

# MISSISSIPPI Corn for Grain *and Grain Sorghum*



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## HYBRID TRIALS, 2004

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**Experiment Station**  
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This Mississippi Agricultural and Forestry Experiment Station information bulletin is a summary of research conducted under project number MIS 1414 at locations shown on the map on the second page. It is intended for colleagues, cooperators, and sponsors. The interpretation of data presented in this report may change after additional experimentation. Information included is not to be construed as a recommendation for use or as an endorsement of a specific product by Mississippi State University or the Mississippi Agricultural and Forestry Experiment Station.

This report contains data generated as part of the Mississippi Agricultural and Forestry Experiment Station research program. Joint sponsorship by the organizations listed on pages 3-4 is gratefully acknowledged.

Trade names of commercial products used in this report are included only for clarity and understanding. All available names (i.e., trade names, chemical names, etc.) of products used in this research project are listed on pages 3-4.

# Mississippi Corn for Grain and Grain Sorghum Hybrid Trials, 2004

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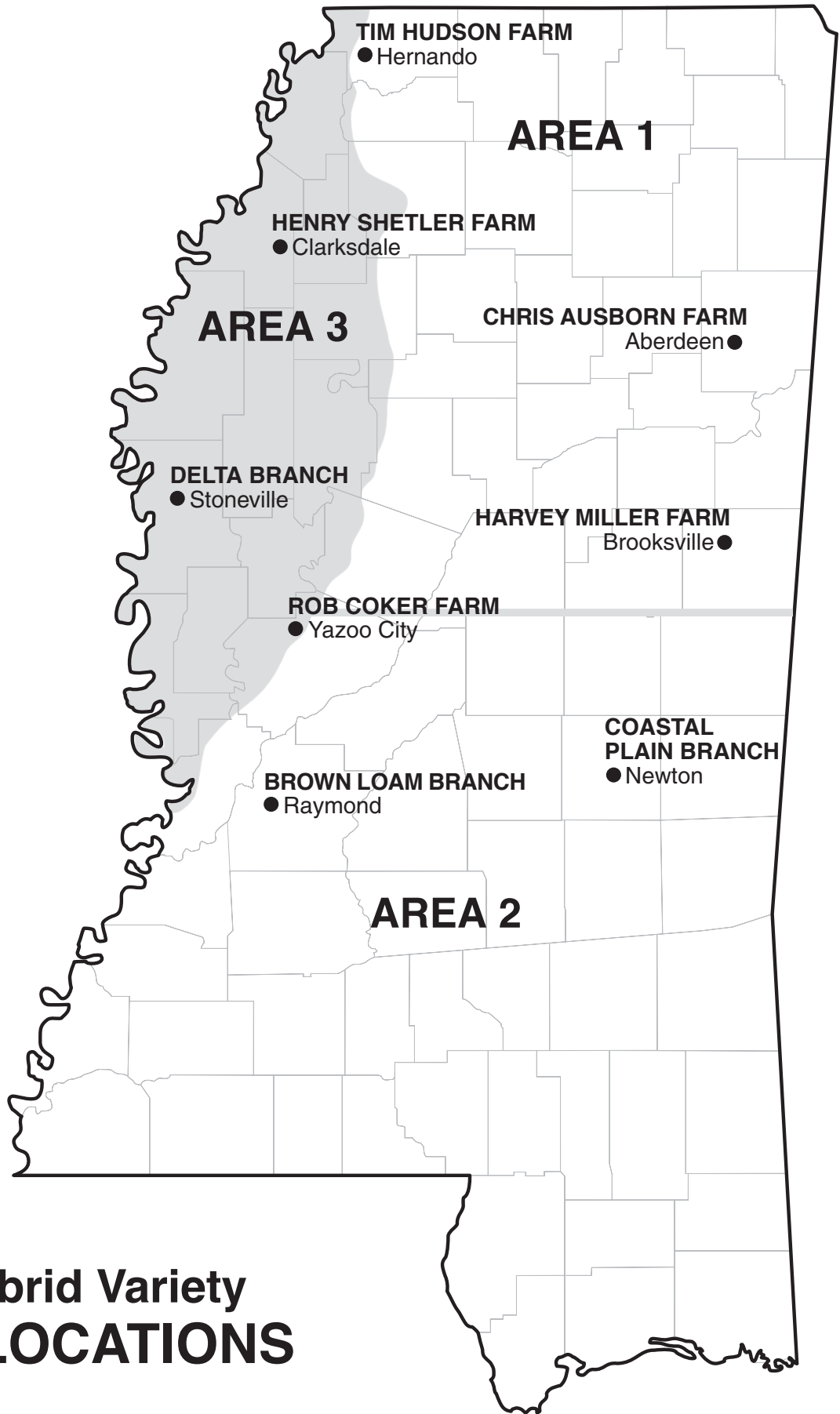
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# Corn Hybrid Variety TEST LOCATIONS

# Mississippi Corn for Grain and Grain Sorghum Hybrid Trials, 2004

## PROCEDURE

Trials were conducted on Experiment Station land or on grower-cooperator fields in three geographical areas in Mississippi: Area I, located north of Interstate 20 (three dryland locations); Area II, located south of Interstate 20 (two dryland locations); and Area III, located in the Delta region of Mississippi (two irrigated locations and one nonirrigated location). Commercial seed companies were given the opportunity to enter hybrids in Area I, Area II, or Area III.

Plots consisted of two 30-inch rows, 13.33 feet long. Weeds were controlled by cultivation and/or herbicides. Only herbicides currently registered for use on corn were used in these studies, with strict adherence to all label instructions. All hybrids were treated with Poncho 250 or Cruiser for insect control. Experimental

design was a randomized complete block with four replications at each location.

Hybrids were separated into two maturity groups based upon relative maturity as specified by the sponsoring companies. Those hybrids with a relative maturity of 115 days or less were considered to be early maturing, while those listed requiring 116 days or more to mature were considered late maturing.

Seed of all entries were supplied by participating companies. All seed were packaged for planting at seeding rates suggested by the participating company and planted with a cone planter. Fertilizer was applied according to soil test recommendations. Plots in Areas I and II were grown in dryland conditions, and plots in Area III, except Yazoo City, were irrigated, as necessary.

## VARIABLES MEASURED IN THE CORN HYBRID TESTS

**Yield:** An Almaco SPC 20 plot combine was used to harvest the total area of each plot. Harvested grain was weighed, moisture was determined, and yields were converted to bushels per acre at 15.5 percent moisture.

**Stalk Lodging:** Stalk lodging is the percentage of plants, based on actual counts of

all plants in each plot, that were broken below the upper ear-bearing node at harvest.

**Ear Height:** Ear height is the distance from the soil to the highest ear-bearing node.

**Harvest Population:** Harvest population is a measure of the number of plants per acre, based on actual stand counts.

# USE OF DATA TABLES AND SUMMARY STATISTICS

The yield potential of a given variety cannot be measured with complete accuracy. Consequently, replicate plots of all varieties are evaluated for yield, and the yield of a given variety is estimated as the mean of all replicate plots of that variety. Yields vary somewhat from one replicate plot to another, which introduces a certain degree of error to the estimation of yield potential. As a result, although the mean yields of some varieties are numerically different, the two varieties may not be significantly different from each other within the range of natural variation. That is, the ability to measure yield is not precise enough to determine what the small differences are, other than what might be observed purely by chance.

The least significant difference (LSD) is an estimate of the smallest difference between two varieties that can be declared to be the result of something other than random variation in a particular trial. Consider the following example for a given trial:

Variety	Yield
A .....	90 bu/A
B .....	85 bu/A
C .....	81 bu/A
LSD .....	7 bu/A

The difference between variety A and variety B is 5 bu/A (i.e., 90 - 85 = 5). This difference is smaller than the LSD (7 bu/A). Consequently, we would conclude

that variety A and variety B have the same yield potential, since we are unable to say that the observed difference did not occur purely due to chance. However, the difference between variety A and variety C is 9 bu/A (i.e., 90 - 81 = 9), which is larger than the LSD (7 bu/A). We would therefore conclude that the yield potential of variety A is superior to that of variety C.

The coefficient of variation (CV) is a measure of the relative precision of a given trial and is used to compare the relative precision of different trials. The CV is generally considered an estimate of the amount of unexplained variation in a given trial. This unexplained variation can be the result of variation between plots with respect to soil type, fertility, insects, diseases, moisture stress, etc. Overall, as the CV increases, the precision of a given trial decreases.

The coefficient of determination ( $R^2$ ) is another measure of the level of precision in a trial and is also used to compare the relative precision of different trials. The  $R^2$  is a measure of the amount of variation that is explained, or accounted for, in a given trial. For example, an  $R^2$  value of 90 percent indicates that 90 percent of the observed variation in the trial has been accounted for in the trial, with the remaining 10 percent being unaccounted for. The higher the  $R^2$  value, the more precise the trial. The  $R^2$  is generally considered a better measure of precision than the CV for comparison of different trials.

**Table 1. Location, number of entries, planting dates, and harvest dates for 2004 corn hybrid trials.**

Location	Maturity <sup>1</sup>	No. of entries	Planting date	Harvest date
<b>Area I</b>				
<b>Tim Hudson Farm</b>	Early	66	April 1	September 14
<i>(Hernando)</i>	Late	37	April 1	September 14
<b>Harvey Miller Farm</b>	Early	66	March 22	September 8
<i>(Brooksville)</i>	Late	37	March 22	September 8
<b>Chris Ausborn Farm</b>	Early	66	March 31	September 3
<i>(Aberdeen)</i>	Late	37	March 31	September 3
<b>Area II</b>				
<b>Coastal Plain Branch</b>	Early	45	March 19	September 1
<i>(Newton)</i>	Late	21	March 19	September 1
<b>Brown Loam Branch</b>	Early	45	March 30	September 2
<i>(Raymond)</i>	Late	21	March 30	September 2
<b>Area III</b>				
<b>Rob Coker Farm</b>	Early	75	March 23	September 13
<i>(Yazoo City)</i>	Late	47	March 23	September 13
<b>Henry Shetler Farm</b>	Early	75	March 26	August 26
<i>(Clarksdale)</i>	Late	47	March 26	August 26
<b>Delta Branch</b>	Early	75	March 17	August 27
<i>(Stoneville)</i>	Late	47	March 17	August 27

<sup>1</sup>Early maturity = 115 days or less; late maturity = 116 days or more.

