.9	10.6	92	2.0	97	40	2.0	0.79	
Greenwood 471	29.6	0.0	.6	4.0	.9	10.5	81	1.6	93	70	3.2	0.62	
Dixie 18	29.0	0.0	1.5	4.0	.9	10.6	87	1.4	93	63	2.9	0.70	
Riemers 408	28.1	0.0	5.0	4.1	1.0	10.4	78	1.6	90	67	3.3	0.60	
Miss. 8484 (Exp.)	28.1	.9	3.6	4.3	1.0	10.4	88	1.6	90	50	3.3	0.62	
Embro Flint 1	27.6	.9	2.3	4.6	.8	10.9	92	1.0	87	77	2.5	0.60	
DeKalb 1225	26.9	1.8	1.4	4.1	.8	10.5	86	1.4	87	63	2.7	0.65	
Coker 71	25.7	0.0	1.4	4.0	.8	10.7	91	1.5	90	73	2.7	0.65	
Coker 811A	24.7	0.0	0.0	3.9	1.0	10.5	81	1.7	90	77	2.7	0.69	
Coker 67	24.1	0.0	.9	4.0	.8	10.5	89	1.6	93	70	2.5	0.67	
Coker 811	22.2	0.0	.5	3.8	.8	10.5	93	1.4	83	70	2.7	0.66	
Miss. 3001 (Exp.)	21.8	0.0	2.7	4.3	.8	10.1	85	1.7	93	53	2.7	0.69	
Mean	30.0	0.5	1.7	3.9	0.9	10.4	88	1.6	91	59	2.7	0.68	

<sup>1</sup>Inches from tip of ear. <sup>2</sup>Pink corn worm. <sup>3</sup>Inches beyond tip of ear. <sup>4</sup>Diameter of silk channel at tip of ear.

Insect data from Poplarville only.

Area 1, Corn yields at individual locations, 1963 and 3-year average.

Hybrid	Area Average	Holly Springs	Verona	Pontotoc (Ridge)	Pontotoc (Flatwoods)	3-year Average
			Bushels per acre			
Funk's G-795W	73.5	72.5	50.1	96.8	74.7	....
Embro Departure VIII	73.3	66.4	60.5	86.6	79.6	..
Miss. 6135 (Exp.)	71.2	73.9	41.1	96.4	73.3	81.9
Pioneer 509W	70.9	71.8	63.5	81.6	66.6	....
Delta 9907 (Exp.)	68.5	64.9	53.5	90.7	64.8	79.8
Dixie 55	68.3	65.4	43.4	94.1	70.2	80.1
Dixie 77	68.0	67.7	43.1	90.4	70.8	77.0
Pioneer 3037 (9187)	66.6	63.7	48.0	83.9	70.9	....
Embro Jarvis E	66.1	66.1	53.6	77.5	67.3	....
McCurdy M97	65.0	58.7	52.4	83.0	66.0	....
Pioneer 8224	64.6	59.8	43.9	87.4	67.2	....
Miss. 6133 (Exp.)	64.4	49.8	46.3	90.9	70.5	77.2
Pioneer 3048 (8218)	63.4	64.9	45.5	78.6	64.8	....
Pioneer 309B	63.2	60.0	50.4	80.0	62.5	76.5
DeKalb 1212	62.2	62.6	36.5	82.7	66.9	....
Stull's 111YA	61.1	64.0	31.8	78.8	69.8	....
Embro 222TA	60.7	56.0	45.4	76.1	65.4	....
Funk's G-580W	60.6	69.3	33.4	79.7	60.0	....
Funk's G-711AA	60.6	56.0	50.9	74.8	60.7	73.5
Pioneer 310	60.1	67.9	29.2	82.2	61.2	....
Stull's 500W	59.3	61.7	30.0	81.6	64.0	....
McCurdy 999	59.3	60.2	49.3	68.4	59.3	....
McCurdy 7 x 11	59.0	60.1	42.6	77.6	55.8	....
Dixie 22	59.0	61.6	27.6	80.0	66.6	75.5
McCurdy 972 x 7	58.3	63.7	37.4	72.5	59.5	....
McNair 304A	58.2	64.8	29.6	74.4	63.8	....
Funk's G-707	57.7	53.5	33.7	77.8	65.8	....
Embro Jarvis L	57.1	48.5	39.9	77.6	62.5	....
DeKalb 1213	55.3	47.7	28.7	79.8	64.9	....
Embro Low Boy	54.9	54.3	29.9	77.4	58.1	....
Mean	63.0	61.9	42.4	82.0	65.8	....
LSD, 5%	.....	13.1	12.4	10.9	8.9	..