**Table 2. Characteristics provided by sponsoring companies for corn hybrids entered in the 2004 Mississippi variety trials.**

Company	Hybrid	Trait <sup>1</sup>	Planting rate (x1000)	Days to maturity	Grain texture <sup>2</sup>	MDMV resistance <sup>3</sup>	MCDV resistance <sup>3</sup>
Bell Southern Hybrids P.O. Box 178, Hwy. 42 Cherry Valley, AR 72324 870-328-7222	Belle 1533Y		28/32	112	-	-	-
	Belle 2222RY		28/32	113	-	-	-
	Belle 1430Y		28/32	114	-	-	-
	Belle 1540RY		28/32	115	-	-	-
	Belle BEX R001		28/32	114	-	-	-
	Belle 1830Y		28/32	115	-	-	-
	Belle BEX Y004		28/32	112	-	-	-
	Belle BEX RY001		28/32	114	-	-	-
	Belle BEX Y005		28/32	111	-	-	-
	Belle BEX C004		28/32	113	-	-	-
	Belle 1515C		28/32	115	-	-	-
	Belle 1545RY		28/32	113	-	-	-
	Belle 1525R		28/32	115	-	-	-
	Belle BEX Y006		28/32	115	-	-	-
	Belle BEX R004		28/32	114	-	-	-
Belle 1210C		28/32	112	-	-	-	
Croplan Genetics P.O. Box 64281 St. Paul, MN 55164 662-873-7351	631 RR/Bt		28/32	110	M	S	S
	691Bt/LL		28/32	112	M	S	S
	699 CL/Bt/LL		28/32	112	M	S	S
	818 RR/Bt		28/32	117	M	S	S
	872 RR		28/32	120	M	S	S
FFR Seed 969 Cloverleaf Drive Southaven, MS 38671 901-652-0903	736Bt	BtYG	28/32	112	M	MS	MS
	748		28/32	115	MH	MR	MR
	749RR		28/32	115			
	833RR		28/32	117			
	835Bt		28/32	117			
	849CL		28/32	118	MS	MR	MR
900BT	BtYG	28/32	119	MS	S	S	
Garst Seed Co. 761 Walnut Knoll Lane Suite 200 Cordova, TN 38018 901-351-7340	8288		30	117	H	-	-
	8230IT	IT	28	118	M	MR	MR
	8204RR		28	116	MH	-	-
	8292YG1		28/30	117	H	-	-
	8200YG1	Bt	28/30	119	MH	-	-
Genesis Brand Seed P.O. Box 21085 Lansing, MI 48909 517-887-1684	Genesis 3214YG	YG	32	114	-	-	-
	Genesis 2A16YG	YG	32	116	-	-	-
	Genesis 2A16RR	RR	32	116	-	-	-
	Genesis 4C16RR/YGCB		32	116	-	-	-
	Genesis 3215RR	RR	32	115	-	-	-
	Genesis 2D16YGCB		32	116	-	-	-
	Genesis 3215C		32	115	-	-	-
	Genesis 2E15RR/YGCB		32	115	-	-	-
	Genesis 2C15YGCB		32	115	-	-	-
Genesis 2E15YGCB		32	115	-	-	-	
Golden Acres Genetics P.O. Box 579 Buchanan Dam, TX 78609 512-793-5205	GA 2828RR	RR	32	115	H	MS	MS
	GA 2831RRB		32	115	H	MS	MS
	GA 2841RRB		32	117	H	MS	MS
	GA X6420BT		32	117	H	MS	MS
Monsanto Company 800 N. Lindbergh Blvd. St. Louis, MO 63167 314-694-1000	DKC60-19	RR2/YGCB	28/32	110	MH	-	-
	DKC61-45	RR2/YGCB	28/32	111	MH	-	-
	DKC63-24	RR2/YGCB	28/32	113	MH	-	-
	DKC63-52	RR2/YGCB	28/32	113	MH	-	-
	DKC63-81	RR2/YGCB	28/32	113	MH	-	-
	DKC64-11	RR2/YGCB	28/32	114	MH	-	-
	DKC69-71	RR2/YGCB	28/32	119	H	S	S
	DKC69-72	RR2	28/32	119	H	MS	MS
	NB6503		28/32	115	MH	-	-
	NA6606EZA3	YGCB	28/32	116	MH	-	-
	NB6602EZA1	YGCB	28/32	116	MH	-	-
	NA6904		28/32	119	MH	-	-
	NB6502		28/32	115			
	NB6703		28/32	117			
NB6802		28/32	118				
Pioneer Hi-Bred Intl. 7501 Memorial Pkwy. SW Suite 205 Huntsville, AL 35802 800-331-2475	33V15		28	114	H	MS	MS
	33M54		28	114	H	S	S
	32R25		24	116	M	MS	MS
	31G98		28	117	-	MS	MS
	31R88		24	120	-	MS	MS
	32D99		28	118	M	MS	MS
	31B13	YG	24	119	-	MS	MS
	34B20		32	110	M	S	S
	31R87		24	120	M	MS	MS
	31G66		28	118	H	MS	MS
	31G97		28	117	M	MS	MS

<sup>1</sup>RR = Incorporates Roundup Ready Technology; IT, CL, IMI = Incorporates CLEARFIELD Technology; Bt, YG = Corn Borer Protection Technology.

<sup>2</sup>M = Medium, H = Hard, R = Resistance to weevil is good, S = Soft.

<sup>3</sup>MDMV = Maize Dwarf Mosaic Virus; MCDV = Maize Chlorotic Dwarf Virus (corn stunt); S = Susceptible; R = Resistant, MR = Moderately Resistant; & MS = Moderately Susceptible.

**Table 2 (continued). Characteristics provided by sponsoring companies for corn hybrids entered in the 2004 Mississippi variety trials.**

Company	Hybrid	Trait <sup>1</sup>	Planting rate (x1000)	Days to maturity	Grain texture <sup>2</sup>	MDMV resistance <sup>3</sup>	MCDV resistance <sup>3</sup>
Royster-Clark, Inc. 717 Robinson Rd SE Washington C.H., OH 43160 740-869-2181	V56Y51		28	115	H	MR	MR
	V58YR2		28	118	M	-	-
	EX284001		28	120	M	-	-
Syngenta Seed 100 Sangria Drive Hattiesburg, MS 39402 601-264-2878	N82-A7		28/32	118	M	-	-
	N83-N5		28/32	118	M	-	-
	N83-Z8	Bt	28/32	119	M	-	-
Terral Seed Inc. P.O. Box 826 Lake Providence, LA 71254 318-559-2840	TV2130		29	113	MH	MR	-
	TV2140		27	114	H	-	-
	TV2160Bt	Bt	28	115	H	MR	-
	TV26BR10n	RR/Bt	32	115	MH	-	-
	TV24R10	RR	32	114	H	-	-
	TV23R15n	RR	29	115	MH	-	-
	TV2140nRR	RR	27	114	H	-	-
	TV25B30	Bt	30	115	H	-	-
	TV26B23	Bt	30	116	H	-	-
	TV23R31		28	113	MH	-	-
	TV25R31		28	113	H	-	-
	TV26BR41		30	114	MH	-	-
	TVX27B401		28	116	H	-	-
	TVX24R401		28	114	H	-	-
	TVX25BR013	RR/Bt	32	115	MH	-	-
	TVX23R401		28	113	MH	-	-
	TV25R41		28	115	H	-	-
	TVX24B402		32	114	VH	-	-
	TV26B82		28	115	H	-	-
	TV25BR23		30	115	MR	-	-
	TV26B72		28	115	MH	-	-
	TVX25B404		28	115	H	-	-
	TVX24B403		32	114	MH	-	-
	TVX24BR401		32	114	MH	-	-
	TVX25B403		30	115	H	-	-
	TVX26B404		30	115	MH	-	-
TVX23R404		32	113	H	-	-	
Triumph Seed Co., Inc. P.O. Box 1050 Ralls, TX 79357 800-530-4789	1866Bt	Bt	32	118	H(R)	MR	MR
	1416Bt	BtRR	28	114	M	-	-
UAP MidSouth 57 Germantown Court Suite 200 Cordova, TN 38018 318-396-7037	DG5515		32	117	H	M	-
	DG5516		32	115	H	MR	MR
	DG5545Bt		32	114	H	-	-
	DG5528Bt	Bt	32	115	H	S	S
	DG58K15	RR	32	117	H	MR	MR
	DG57K66	RR	32	115	H	MR	MR
	DG58K22	RR	32	118	H	-	-
	DG57P35	RR/Bt	32	115	H	S	S
	DG58P59		32	117	H	-	-
	CX03118		32	118	H	-	-
	CX03218	Bt	32	118	H	-	-
	CX03318	Bt	32	118	H	-	-
	CX03419		32	119	H	-	-
UniSouth Genetics, Inc. 2640-C Nolensville Rd Nashville, TN 37211 800-505-3133	BT 4220		32	117	H	MR	MR
	BT 1150		32	115	M	MS	MS
Unity Seeds 107 Fallon St. Kentland, IN 47751 219-474-5810	715Bt		32	115	M	MR	MR
	6296		32	114	M	MR	MR

<sup>1</sup>RR = Incorporates Roundup Ready Technology; IT, CL, IMI = Incorporates CLEARFIELD Technology; Bt, YG = Corn Borer Protection Technology.  
<sup>2</sup>M = Medium, H = Hard, R = Resistance to weevil is good, S = Soft.

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# TIM HUDSON FARM, HERNANDO

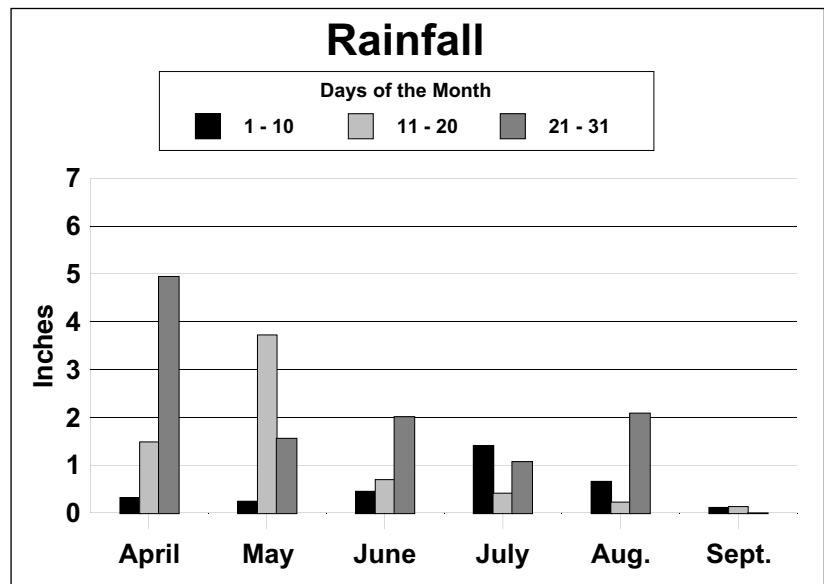
## Crop Summary

The test came up to an excellent stand. There were good growing conditions for most of the growing season. Southern rust infected plants in some spots in the field as corn neared maturity. Some corn borers were also present at this location.

Soil type .....	Collins silt loam
Soil pH .....	6.2
Soil fertility .....	P=H; K=H
Fertilizer added .....	Sidedress — N @ 200 lb/A (Anhydrous Ammonia)
Herbicide application .....	Preemergence — Atrazine @ 2 qt/A + Gramoxone @ 1 pt/A
Previous crop .....	Soybeans
Planting date .....	April 1
Harvest date .....	September 14

## Rainfall Summary

	Inches
April .....	6.76
May .....	5.54
June .....	3.16
July .....	2.90
August .....	2.96
September .....	0.25
<b>Total .....</b>	<b>21.57</b>



**Table 3. Characteristics of 66 early-maturing corn hybrids grown without irrigation on a Collins silt loam soil in Hernando, DeSoto County, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Stalk lodging</b>	<b>Ear height</b>	<b>Moisture content</b>	<b>Harvested stand (x1000)</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Genesis	3214YG	200.8	-	-	0	41	15.7	34
Genesis	3215RR	198.6	-	-	0	28	15.3	33
Belle	BEX R001	198.5	-	-	1	46	15.4	27
Golden Acres	GA 2828RR	197.6	-	-	1	30	15.2	33
Belle	BEX RY001	191.8	-	-	0	44	15.5	30
Golden Acres	2831RRB	190.5	-	-	0	29	15.5	29
Terral	TVX25B403	186.7	-	-	0	49	15.0	26
Terral	TVX24B403	186.6	-	-	1	52	15.3	30
Belle	BEX Y006	186.5	-	-	0	51	15.6	29
Belle	BEX Y005	186.1	-	-	0	46	15.5	27
Belle	Belle 1430Y	184.9	184.1	-	0	51	15.4	29
Terral	TV25R31	184.6	-	-	1	43	15.3	29
Monsanto	NB6502	183.0	-	-	1	45	15.6	30
Terral	TV26BR10n	182.5	189.6	198.5	0	43	15.1	30
Terral	TV23R15n	180.7	186.0	193.0	1	48	15.4	30
DEKALB	DKC63-81	180.6	-	-	0	38	15.3	28
Belle	Belle 2222RY	179.7	-	-	0	41	15.3	29
Belle	BEX R004	178.9	-	-	1	44	14.8	27
Croplan Genetics	691 BT/LL	178.0	-	-	0	40	15.6	28
Belle	Belle 1545RY	177.6	-	-	0	40	15.1	28
Pioneer	33M54	177.5	187.0	-	1	46	15.4	29
Terral	TV26BR41	177.3	-	-	0	43	15.3	32
Belle	BEX Y004	177.0	-	-	0	42	15.1	28
Belle	BEX C004	176.3	-	-	2	42	15.1	28
Belle	Belle 1830Y	176.0	-	-	0	45	15.3	31
Dyna-Gro	DG57P35	175.6	183.5	193.6	0	37	15.4	31
Terral	TV26B72	174.6	-	-	0	50	15.1	28
Terral	TVX23R404	174.5	-	-	1	43	15.4	28
Terral	TV26B82	174.5	-	-	0	48	15.3	27
DEKALB	DKC64-11 (RR2/YGCB)	174.4	174.6	185.3	0	42	15.6	30
Terral	TVX24R401	173.8	-	-	0	48	15.3	29
Dyna-Gro	DG57K66	172.9	180.2	183.6	2	46	15.5	31
Terral	TV24R10	172.8	181.3	188.2	1	48	15.4	35
Belle	Belle 1540RY	172.7	-	-	0	41	15.9	29
Terral	TVX24B402	172.6	-	-	0	54	15.3	31
Terral	TVX24BR401	172.5	-	-	0	51	15.4	30
Croplan Genetics	631 RR/BT	172.4	-	-	0	39	15.3	28
Croplan Genetics	699 CL/BT/LL	172.2	-	-	0	43	15.2	31
Belle	Belle 1525R	172.1	-	-	2	48	15.0	30
Belle	Belle 1533Y	171.7	-	-	0	39	15.5	28
FFR	749RR	170.4	-	-	1	31	15.3	30
Terral	TVX25B404	170.3	-	-	0	50	15.3	31
Dyna Gro	5545Bt	170.0	-	-	1	42	15.3	31
Terral	TV25B30	169.3	178.2	-	0	46	15.8	31
Terral	TV2160Bt	167.8	179.3	191.2	0	49	15.5	30
Terral	TV2140	167.6	177.4	190.0	0	51	15.1	26
Terral	TVX25BR013	166.8	181.1	-	0	50	15.4	31
DEKALB	DKC61-45	166.7	-	-	0	40	15.3	29
Terral	TV2140nRR	165.6	169.3	186.1	0	47	15.5	30
DEKALB	DKC63-52	165.5	-	-	0	42	15.3	29
Belle	Belle 1210C	164.8	-	-	1	49	15.4	28
DEKALB	DKC60-19	161.9	-	-	0	29	15.1	32
Belle	Belle 1515C	161.3	-	-	2	47	15.6	30
FFR	736Bt	161.3	178.3	196.1	0	42	15.2	27
Terral	TV25R41	160.6	-	-	0	48	15.1	29
Terral	TVX23R401	160.1	-	-	0	48	15.0	28
Terral	TVX26B404	160.0	-	-	0	35	15.5	33
Pioneer	33V15	159.1	164.1	-	3	43	15.7	29
Dyna-Gro	5528BT	158.8	163.6	-	0	45	15.2	31
DEKALB	DKC63-24	156.7	-	-	0	49	15.4	30
Terral	TV2130	155.9	180.2	189.6	1	49	15.3	28
Terral	TV23R31	153.8	-	-	4	48	15.6	28
FFR	748	151.7	160.7	-	2	46	15.2	29
Monsanto	NB6503	150.4	-	-	0	47	15.3	29
Pioneer	34B20	147.3	-	-	1	39	15.6	32
Terral	TV25BR23	139.3	161.6	-	1	44	15.3	31
<b>Overall mean</b>		<b>172.5</b>	<b>176.8</b>	<b>190.4</b>				
<b>LSD (.10)</b>		<b>26.3</b>	<b>17.4</b>	<b>13.3</b>				
<b>Error degrees of freedom</b>		<b>184</b>	<b>103</b>	<b>96</b>				
<b>CV (%)</b>		<b>12.7</b>	<b>11.6</b>	<b>10.5</b>				
<b>R<sup>2</sup> (%)</b>		<b>33</b>	<b>43</b>	<b>59</b>				

<sup>1</sup>Planted April 1; harvested September 14.

**Table 4. Characteristics of 37 late-maturing corn hybrids grown without irrigation on a Collins silt loam soil in Hernando, DeSoto County, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Stalk lodging</b>	<b>Ear height</b>	<b>Moisture content</b>	<b>Harvested stand (x1000)</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Dyna Gro	CX03118	199.1	-	-	0	48	16.0	32
DEKALB	DKC69-72 (RR2)	197.9	187.0	-	0	42	16.2	30
Garst	8292YG1	197.0	-	-	0	42	15.9	29
Dyna-Gro	58P59	195.4	-	-	0	39	15.4	31
Monsanto	NA6606EZA3	190.1	-	-	0	41	15.0	33
Dyna Gro	CX03318	189.9	-	-	1	43	16.0	33
FFR	835BT	187.0	-	-	1	35	15.7	28
NK Brand	N83-Z8 (Bt)	186.4	189.4	203.7	0	42	16.3	29
Genesis	2A16RR	186.0	168.3	-	1	40	16.0	34
Monsanto	NB6802	185.3	-	-	0	40	15.6	28
Golden Acres	2841RRB	183.9	-	-	0	36	15.3	30
Garst	8230IT	183.8	173.4	184.2	1	39	16.2	28
Pioneer	32R25	182.6	190.1	204.5	1	46	15.5	27
Pioneer	31G97	182.0	-	-	0	47	15.0	30
NK Brand	N82-A7	182.0	-	-	0	50	16.4	27
FFR	900BT	180.1	189.7	-	0	39	15.4	29
NK	N83-N5	179.3	162.4	-	1	46	15.9	27
Monsanto	NB6703	177.4	-	-	1	42	16.0	32
Monsanto	NB6602EZA1	177.0	-	-	1	36	15.7	29
Terral	TV26B23	176.9	180.2	-	0	42	16.2	34
Croplan Genetics	818 RR/BT	175.2	-	-	0	37	16.1	31
Pioneer	31G98	174.7	-	-	1	45	14.8	28
Pioneer	31B13	174.7	189.2	205.0	0	41	16.0	27
Terral	TVX27B401	174.0	-	-	0	50	15.6	30
Pioneer	32D99	173.7	179.2	201.5	2	44	16.4	30
FFR	833RR	173.7	-	-	0	43	15.4	28
Pioneer	31G66	172.2	180.2	-	1	38	15.7	28
Genesis	2A16YG	171.5	178.5	-	0	40	15.7	33
FFR	849CL	171.4	181.4	-	0	44	16.3	21
Pioneer	31R88	171.4	177.0	192.5	2	42	15.9	26
DEKALB	DKC69-71 (RR2/YGCB)	170.7	186.2	-	0	41	16.5	30
Dyna Gro	CX03218	170.5	-	-	1	44	16.5	30
Garst	8200YG1	169.9	179.2	-	0	46	16.8	29
Golden Acres	X6420BT	169.2	-	-	0	43	16.8	22
Pioneer	31R87	166.9	-	-	0	42	15.7	26
Monsanto	NA6904	163.9	-	-	0	41	16.3	27
Croplan Genetics	872 RR	146.0	-	-	1	36	16.7	28
<b>Overall mean</b>		<b>178.60</b>	<b>180.6</b>	<b>198.5</b>				
<b>LSD (.10)</b>		<b>24.6</b>	<b>20.8</b>	<b>18.0</b>				
<b>Error degrees of freedom</b>		<b>108</b>	<b>88</b>	<b>49</b>				
<b>CV (%)</b>		<b>11.7</b>	<b>13.7</b>	<b>13.6</b>				
<b>R<sup>2</sup> (%)</b>		<b>26</b>	<b>36</b>	<b>60</b>				

<sup>1</sup>Planted April 1; harvested September 14.

# HARVEY MILLER FARM, BROOKSVILLE

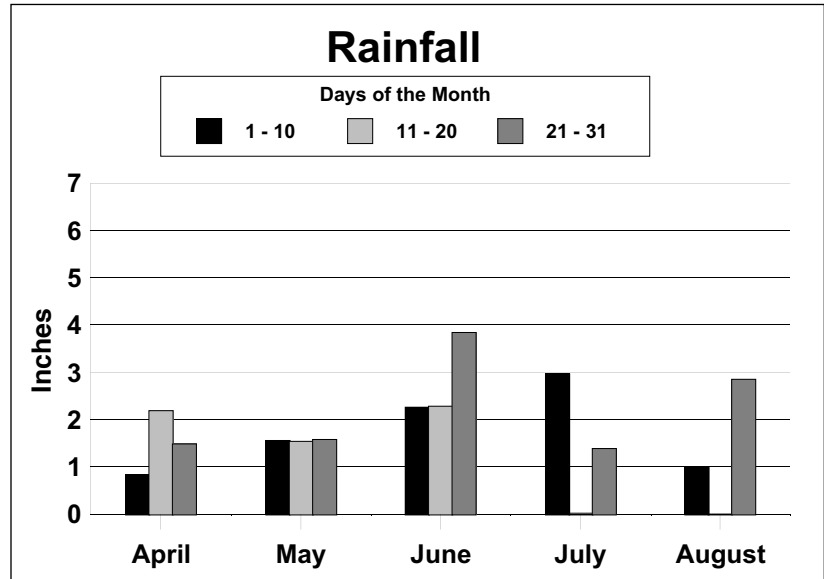
## Crop Summary

An excellent growing season early allowed corn to withstand the above-average rainfall during June. Rainfall and mild temperatures proved to be a favorable environment for northern and southern leaf blight.

Soil type .....	Brooksville silty clay
Soil pH .....	6.5
Soil fertility .....	P=M; K=M
Fertilizer added .....	Preplant — 0-20-20 @ 350 lb/A
	Planting — N @ 80 lb/A (32%)
	Sidedress — N @ 120 lb/A (32%)
Herbicide application .....	Burndown — Roundup @ 1.5 pt/A + Barrage @ 3 oz/A
	Preemergence — Atrazine @ 2 qt/A
Previous crop .....	Corn
Planting date .....	March 22
Harvest date .....	September 8

## Rainfall Summary

	Inches
April .....	4.49
May .....	4.67
June .....	8.37
July .....	4.38
August .....	3.85
<b>Total</b> .....	<b>25.76</b>