## Area 3, Corn yields at individual locations, 1963 and 3-year average.

Hybrid	Area average	Bushels per acre		
		State College	Brooksville	3-year average
Dixie 82	130.4	120.5	140.3	103.7
Miss. 0002 (Exp.)	125.6	110.5	140.6	104.9
Dixie 55	122.6	115.4	129.8	99.3
Delta 9907 (Exp.)	121.1	115.1	127.0	-----
Funk's G-795W	121.0	109.1	132.9	102.4
Riemer's 305	118.3	109.8	126.8	-----
Funk's G-14486	111.3	103.2	119.4	-----
Pioneer 3048 (8218)	107.2	89.7	124.7	-----
Dixie 18	104.3	95.0	113.5	87.3
Funk's G-720	103.2	92.2	114.2	92.8
Funk's G-732	102.7	90.4	114.9	-----
Embryo Jarvis L	102.4	95.7	109.0	-----
DeKalb 1212	102.2	95.3	109.0	-----
McNair 425	102.0	89.6	114.4	-----
DeKalb 1213	101.6	98.4	104.8	-----
Pioneer 309B	101.4	93.0	109.8	90.9
Embryo 222TA	100.7	89.0	112.4	-----
Coker 911	100.2	83.5	116.8	86.5
Funk's G-711AA	99.6	82.7	116.5	-----
McCurdy M305	99.3	89.9	108.7	-----
Funk's G-580W	98.7	88.7	108.7	-----
Pioneer 3037 (9187)	98.6	90.7	106.5	-----
Funk's G-707	97.4	86.6	108.1	-----
Dixie 22	97.4	88.3	106.4	89.8
Coker 67	96.8	87.6	106.0	86.0
McCurdy M310	95.7	84.4	106.9	-----
McCurdy M97	92.8	83.4	102.2	-----
McCurdy 999	89.9	78.2	101.6	-----
McNair 304A	89.7	79.1	100.3	-----
Embryo Low Boy	86.8	81.9	91.7	-----
Mean	104.0	93.9	114.1	-----
LSD, 5%	-----	10.0	9.0	-----

## Area 4, Corn yields at individual locations, 1963 and 3-year average.

Hybrid	Area	Yazoo	Raymond		Newton	3-Year
	Average	City	Bushels per acre			Average
Dixie 82	68.5	85.9	54.8	64.8	72.9	
Dixie 55	68.2	94.1	47.3	63.1	70.4	
Delta 9907 (Exp.)	66.3	111.1	35.8	52.0	---	
Dixie 18	65.6	83.0	53.6	60.1	66.8	
Riemer's 308	65.4	92.8	36.6	66.9	---	
Funk's G-14486	65.4	91.3	43.7	61.2	---	
Funk's G-745	65.0	84.0	50.3	60.7	---	
Miss. 0002 (Exp.)	64.5	93.0	37.9	62.7	71.6	
Funk's G-795W	64.4	86.2	42.6	64.5	69.5	
Embryo Jarvis L	62.1	87.9	43.8	54.5	---	
McCurdy M310	62.1	90.0	46.4	50.0	---	
McCurdy 1003C	59.6	77.0	43.7	58.0	62.7	
McNair 425	59.2	74.7	39.5	63.3	---	
NC 288	58.8	81.1	39.1	56.3	65.5	
DeKalb 1213	58.8	71.2	44.7	60.4	---	
Greenwood 471	58.3	81.9	44.3	48.8	-----	
McCurdy M307	56.9	72.7	44.2	53.9	---	
Pioneer 3048 (8218)	56.4	85.7	32.8	50.6	---	
DeKalb 1212	55.2	83.8	31.2	50.7	---	
Coker 67	54.4	69.6	32.8	60.9	62.1	
Embryo 256CP	54.1	59.3	51.5	51.6	-----	
Embryo Low Boy	53.7	81.7	29.3	50.1	---	
Pioneer 309B	53.3	83.8	28.2	47.9	59.7	
Funk's G-732	53.2	76.3	30.0	53.3	---	
Coker 811A	52.9	69.2	33.1	56.4	---	
Dixie 22	52.7	66.5	36.4	55.2	60.2	
Coker 71	52.0	66.9	30.8	58.4	59.4	
Pioneer 3037 (9187)	52.0	69.2	40.9	46.0	---	
McNair 304A	49.2	62.5	40.4	44.6	---	
McCurdy M301-1	44.8	56.6	34.5	43.4	---	
Mean	58.6	80.1	40.0	55.7	---	
LSD, 5%	-----	18.1	11.6	13.2	-----	

## Area 5, Corn yields at individual locations, 1963 and 3-year average.

Hybrid	Area average	Poplarville	Tylertown	3-year average
	Bushels per acre			
Funk's G-795W	38.9	45.8	32.0	68.9
Pioneer 3048 (8218)	36.4	37.9	34.8	---
Dixie 55	36.1	39.8	32.3	63.3
Pioneer 3037 (9187)	35.5	36.5	34.4	---
DeKalb 1212	34.4	38.0	30.8	---
Embros 260	33.3	39.1	27.5	---
Miss. 8288 (Exp.)	33.2	27.3	39.1	68.2
Funk's G-745	31.5	36.3	26.6	62.4
Funk's G-14486	31.4	31.6	31.2	---
Funk's G-740	30.7	34.8	26.5	60.3
McNair 425	30.7	33.6	27.7	---
Miss. 6002 (Exp.)	29.9	29.2	30.5	62.3
DeKalb 1213	29.7	30.1	29.2	---
Funk's G-732	29.7	29.6	29.7	---
Greenwood 471	29.6	30.5	28.6	---
Dixie 18	29.0	33.1	24.8	64.0
Riemer's 408	28.1	26.1	30.0	---
Miss. 8484 (Exp.)	28.1	30.0	26.1	68.8
Embros Flint 1	27.6	27.9	27.2	---
DeKalb 1225	26.9	26.3	27.4	62.6
Coker 71	25.7	34.8	16.5	55.9
Coker 811A	24.7	29.9	19.4	---
Coker 67	24.1	33.1	15.0	64.6
Coker 811	22.2	28.7	15.6	62.7
Miss. 3001 (Exp.)	21.8	18.1	25.5	---
Mean	30.0	32.4	27.5	---
LSD, 5%	---	7.0	6.6	---