**Table 5. Characteristics of 66 early-maturing corn hybrids grown without irrigation on a Brooksville silty clay soil in Brooksville, Noxubee County, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>in</i>	%	
Belle	Belle 1545RY	202.1	-	-	0	40	15.0	29
Terral	TV25R31	197.8	-	-	1	45	15.3	29
Genesis	3214YG	197.3	-	-	0	44	15.0	31
Terral	TV25BR23	193.6	191.4	-	0	41	14.8	30
Monsanto	NB6502	192.8	-	-	0	45	14.7	27
Belle	Belle 1525R	187.4	-	-	0	47	15.8	29
Golden Acres	2831RRB	186.0	-	-	0	38	14.7	29
Terral	TV25B30	183.2	175.9	-	1	48	15.5	28
Belle	BEX Y004	181.4	-	-	0	44	14.9	29
Terral	TVX26B404	180.9	-	-	0	41	14.9	28
Belle	Belle 1430Y	179.9	163.1	-	0	48	15.5	27
Dyna-Gro	DG57P35	179.5	173.5	173.5	0	44	15.0	32
Belle	Belle 1830Y	179.1	-	-	0	44	15.4	29
Belle	BEX RY001	177.9	-	-	0	41	14.7	26
DEKALB	DKC61-45	176.6	-	-	0	27	14.6	27
Dyna Gro	5545Bt	175.1	-	-	0	41	14.8	29
Genesis	3215RR	174.6	-	-	0	38	14.7	31
Terral	TV26B82	174.5	-	-	0	45	15.3	26
Terral	TVX25B403	174.1	-	-	0	46	15.2	26
Terral	TVX24B402	173.4	-	-	0	48	15.6	29
Terral	TVX25BR013	172.3	171.0	-	0	47	14.9	30
DEKALB	DKC60-19	172.0	-	-	0	27	14.8	32
DEKALB	DKC63-81	170.2	-	-	0	40	14.6	28
Belle	Belle 1540RY	170.1	-	-	0	41	14.9	28
Terral	TV26BR10n	169.6	171.1	178.7	0	42	14.8	31
Terral	TVX25B404	169.6	-	-	0	42	15.2	25
FFR	749RR	169.0	-	-	0	42	14.9	29
Terral	TV24R10	169.0	155.2	160.9	0	29	15.6	30
Belle	BEX R001	168.4	-	-	0	43	15.6	25
Terral	TV23R31	167.5	-	-	1	45	15.4	28
Golden Acres	GA 2828RR	166.5	-	-	0	40	14.9	28
Belle	BEX Y005	165.9	-	-	0	43	14.6	26
Croplan Genetics	691 BT/LL	165.4	-	-	0	41	14.7	29
Croplan Genetics	631 RR/BT	165.4	-	-	0	38	14.7	26
Belle	Belle 1533Y	163.6	-	-	0	41	14.9	24
Terral	TV25R41	163.5	-	-	0	41	15.5	27
Terral	TVX24BR401	163.3	-	-	0	49	14.8	27
Terral	TVX24R401	161.5	-	-	0	45	15.2	27
DEKALB	DKC63-52	161.4	-	-	0	39	14.5	29
Terral	TV2140nRR	161.0	158.2	167.7	0	45	14.9	29
FFR	736Bt	160.7	165.9	159.8	0	38	14.7	26
Terral	TV2130	159.2	168.2	171.1	0	47	14.8	26
Belle	Belle 2222RY	159.1	-	-	0	40	14.7	27
Terral	TVX23R404	157.6	-	-	1	48	15.6	27
Pioneer	33M54	157.0	170.9	-	0	32	15.1	28
Monsanto	NB6503	156.5	-	-	0	42	15.0	29
DEKALB	DKC63-24	156.3	-	-	1	45	14.7	26
Belle	BEX C004	153.7	-	-	0	41	14.5	27
Terral	TV23R15n	153.4	167.0	164.6	0	44	14.9	28
Croplan Genetics	699 CL/BT/LL	152.8	-	-	0	31	14.7	29
Terral	TV26BR41	151.5	-	-	0	37	15.0	28
Terral	TV2140	150.5	170.4	172.8	0	44	15.0	28
Belle	Belle 1210C	150.0	-	-	1	47	15.9	25
DEKALB	DKC64-11 (RR2/YGCB)	149.8	148.8	147.0	0	24	14.4	27
Terral	TVX23R401	149.7	-	-	0	46	15.6	24
Terral	TV26B72	148.5	-	-	1	47	15.9	26
Terral	TV2160Bt	143.3	146.9	165.0	0	47	15.0	26
FFR	748	142.1	150.7	-	0	33	15.1	29
Dyna-Gro	5528BT	140.8	161.5	-	0	46	14.7	31
Pioneer	33V15	137.7	157.6	-	0	30	14.9	25
Terral	TVX24B403	136.7	-	-	0	47	14.7	25
Dyna-Gro	DG57K66	132.3	151.8	170.9	0	35	15.0	29
Belle	BEX Y006	132.0	-	-	1	34	15.6	28
Belle	BEX R004	129.8	-	-	1	34	15.9	27
Belle	Belle 1515C	122.5	-	-	0	35	15.6	25
Pioneer	34B20	115.0	-	-	0	35	14.6	29
<b>Overall mean</b>		<b>163.7</b>	<b>164.2</b>	<b>166.5</b>				
<b>LSD (.10)</b>		<b>35.1</b>	<b>21.8</b>	<b>18.7</b>				
<b>Error degrees of freedom</b>		<b>186</b>	<b>105</b>	<b>98</b>				
<b>CV (%)</b>		<b>17.9</b>	<b>15.8</b>	<b>17.1</b>				
<b>R<sup>2</sup> (%)</b>		<b>37</b>	<b>38</b>	<b>39</b>				

<sup>1</sup>Planted March 22; harvested September 8.

**Table 6. Characteristics of 37 late-maturing corn hybrids grown without irrigation on a Brooksville silty clay soil in Brooksville, Noxubee County, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Stalk lodging</b>	<b>Ear height</b>	<b>Moisture content</b>	<b>Harvested stand (x1000)</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Golden Acres	X6420BT	199.1	-	-	0	46	16.1	29
Croplan Genetics	818 RR/BT	195.8	-	-	0	40	15.7	31
Monsanto	NB6602EZA1	192.3	-	-	0	39	15.4	28
DEKALB	DKC69-71 (RR2/YGCB)	191.8	177.5	-	0	44	15.6	26
DEKALB	DKC69-72 (RR2)	191.1	183.0	-	0	42	15.3	28
Pioneer	31R87	189.9	-	-	2	45	15.3	25
Pioneer	31G97	189.7	-	-	0	46	14.8	24
Golden Acres	2841RRB	187.0	-	-	0	43	15.0	29
Pioneer	31G98	185.5	-	-	0	46	14.9	29
Pioneer	32R25	185.5	186.0	186.3	0	36	15.2	27
Monsanto	NB6703	179.6	-	-	0	44	15.4	26
Dyna-Gro	58P59	176.3	-	-	0	43	14.8	25
Dyna Gro	CX03318	174.7	-	-	0	45	15.8	30
Dyna Gro	CX03118	173.8	-	-	0	49	15.4	28
FFR	900BT	173.5	169.9	-	0	43	15.1	25
NK Brand	N82-A7	173.1	-	-	0	46	15.5	25
FFR	835BT	172.5	-	-	0	41	15.0	27
Monsanto	NB6802	172.5	-	-	0	45	15.2	25
Pioneer	31R88	170.1	153.7	164.2	0	45	15.6	23
Pioneer	31B13	168.5	168.2	169.5	0	45	15.2	25
Pioneer	32D99	167.6	163.9	172.0	0	44	15.3	28
Terral	TV26B23	166.9	167.8	-	0	47	15.7	30
Croplan Genetics	872 RR	165.2	-	-	0	41	15.3	28
FFR	849CL	164.8	168.6	-	0	45	15.4	28
Monsanto	NA6904	164.0	-	-	0	32	15.7	26
Genesis	2A16YG	163.9	171.5	-	0	44	15.3	30
Garst	8230IT	158.1	162.9	160.5	0	31	15.6	24
FFR	833RR	157.8	-	-	0	42	15.4	22
Pioneer	31G66	155.3	167.6	-	0	40	15.0	25
Dyna Gro	CX03218	155.1	-	-	0	48	15.9	29
Garst	8200YG1	152.7	156.6	-	0	42	15.8	26
Garst	8292YG1	152.6	-	-	0	41	15.2	27
Genesis	2A16RR	149.9	150.4	-	1	45	15.3	28
Terral	TVX27B401	145.6	-	-	0	51	15.1	27
NK Brand	N83-Z8 (Bt)	142.0	159.2	167.8	0	44	15.9	25
Monsanto	NA6606EZA3	132.9	-	-	0	43	14.9	24
NK	N83-N5	122.7	146.6	-	0	46	15.4	25
<b>Overall mean</b>		<b>169.9</b>	<b>166.2</b>	<b>170.1</b>				
<b>LSD (.10)</b>		<b>36.5</b>	<b>26.5</b>	<b>20.1</b>				
<b>Error degrees of freedom</b>		<b>97</b>	<b>83</b>	<b>47</b>				
<b>CV (%)</b>		<b>17.4</b>	<b>18.6</b>	<b>17.6</b>				
<b>R<sup>2</sup> (%)</b>		<b>41</b>	<b>32</b>	<b>36</b>				

<sup>1</sup>Planted March 22; harvested September 8.

# CHRIS AUSBORN FARM, ABERDEEN

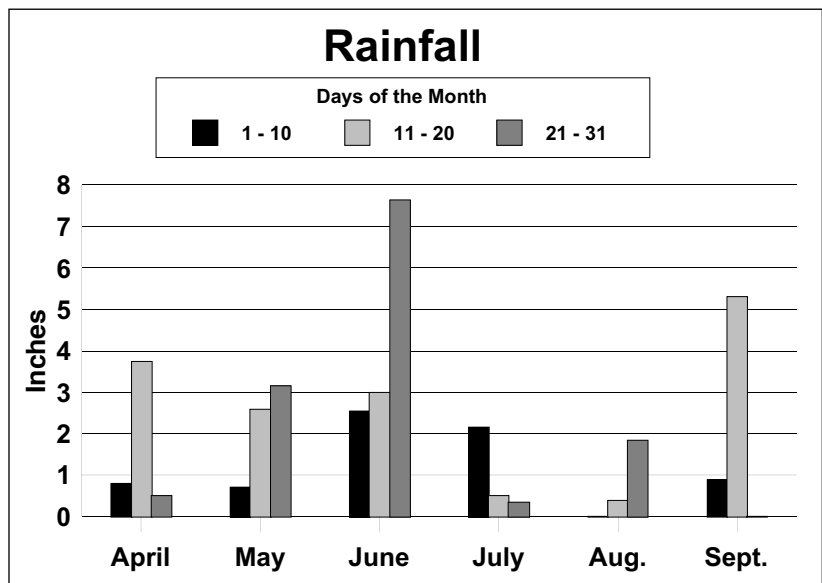
## Crop Summary

Heavy rainfall saturated soil for several weeks during June and early July. This stunted root systems and promoted nitrogen loss through denitrification. Yields were reduced due to these environmental conditions.

Soil type	Houston clay
Soil pH	7.2
Soil fertility	P=M; K=H
Fertilizer added	Preplant — 0-33-17 @ 225 lb/A + Zinc @ 2 lb/A Sidedress — N @ 200 lb/A
Herbicide application	Postemergence — Atrazine @ 2 qt/A + Accent @ 2.5 oz/A
Previous crop	Soybeans
Planting date	March 31
Harvest date	September 3

## Rainfall Summary

	Inches
April	5.05
May	6.45
June	13.20
July	3.00
August	2.25
September	6.20
Total	36.15



**Table 7. Results from 66 early-maturing corn hybrids grown without irrigation on a Houston clay soil in Aberdeen, Monroe County, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average <sup>2</sup>	3-year average <sup>2</sup>	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	bu/A	bu/A	%	in	%	
Terral	TV26BR41	170.0	-	-	0	39	16.5	31
Dyna-Gro	5528BT	169.0	-	-	0	42	15.9	31
Terral	TV2140	164.3	-	-	0	46	15.8	28
Terral	TV25BR23	161.7	-	-	0	37	16.0	31
Dyna Gro	5545Bt	161.2	-	-	1	36	16.0	30
Monsanto	NB6503	159.1	-	-	0	43	16.0	28
Golden Acres	2831RRB	155.7	-	-	0	35	16.0	31
Belle	Belle 1545RY	153.5	-	-	0	39	16.1	27
Belle	Belle 2222RY	152.7	-	-	0	35	16.1	26
Croplan Genetics	691 BT/LL	152.6	-	-	0	36	15.8	28
FFR	749RR	152.4	-	-	1	39	15.9	30
Terral	TV25R31	152.0	-	-	0	40	16.8	27
Terral	TV23R15n	151.8	-	-	0	42	15.8	30
Croplan Genetics	631 RR/BT	151.4	-	-	1	29	15.7	30
Monsanto	NB6502	151.2	-	-	0	36	15.8	26
Terral	TVX26B404	149.4	-	-	0	35	16.1	31
Terral	TV26BR10n	148.5	-	-	1	39	15.9	31
Belle	BEX C004	145.9	-	-	0	37	15.8	27
DEKALB	DKC63-24	144.5	-	-	0	36	15.2	29
Pioneer	33M54	144.3	-	-	0	37	16.2	25
Belle	BEX RY001	143.8	-	-	0	39	15.9	28
Terral	TV26B82	142.4	-	-	0	43	16.5	27
Genesis	3214YG	142.2	-	-	1	38	16.7	36
FFR	736Bt	141.9	-	-	1	38	16.0	27
Terral	TV2130	140.8	-	-	0	46	15.5	27
Terral	TVX24BR401	140.6	-	-	0	49	15.9	29
Terral	TV25B30	140.3	-	-	0	44	16.5	33
Belle	Belle 1515C	140.2	-	-	0	47	17.1	26
Terral	TVX25BR013	140.2	-	-	0	47	15.9	31
Terral	TVX25B403	140.2	-	-	0	46	15.9	26
FFR	748	139.8	-	-	1	38	16.8	28
Terral	TV23R31	139.7	-	-	0	43	16.9	28
Dyna-Gro	DG57K66	138.9	-	-	0	45	15.8	29
Terral	TVX24R401	138.9	-	-	0	48	16.1	27
DEKALB	DKC64-11 (RR2/YGCB)	138.5	-	-	0	40	15.6	28
Belle	BEX Y005	136.8	-	-	1	43	15.9	25
Terral	TV2140nRR	136.2	-	-	0	43	16.1	28
Terral	TV2160Bt	136.1	-	-	0	44	16.2	28
Belle	BEX Y004	134.4	-	-	0	37	15.9	30
DEKALB	DKC63-52	134.4	-	-	0	36	15.5	27
Terral	TV25R41	134.2	-	-	0	44	16.6	26
Terral	TVX23R404	133.9	-	-	0	46	16.7	27
Terral	TVX25B404	133.0	-	-	0	43	15.9	25
DEKALB	DKC63-81	131.9	-	-	0	34	15.1	27
Belle	Belle 1525R	130.5	-	-	0	44	16.6	21
Genesis	3215RR	130.0	-	-	0	34	16.5	31
DEKALB	DKC61-45	128.6	-	-	0	36	15.1	28
DEKALB	DKC60-19	128.5	-	-	0	32	15.6	31
Belle	Belle 1533Y	128.0	-	-	0	35	16.3	26
Belle	BEX R001	127.0	-	-	0	42	17.2	25
Terral	TVX24B403	126.4	-	-	0	45	15.8	19
Golden Acres	GA 2828RR	126.1	-	-	0	37	15.6	31
Terral	TV26B72	125.5	-	-	0	46	16.7	26
Dyna-Gro	DG57P35	124.3	-	-	1	40	15.8	29
Belle	Belle 1540RY	123.9	-	-	0	39	15.8	27
Croplan Genetics	699 CL/BT/LL	122.2	-	-	0	38	15.6	27
Belle	Belle 1430Y	122.1	-	-	0	42	16.4	28
Belle	BEX R004	121.6	-	-	0	44	16.5	24
Terral	TVX23R401	121.1	-	-	0	45	16.8	26
Belle	Belle 1830Y	120.2	-	-	0	41	16.9	28
Terral	TV24R10	115.5	-	-	0	42	17.2	32
Belle	Belle 1210C	113.9	-	-	0	45	16.8	25
Pioneer	33V15	111.6	-	-	1	34	15.9	25
Pioneer	34B20	110.9	-	-	1	29	13.8	27
Terral	TVX24B402	99.7	-	-	0	47	17.1	28
Belle	BEX Y006	81.3	-	-	0	46	16.9	25
<b>Overall mean</b>		<b>137.2</b>	-	-				
<b>LSD (.10)</b>		<b>22.4</b>	-	-				
<b>Error degrees of freedom</b>		<b>191</b>	-	-				
<b>CV (%)</b>		<b>13.8</b>	-	-				
<b>R<sup>2</sup> (%)</b>		<b>53</b>	-	-				

<sup>1</sup>Planted March 31; harvested September 3.

<sup>2</sup>No 2- or 3-year averages.



**Table 8. Results from 37 late-maturing corn hybrids grown without irrigation on a Houston clay soil in Aberdeen, Monroe County, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Monsanto	NB6703	154.4	-	-	0	41	16.9	29
Monsanto	NB6602EZA1	151.0	-	-	0	30	16.9	28
FFR	835BT	148.5	-	-	0	40	16.4	28
Dyna Gro	CX03118	145.3	-	-	0	47	16.2	31
Golden Acres	2841RRB	144.5	-	-	0	35	16.2	26
NK Brand	N82-A7	143.5	-	-	0	47	16.3	28
Garst	8200YG1	143.5	127.1	-	0	43	17.6	28
Monsanto	NA6904	143.4	-	-	0	34	16.5	27
DEKALB	DKC69-72 (RR2)	142.9	119.1	-	0	43	16.9	28
Pioneer	31G97	142.3	-	-	0	46	15.5	30
FFR	900BT	142.2	132.5	-	1	39	16.3	27
Dyna-Gro	58P59	139.7	-	-	0	37	15.9	29
Pioneer	31G98	138.1	-	-	0	47	15.5	29
NK	N83-N5	136.2	118.9	-	0	47	16.3	26
FFR	833RR	136.2	-	-	0	42	16.6	30
FFR	849CL	135.9	123.1	-	0	36	16.8	26
Garst	8230IT	134.2	134.7	150.2	0	42	16.6	27
Terral	TVX27B401	133.4	-	-	0	48	16.1	29
NK Brand	N83-Z8 (Bt)	132.6	108.2	134.1	0	47	16.8	28
Terral	TV26B23	131.4	116.5	-	0	46	16.8	28
Pioneer	31R88	130.9	125.1	135.8	0	42	17.0	25
Monsanto	NA6606EZA3	130.8	-	-	0	41	15.6	28
Monsanto	NB6802	130.2	-	-	0	40	17.1	26
Pioneer	31B13	128.1	115.5	143.6	0	49	15.9	25
Pioneer	31R87	127.8	-	-	0	40	16.8	22
Croplan Genetics	872 RR	127.6	-	-	0	39	17.0	26
Pioneer	32D99	127.1	119.6	139.2	0	44	16.6	30
DEKALB	DKC69-71 (RR2/YGCB)	126.0	117.4	-	0	39	16.8	25
Genesis	2A16YG	124.1	110.9	-	0	40	16.4	29
Dyna Gro	CX03318	123.2	-	-	1	43	16.8	31
Garst	8292YG1	121.5	-	-	0	33	16.4	24
Pioneer	32R25	121.3	117.4	130.9	0	49	16.0	29
Pioneer	31G66	120.7	113.3	-	0	36	16.7	27
Genesis	2A16RR	120.5	112.1	-	0	47	16.4	35
Dyna Gro	CX03218	119.7	-	-	0	47	16.7	28
Croplan Genetics	818 RR/BT	119.2	-	-	0	39	16.9	26
Golden Acres	X6420BT	112.9	-	-	0	48	17.0	28
<b>Overall mean</b>		<b>133.2</b>	<b>119.4</b>	<b>139.0</b>				
<b>LSD (.10)</b>		<b>21.5</b>	<b>15.3</b>	<b>11.2</b>				
<b>Error degrees of freedom</b>		<b>107</b>	<b>89</b>	<b>50</b>				
<b>CV (%)</b>		<b>13.7</b>	<b>15.3</b>	<b>12.3</b>				
<b>R<sup>2</sup> (%)</b>		<b>32</b>	<b>51</b>	<b>82</b>				

<sup>1</sup>Planted March 31; harvested September 3.

# MAFES COASTAL PLAIN BRANCH, NEWTON

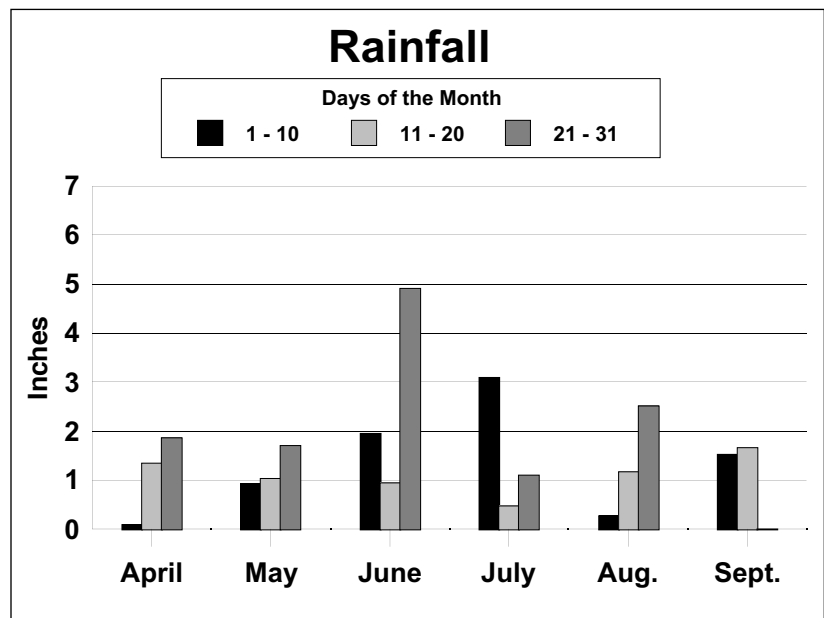
## Crop Summary

2004 was another great corn-producing year. Plants emerged and grew off well. Rainfall was abundant and fell in timely manner throughout the growing season. A severe thunderstorm the first week of July caused lodging in some plots. Harvest was delayed only slightly by wet weather.

Soil type	Prentiss fine sandy loam
Soil pH	6.2
Soil fertility	P=H; K=H
Fertilizer added	Preplant — 0-0-60 @ 100 lb/A Sidedress — 32-0-0 @ 180 lb/A
Herbicide application	Preemergence — Lasso @ 2 qt/A + Atrazine @ 2 qt/A
Previous crop	Corn
Planting date	March 19
Harvest date	September 1

## Rainfall Summary

	Inches
April	3.33
May	3.68
June	7.82
July	4.69
August	3.97
September	3.19
<b>Total</b>	<b>26.68</b>



**Table 9. Results from 45 early-maturing corn hybrids grown without irrigation on a Prentiss fine sandy loam soil at the MAFES Coastal Plain Branch, Newton, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average <sup>2</sup>	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Belle	BEX C004	259.3	-	-	2	54	16.6	29
Terral	TVX26B404	245.8	-	-	4	52	16.5	31
Dyna-Gro	5528BT	243.1	229.3	-	4	51	16.6	32
Belle	Belle 1830Y	241.5	-	-	4	56	17.0	30
Belle	BEX Y004	241.2	-	-	3	50	16.4	29
Terral	TV26B72	240.2	-	-	1	56	17.0	29
Terral	TVX24R401	236.9	-	-	3	56	16.9	29
Terral	TV25R31	233.5	-	-	3	53	17.3	29
Belle	BEX Y005	232.3	-	-	1	54	16.6	26
Terral	TV25R41	229.8	-	-	1	58	17.4	28
Dyna-Gro	DG57P35	229.0	223.8	-	2	51	16.5	32
Belle	BEX R001	228.8	-	-	2	58	17.7	27
Belle	Belle 2222RY	228.8	-	-	6	52	16.5	29
Terral	TVX24B402	228.5	-	-	1	59	17.1	30
Terral	TV26BR41	225.9	-	-	2	52	16.8	31
Belle	BEX R004	224.2	-	-	1	57	17.4	27
Terral	TV26B82	223.9	-	-	1	55	17.2	27
Terral	TV23R31	223.3	-	-	4	57	17.0	30
Belle	Belle 1545RY	223.0	-	-	2	50	17.1	28
Belle	BEX RY001	222.5	-	-	1	52	16.6	29
Terral	TV26BR10n	221.9	217.8	-	3	51	16.2	32
Belle	Belle 1525R	219.8	-	-	5	57	17.4	30
Belle	Belle 1515C	219.5	-	-	1	54	17.5	28
Terral	TVX24BR401	218.9	-	-	4	62	16.3	30
Terral	TVX23R404	218.1	-	-	1	57	17.1	30
Belle	BEX Y006	217.4	-	-	1	55	17.0	28
Terral	TV24R10	217.2	215.1	-	1	54	17.2	32
Terral	TV25B30	216.8	219.8	-	3	55	16.7	31
Belle	Belle 1540RY	216.7	-	-	0	51	16.6	28
Pioneer	33V15	215.7	210.9	-	4	54	16.7	28
Terral	TV2130	209.9	214.0	-	2	59	16.2	29
Terral	TV2140	209.2	211.0	-	10	58	16.4	28
Belle	Belle 1430Y	203.2	211.4	-	2	56	16.9	27
Belle	Belle 1533Y	201.2	-	-	4	50	16.6	29
Terral	TVX23R401	200.3	-	-	1	56	17.8	28
Terral	TVX24B403	195.3	-	-	8	59	16.2	30
Terral	TV25BR23	193.8	201.4	-	12	48	16.6	33
Terral	TV23R15n	191.0	195.4	-	6	56	16.3	29
Terral	TV2160Bt	189.2	195.9	-	5	56	17.0	29
Terral	TVX25BR013	188.7	193.0	-	15	54	16.3	33
Terral	TVX25B403	186.0	-	-	2	55	16.6	27
Terral	TVX25B404	183.0	-	-	5	58	16.8	30
Terral	TV2140nRR	182.5	200.1	-	12	58	16.5	29
Belle	Belle 1210C	180.6	-	-	3	54	17.5	27
Pioneer	34B20	164.4	-	-	10	47	16.3	31
<b>Overall mean</b>		<b>216.0</b>	<b>209.9</b>	-				
<b>LSD (.10)</b>		<b>22.1</b>	<b>16.8</b>	-				
<b>Error degrees of freedom</b>		<b>131</b>	<b>78</b>	-				
<b>CV (%)</b>		<b>8.7</b>	<b>9.6</b>	-				
<b>R<sup>2</sup> (%)</b>		<b>72</b>	<b>55</b>	-				

<sup>1</sup>Planted March 19; harvested September 1.

<sup>2</sup>No 3-year average.

**Table 10. Results from 21 late-maturing corn hybrids grown without irrigation on a Prentiss fine sandy loam soil at the MAFES Coastal Plain Branch, Newton, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average <sup>2</sup>	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
DEKALB	DKC69-71 (RR2/YGCB)	227.9	216.1	-	0	52	17.9	31
DEKALB	DKC69-72 (RR2)	227.5	227.4	-	2	51	17.3	30
Dyna-Gro	58P59	223.2	-	-	5	52	16.8	31
Dyna Gro	CX03118	219.5	-	-	8	58	16.9	32
NK Brand	N82-A7	215.6	-	-	1	54	17.2	28
FFR	900BT	208.5	-	-	1	48	16.9	28
Pioneer	31R87	208.2	-	-	0	55	17.0	22
Terral	TVX27B401	203.0	-	-	9	60	16.4	29
NK	N83-N5	202.1	210.9	-	1	55	16.8	26
Pioneer	31R88	201.7	211.7	-	1	53	17.2	23
Pioneer	31G66	199.8	220.9	-	6	52	16.5	28
Terral	TV26B23	199.7	201.8	-	4	55	17.1	31
FFR	833RR	196.5	-	-	1	51	16.6	26
NK Brand	N83-Z8 (Bt)	187.7	204.9	-	7	57	17.1	28
Dyna-Gro	DG58K22	185.9	214.5	-	17	55	16.5	32
Pioneer	32R25	181.2	189.2	-	8	56	16.2	24
FFR	849CL	180.5	-	-	2	52	16.4	26
Dyna-Gro	5515	172.6	201.3	-	21	52	16.3	30
Dyna Gro	CX03419	172.1	-	-	9	57	16.7	23
Pioneer	31B13	151.8	165.5	-	14	56	15.9	25
Dyna-Gro	58K15	145.7	184.1	-	21	50	16.6	24
<b>Overall mean</b>		<b>195.7</b>	<b>204.1</b>	-				
<b>LSD (.10)</b>		<b>32.7</b>	<b>24.5</b>	-				
<b>Error degrees of freedom</b>		<b>60</b>	<b>64</b>	-				
<b>CV (%)</b>		<b>14.1</b>	<b>14.2</b>	-				
<b>R<sup>2</sup> (%)</b>		<b>52</b>	<b>58</b>	-				

<sup>1</sup>Planted March 19; harvested September 1.

<sup>2</sup>No 3-year average.

# MAFES BROWN LOAM BRANCH, RAYMOND

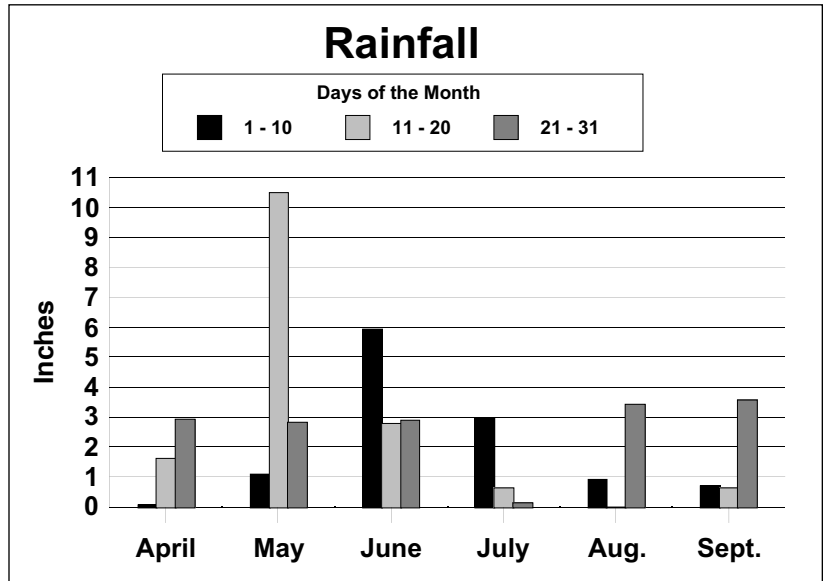
## Crop Summary

Below-average temperatures coupled with above-average rainfall promoted good yields. Twenty-five inches of rain in May and June likely stunted plant growth and promoted some nitrogen loss.

Soil type	Loring silt loam
Soil pH	6.7
Soil fertility	P=H; K=M
Fertilizer added	Preplant — 17-17-17 @ 200 lb/A + 34-0-0 @ 450 lb/A
Herbicide application	Preemergence — Bicep @ 2 qt/A
Previous crop	Grain Sorghum
Planting date	March 30
Harvest date	September 2

## Rainfall Summary

	Inches
April	4.56
May	14.41
June	11.60
July	3.73
August	4.35
<b>Total</b>	<b>38.65</b>



**Table 11. Results from 45 early-maturing corn hybrids grown without irrigation on a Loring silt loam soil at the MAFES Brown Loam Branch, Raymond, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Belle	BEX RY001	180.0	-	-	0	43	15.0	30
Belle	Belle 2222RY	177.7	-	-	0	43	15.2	29
Terral	TV26BR41	168.4	-	-	1	43	15.4	32
Belle	BEX Y004	166.7	-	-	0	43	15.3	31
Terral	TVX24B403	161.5	-	-	0	51	15.6	32
Belle	BEX C004	160.7	-	-	0	42	15.1	27
Dyna-Gro	5528BT	159.1	150.4	-	0	47	15.2	32
Terral	TV25R41	154.5	-	-	1	46	15.9	28
Terral	TV25B30	154.0	148.3	-	0	49	16.2	32
Terral	TVX24R401	153.8	-	-	1	54	15.7	29
Belle	Belle 1525R	151.9	-	-	0	54	16.2	29
Terral	TV2140nRR	149.7	162.3	156.7	1	51	15.4	30
Terral	TV2140	149.2	171.5	162.9	0	51	15.5	28
Terral	TVX26B404	148.9	-	-	2	42	15.4	32
Belle	Belle 1533Y	148.4	-	-	1	41	15.2	27
Terral	TV26BR10n	147.5	142.5	141.7	1	48	15.3	33
Terral	TV26B82	147.4	-	-	1	46	15.6	27
Terral	TVX25BR013	146.8	156.0	-	0	48	15.7	32
Pioneer	33V15	145.7	146.4	-	1	42	15.7	26
Terral	TV25R31	144.7	-	-	1	42	15.7	30
Belle	BEX R004	141.2	-	-	0	54	16.3	26
Terral	TV25BR23	141.0	148.2	-	1	42	15.0	33
Terral	TV2160Bt	140.5	139.9	136.8	1	51	15.9	27
Terral	TVX23R404	138.4	-	-	1	53	16.5	28
Belle	Belle 1210C	137.5	-	-	1	50	16.7	27
Terral	TVX25B404	137.3	-	-	1	53	16.2	27
Terral	TVX25B403	136.4	-	-	0	51	15.7	27
Belle	BEX R001	136.2	-	-	1	45	15.9	27
Terral	TV2130	135.8	156.0	156.7	0	51	15.1	27
Belle	BEX Y005	134.9	-	-	1	43	15.2	24
Terral	TV23R15n	134.3	130.5	131.1	0	48	15.3	28
Belle	Belle 1515C	134.3	-	-	0	52	16.0	26
Terral	TVX24BR401	132.9	-	-	0	51	15.3	30
Dyna-Gro	DG57P35	131.3	133.4	-	0	43	15.3	31
Belle	Belle 1430Y	131.0	135.6	-	0	48	16.0	28
Terral	TV24R10	129.1	133.1	135.9	1	50	16.3	31
Belle	Belle 1545RY	128.4	-	-	0	41	15.1	28
Terral	TVX23R401	127.9	-	-	1	52	16.3	29
Belle	Belle 1830Y	126.9	-	-	0	44	15.5	29
Terral	TV26B72	124.1	-	-	1	55	16.1	26
Belle	BEX Y006	120.3	-	-	1	52	16.2	28
Pioneer	34B20	116.2	-	-	2	40	14.8	30
Terral	TV23R31	110.3	-	-	1	54	16.2	29
Terral	TVX24B402	109.9	-	-	0	52	16.2	23
Belle	Belle 1540RY	106.9	-	-	1	41	15.2	28
<b>Overall mean</b>		<b>141.3</b>	<b>146.8</b>	<b>146.1</b>				
<b>LSD (.10)</b>		<b>24.9</b>	<b>20.9</b>	<b>14.3</b>				
<b>Error degrees of freedom</b>		<b>132</b>	<b>77</b>	<b>59</b>				
<b>CV (%)</b>		<b>15.1</b>	<b>17.0</b>	<b>14.9</b>				
<b>R<sup>2</sup> (%)</b>		<b>49</b>	<b>41</b>	<b>52</b>				

<sup>1</sup>Planted March 30; harvested September 2.

**Table 12. Results from 21 late-maturing corn hybrids grown without irrigation on a Loring silt loam soil at the MAFES Brown Loam Branch, Raymond, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Stalk lodging</b>	<b>Ear height</b>	<b>Moisture content</b>	<b>Harvested stand (x1000)</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Dyna-Gro	58P59	172.2	-	-	0	44	15.7	30
Dyna-Gro	DG58K22	157.7	163.2	146.5	0	46	15.8	33
Dyna-Gro	58K15	156.0	148.4	-	0	45	15.9	33
Terral	TVX27B401	154.1	-	-	0	53	15.9	30
Pioneer	31G66	154.1	165.8	-	1	46	16.1	28
Pioneer	31R88	153.6	157.5	144.6	1	46	16.6	25
Dyna-Gro	5515	148.7	148.7	148.5	0	45	16.0	33
FFR	849CL	148.7	-	-	1	46	16.4	28
NK Brand	N83-Z8 (Bt)	147.3	155.3	149.2	1	51	16.2	30
NK	N83-N5	146.3	141.4	-	0	48	16.2	27
FFR	900BT	145.4	-	-	0	44	16.5	29
Terral	TV26B23	143.0	147.0	-	0	51	16.5	33
Pioneer	31B13	139.1	148.7	-	1	52	16.2	25
DEKALB	DKC69-72 (RR2)	137.4	149.6	-	1	44	16.2	30
Pioneer	31R87	136.7	-	-	1	50	16.6	26
NK Brand	N82-A7	135.8	-	-	0	50	16.0	27
FFR	833RR	132.5	-	-	0	42	16.1	27
Dyna Gro	CX03419	132.3	-	-	0	55	15.9	31
Dyna Gro	CX03118	132.1	-	-	1	52	16.0	31
DEKALB	DKC69-71 (RR2/YGCB)	129.3	147.9	-	1	44	15.9	28
Pioneer	32R25	128.7	143.2	153.1	1	51	15.8	26
<b>Overall mean</b>		<b>143.9</b>	<b>151.1</b>	<b>148.4</b>				
<b>LSD (.10)</b>		<b>23.1</b>	<b>18.7</b>	<b>17.5</b>				
<b>Error degrees of freedom</b>		<b>58</b>	<b>60</b>	<b>37</b>				
<b>CV (%)</b>		<b>13.4</b>	<b>14.3</b>	<b>17.4</b>				
<b>R<sup>2</sup> (%)</b>		<b>52</b>	<b>56</b>	<b>51</b>				

<sup>1</sup>Planted March 30; harvested September 2.

# HENRY SHETLER FARM, CLARKSDALE

## Crop Summary

Corn was planted into stale seed beds rowed up the previous fall following soybean harvest. Growing conditions overall were good with above-average rainfall in June and below-normal temperatures throughout the growing season. Harvest was completed without any weather-related delays, and yields were good.

Soil type .....	Forestdale silty clay
Soil pH .....	6.1
Soil fertility .....	P=M; K=M
Fertilizer added .....	Sidedress — N @ 280 lb/A (N-sol)
	Topdress — N @ 21 lb/A (Ammonium Sulfate)
Herbicide application ....	Preplant — Burndown — Roundup
	Weathermax @ 22 oz/A (3-11-04)
	Preemergence — Atrazine @ 1.5 pt/A
	+ Guardsman Max @ 3 pt/A (4-7-04)
Irrigation (furrow) .....	5-14-04, 7-21-04, 8-2-04
Previous crop .....	Soybeans
Planting date .....	March 26
Harvest date .....	August 26

## Rainfall Summary

	Inches
April .....	5.29
May .....	3.29
June .....	7.19
July .....	1.53
August .....	1.92
<b>Total</b> .....	<b>19.22</b>

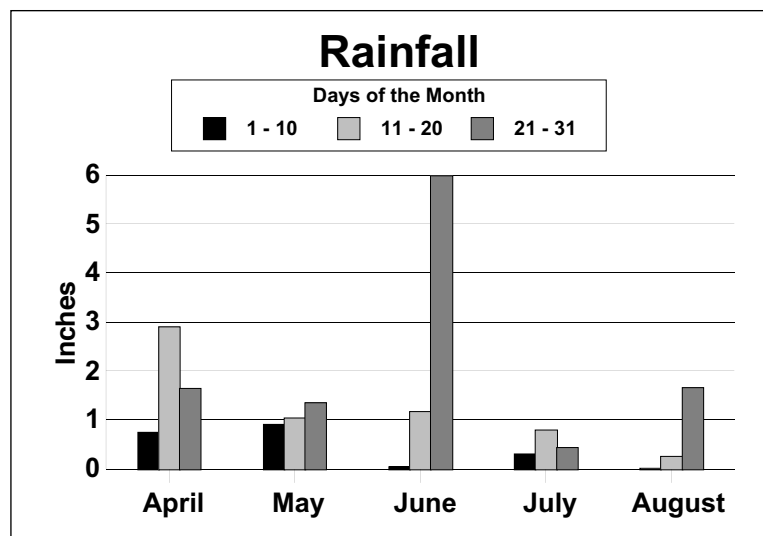


Table 13. Results from 75 early-maturing corn hybrids grown with irrigation on a Forestdale silty clay soil near Clarksdale, Coahoma County, 2004.<sup>1</sup>

Brand name	Hybrid number	2004 yield bu/A	2-year average bu/A	3-year average bu/A	Stalk lodging %	Ear height in	Moisture content %	Harvested stand (x1000)
Dyna-Gro	5528BT	207.3	150.2	-	3	39	16.4	34
Genesis	2E15YGCB	192.8	-	-	4	38	16.4	32
DEKALB	DKC63-24	192.7	-	-	1	41	15.7	29
Belle	BEX RY001	189.3	-	-	5	38	16.3	33
Genesis	3215C	188.8	141.8	-	7	39	16.5	34
Pioneer	33M54	186.8	175.0	-	5	36	16.5	30
Terral	TVX24BR401	186.5	-	-	3	46	16.3	31
DEKALB	DKC63-81	186.2	-	-	3	37	16.0	34
Terral	TV26BR10n	185.5	142.8	153.0	6	36	16.3	34
Unity Seeds	715Bt	185.1	-	-	1	36	15.9	33
Terral	TVX24B402	184.4	-	-	4	45	16.8	31
Vigoro	V56Y51	183.1	-	-	2	33	16.3	29
Genesis	3214YG	182.7	134.1	153.6	1	36	16.4	35
Belle	Belle 1533Y	182.7	-	-	6	35	16.4	34
Terral	TV26B82	182.6	-	-	6	41	17.0	29
Genesis	2E15RRYGCB	181.9	-	-	6	35	17.0	35
Pioneer	33V15	181.8	-	-	6	36	16.1	28
Genesis	2C15YGCB	181.7	-	-	2	43	16.7	32

<sup>1</sup>Planted March 26; harvested August 26.



**Table 13 (continued). Results from 75 early-maturing corn hybrids grown with irrigation on a Forestdale silty clay soil near Clarksdale, Coahoma County, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>in</i>	%	
Terral	TVX23R404	181.1	-	-	9	43	16.9	31
Triumph	1416Bt	180.6	-	-	3	32	16.0	33
DEKALB	DKC61-45	180.5	-	-	4	34	16.0	33
Terral	TVX25BR013	180.1	127.4	-	4	43	16.0	33
Croplan Genetics	631 RR/BT	180.0	-	-	2	36	16.1	35
Croplan Genetics	691 BT/LL	179.5	-	-	3	35	16.1	32
Belle	Belle 1540RY	179.4	-	-	3	35	16.3	35
Belle	BEX Y005	178.8	-	-	2	39	16.5	29
Genesis	3215RR	178.7	135.4	135.2	7	31	16.0	35
Terral	TV2130	177.9	135.3	147.1	6	43	16.3	30
DEKALB	DKC64-11 (RR2/YGCB)	176.7	132.6	152.5	2	38	15.7	34
Terral	TV25BR23	176.4	162.1	-	4	32	16.1	33
Croplan Genetics	699 CL/BT/LL	175.7	-	-	3	35	16.0	32
DEKALB	DKC60-19	175.6	-	-	2	29	16.2	34
Terral	TVX26B404	175.4	-	-	4	38	16.7	33
Golden Acres	2831RRB	174.4	-	-	3	32	16.2	34
Bio Gene	BT 1150	173.7	-	-	4	35	16.8	33
Terral	TVX24B403	173.6	-	-	8	44	16.2	33
Belle	Belle 1545RY	173.4	-	-	4	35	16.6	32
Terral	TVX25B404	173.4	-	-	2	43	16.2	29
Belle	Belle 1515C	171.9	-	-	8	46	16.8	32
Terral	TV25B30	171.7	140.7	-	6	44	16.0	32
Terral	TV25R31	171.7	-	-	5	38	16.5	30
Terral	TV26B72	171.5	-	-	5	46	16.7	28
DEKALB	DKC63-52	171.3	-	-	1	29	16.0	32
Pioneer	34B20	171.3	-	-	1	30	16.0	31
Terral	TV23R15n	170.9	153.9	160.6	4	38	15.7	29
Terral	TV23R31	169.1	-	-	8	40	16.8	29
Belle	BEX Y006	169.0	-	-	9	46	16.7	33
FFR	749RR	168.3	-	-	12	37	16.3	34
Terral	TV25R41	166.6	-	-	5	37	16.8	28
Golden Acres	GA 2828RR	166.2	136.2	-	5	34	16.0	32
FFR	736Bt	165.2	134.2	154.2	5	34	16.2	31
Dyna-Gro	DG57P35	165.1	158.6	166.3	1	36	15.9	33
Terral	TVX24R401	164.9	-	-	4	42	16.2	29
Belle	BEX Y004	164.8	-	-	5	36	16.7	33
Terral	TV26BR41	164.7	-	-	3	37	16.6	33
Belle	Belle 1525R	164.5	-	-	4	44	16.7	32
Belle	Belle 1830Y	162.6	-	-	8	41	16.4	32
Terral	TV24R10	162.2	137.5	147.8	10	39	16.6	32
Terral	TV2140	162.1	134.2	144.3	4	41	15.9	28
Dyna-Gro	5516RR	161.6	-	-	7	39	16.4	32
Dyna-Gro	DG57K66	161.4	128.0	142.3	3	40	16.0	31
Belle	BEX R001	161.4	-	-	10	39	16.4	30
Unity Seeds	6296	161.2	127.6	-	6	33	16.1	34
FFR	748	160.5	159.3	-	9	39	16.1	33
Belle	Belle 2222RY	160.2	-	-	4	36	16.4	35
Terral	TV2140nRR	160.1	155.1	155.3	6	42	15.8	30
Terral	TVX25B403	159.7	-	-	3	44	17.2	27
Belle	Belle 1430Y	156.9	120.9	-	6	42	16.3	31
Belle	BEX C004	153.6	-	-	8	35	15.9	31
Terral	TVX23R401	153.4	-	-	9	44	17.1	29
Terral	TV2160Bt	152.7	152.4	162.9	4	40	16.0	31
Monsanto	NB6502	152.0	-	-	3	34	15.9	33
Belle	Belle 1210C	150.0	-	-	12	41	16.4	30
Belle	BEX R004	149.5	-	-	8	42	17.2	23
Monsanto	NB6503	133.5	-	-	3	34	16.2	34
<b>Overall mean</b>		<b>172.1</b>	<b>142.4</b>	<b>151.9</b>				
<b>LSD (.10)</b>		<b>27.8</b>	<b>20.6</b>	<b>14.5</b>				
<b>Error degrees of freedom</b>		<b>222</b>	<b>132</b>	<b>120</b>				
<b>CV (%)</b>		<b>13.9</b>	<b>17.5</b>	<b>14.7</b>				
<b>R<sup>2</sup> (%)</b>		<b>28</b>	<b>75</b>	<b>74</b>				

<sup>1</sup>Planted March 26; harvested August 26.

**Table 14. Results from 47 late-maturing corn hybrids grown with irrigation on a Forestdale silty clay soil near Clarksdale, Coahoma County, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Stalk lodging</b>	<b>Ear height</b>	<b>Moisture content</b>	<b>Harvested stand (x1000)</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Vigoro	V58YR2	257.4	-	-	3	36	16.1	29
Golden Acres	X6420BT	249.6	-	-	5	45	17.0	32
Terral	TVX27B401	248.9	-	-	4	46	15.5	30
Terral	TV26B23	243.5	184.5	-	4	44	16.3	32
NK Brand	N82-A7	213.6	-	-	3	42	17.0	32
Pioneer	31G97	213.4	-	-	5	45	16.5	32
Monsanto	NA6606EZA3	212.6	-	-	2	40	16.0	34
Garst	8200YG1	208.4	176.1	-	2	42	17.6	33
Garst	8292YG1	201.2	-	-	1	32	17.6	32
FFR	835BT	198.9	-	-	4	33	16.1	33
Garst	8288	198.5	146.1	149.8	5	39	16.7	33
DEKALB	DKC69-71 (RR2/YGCB)	198.2	160.5	-	3	42	18.3	34
Monsanto	NB6802	196.2	-	-	5	42	16.9	32
Genesis	2A16YG	195.0	157.4	175.1	3	41	16.0	35
FFR	900BT	195.0	145.7	-	3	35	16.5	33
Pioneer	31G98	191.1	143.8	147.9	5	45	15.7	29
Monsanto	NB6602EZA1	190.0	-	-	1	31	17.4	33
Pioneer	32R25	189.6	140.8	153.9	4	43	15.8	26
DEKALB	DKC69-72 (RR2)	188.5	146.7	-	10	43	17.2	34
Croplan Genetics	818 RR/BT	185.0	-	-	0	37	17.2	33
Pioneer	32D99	184.7	136.1	147.6	4	43	17.4	29
Golden Acres	2841RRB	181.8	-	-	4	36	16.2	33
Bio Gene	BT 4220	176.3	-	-	9	43	16.3	32
Genesis	4C16RR/YGCB	176.1	161.5	-	3	43	16.1	33
Pioneer	31G66	175.7	134.5	-	3	37	17.0	29
FFR	849CL	175.5	132.2	-	4	36	16.6	32
Pioneer	31R87	174.2	-	-	6	47	17.0	25
Pioneer	31R88	173.3	128.1	144.0	4	42	17.3	26
Dyna-Gro	58K15	172.6	142.4	-	10	38	15.9	32
Monsanto	NA6904	172.0	-	-	4	35	16.5	30
Monsanto	NB6703	170.7	-	-	5	38	16.8	35
Pioneer	31B13	169.8	138.0	159.0	4	45	16.5	26
Garst	8204RR	168.3	-	-	8	39	15.9	28
Dyna Gro	CX03318	168.2	-	-	7	39	16.7	35
Triumph	1866Bt	167.8	147.8	-	12	40	15.9	33
NK Brand	N83-Z8 (Bt)	166.6	147.6	170.2	6	42	16.4	25
Dyna-Gro	5515	165.3	131.0	146.5	13	36	16.0	34
Genesis	2D16YGCB	165.0	124.8	-	6	35	16.4	33
Genesis	2A16RR	164.9	130.3	141.6	6	43	16.1	31
Dyna-Gro	58P59	160.8	138.4	-	5	38	16.1	31
Vigoro	EX284001	157.2	-	-	2	40	15.8	22
FFR	833RR	155.5	-	-	3	39	16.2	33
Dyna Gro	CX03419	154.4	-	-	3	43	15.4	33
NK	N83-N5	153.7	133.1	-	8	44	16.1	33
Dyna Gro	CX03118	145.8	-	-	5	45	15.8	33
Dyna Gro	CX03218	145.0	-	-	11	46	17.5	33
Croplan Genetics	872 RR	144.2	-	-	8	38	16.5	31
<b>Overall mean</b>		<b>184.2</b>	<b>144.7</b>	<b>153.6</b>				
<b>LSD (.10)</b>		<b>31.2</b>	<b>20.8</b>	<b>15.0</b>				
<b>Error degrees of freedom</b>		<b>136</b>	<b>131</b>	<b>89</b>				
<b>CV (%)</b>		<b>14.4</b>	<b>17.3</b>	<b>14.9</b>				
<b>R<sup>2</sup> (%)</b>		<b>60</b>	<b>81</b>	<b>82</b>				

<sup>1</sup>Planted March 26; harvested August 26.

# ROB COKER FARM, YAZOO CITY

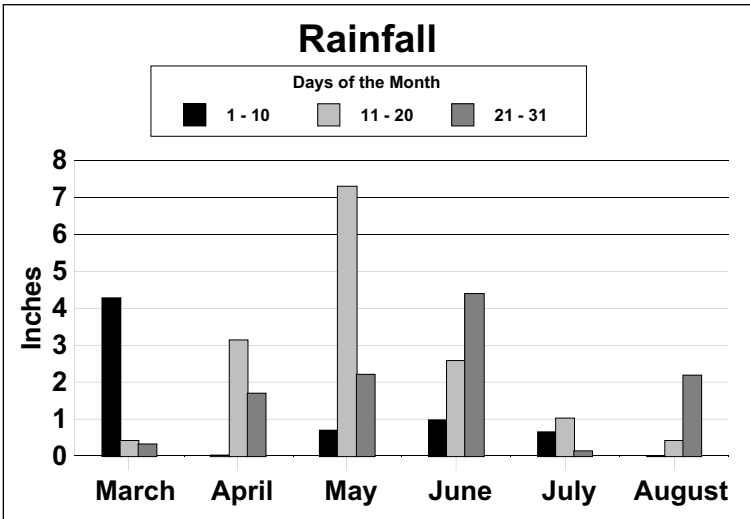
## Crop Summary

Corn was planted into a stale seedbed. Rainfall was above normal and temperatures were below normal for most of the growing season, which limited drought stress. Harvest was completed on time, and yields were good.

Soil type ..... Morganfield silty loam  
 Soil pH ..... 7.6  
 Soil fertility ..... P=H; K=H  
 Fertilizer added ..... Preemergence – N @ 100 lb/A (32%);  
   P<sub>2</sub>O<sub>5</sub> @ 97 lb/A; K<sub>2</sub>O @ 90 lb/A  
   Sidedress – N @ 130 lb/A (32%)  
 Herbicide application .... Preemergence – Bicep @ 2 qt/A  
 Previous crop ..... Corn  
 Planting date ..... March 23  
 Harvest date ..... September 13

## Rainfall Summary

	Inches
March .....	5.01
April .....	4.86
May .....	10.20
June .....	7.94
July .....	1.82
August .....	2.61
<b>Total .....</b>	<b>32.44</b>



**Table 15. Results from 75 early-maturing corn hybrids grown without irrigation on a Morganfield silty loam soil near Yazoo City, Yazoo County, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>in</i>	%	
Unity Seed	715Bt	200.6	-	-	0	43	14.1	33
Belle	Belle 1525R	196.5	-	-	3	59	14.4	30
Terral	TVX23R401	193.5	-	-	4	56	14.0	30
Monsanto	NB6502	193.3	-	-	0	47	14.1	37
Terral	TV2140	188.6	204.4	212.1	1	52	14.1	28
Dyna-Gro	DG57K66	186.3	217.0	208.1	2	56	13.9	31
Terral	TV26B82	185.3	-	-	1	57	14.3	27
Terral	TVX25BR013	185.0	213.1	-	2	50	14.1	33
Terral	TVX24B403	184.6	-	-	1	51	14.3	30
Vigoro	V56Y51	184.4	-	-	1	52	14.3	30
Belle	BEX R001	184.4	-	-	1	47	14.3	33
Belle	Belle 1545RY	183.7	-	-	1	49	14.2	34
Terral	TVX25B404	178.7	-	-	0	45	14.0	29
Croplan Genetics	631 RR/BT	178.3	-	-	0	48	14.1	34
Terral	TV26BR10n	178.0	197.8	201.0	0	49	14.2	33
Genesis	3215C	177.8	192.4	-	2	55	14.1	30
Genesis	3215RR	177.7	195.4	192.1	3	48	14.2	36
Pioneer	33M54	177.2	209.1	-	2	43	14.0	28
Belle	BEX C004	175.7	-	-	3	54	14.4	30
Croplan Genetics	691 BT/LL	174.2	-	-	1	53	14.0	32
Terral	TV2130	173.9	193.5	198.6	2	53	14.0	29

<sup>1</sup>Planted March 23; harvested September 13.

**Table 15 (continued). Results from 75 early-maturing corn hybrids grown without irrigation on a Morganfield silty loam soil near Yazoo City, Yazoo County, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Stalk lodging</b>	<b>Ear height</b>	<b>Moisture content</b>	<b>Harvested stand (x1000)</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>%</i>	<i>in</i>	<i>%</i>	
Belle	BEX RY001	172.7	-	-	0	49	14.3	34
Terral	TV26B72	172.7	-	-	0	54	14.2	29
Dyna-Gro	5516RR	172.4	-	-	3	53	14.2	31
Bio Gene	BT 1150	172.4	-	-	0	49	14.4	33
Dyna-Gro	DG57P35	172.0	196.4	199.9	1	54	14.2	32
Croplan Genetics	699 CL/BT/LL	171.1	-	-	0	44	14.0	29
Genesis	2C15YGCB	170.9	-	-	0	43	14.3	34
Pioneer	34B20	169.9	-	-	0	46	14.0	24
DEKALB	DKC61-45	169.3	-	-	2	54	14.3	33
Terral	TV25B30	168.7	196.8	-	0	48	14.2	33
Belle	BEX R004	168.3	-	-	3	64	14.1	33
Belle	Belle 1430Y	168.3	191.7	-	0	50	14.3	31
Terral	TVX24R401	167.9	-	-	1	54	14.2	29
Terral	TV26BR41	167.5	-	-	0	47	13.9	32
Golden Acres	2831RRB	167.4	-	-	0	44	14.3	32
FFR	749RR	167.4	-	-	2	40	14.4	30
Pioneer	33V15	167.1	-	-	2	47	14.2	27
Terral	TV2160Bt	166.5	200.7	208.0	0	48	14.3	30
Belle	Belle 1515C	166.4	-	-	2	51	14.3	30
Unity Seed	6296	166.4	189.8	-	2	43	14.1	33
Terral	TVX25B403	165.2	-	-	1	49	14.1	28
Belle	Belle 1533Y	164.7	-	-	0	44	14.2	29
Belle	Belle 1830Y	164.0	-	-	0	46	14.3	33
DEKALB	DKC63-52	163.9	-	-	1	54	14.2	33
DEKALB	DKC63-81	163.6	-	-	0	46	14.2	33
Belle	BEX Y006	163.5	-	-	0	50	14.2	29
Terral	TV25BR23	163.3	205.9	-	1	52	14.0	33
Terral	TVX26B404	163.0	-	-	0	54	14.1	32
Belle	Belle 1540RY	162.3	-	-	2	46	14.2	33
Dyna-Gro	5528BT	160.8	189.0	-	1	49	14.0	33
Belle	Belle 1210C	160.4	-	-	0	50	14.2	30
Terral	TV23R15n	160.0	178.2	180.3	2	53	14.3	29
Belle	BEX Y004	159.3	-	-	0	45	14.1	33
Terral	TV23R31	158.0	-	-	0	53	14.0	28
Belle	BEX Y005	157.3	-	-	1	47	14.1	25
Terral	TVX24BR401	155.6	-	-	2	47	13.9	30
DEKALB	DKC64-11 (RR2/YGCB)	155.1	185.1	197.4	0	49	14.4	32
DEKALB	DKC63-24	154.8	-	-	1	55	14.1	29
Golden Acres	GA 2828RR	153.7	189.6	-	2	46	14.3	26
DEKALB	DKC60-19	153.1	-	-	0	47	14.2	33
Triumph	1416Bt	150.3	-	-	1	50	14.4	34
Belle	Belle 2222RY	148.7	-	-	0	41	14.1	34
FFR	736Bt	148.4	176.7	194.4	1	47	14.3	31
FFR	748	148.2	184.5	-	2	51	14.3	30
Terral	TVX23R404	147.4	-	-	1	51	14.0	31
Terral	TV2140nRR	145.0	193.3	209.0	2	47	14.0	30
Terral	TV25R31	142.7	-	-	2	54	14.2	30
Genesis	2E15RRYGCB	139.9	-	-	1	52	14.3	33
Terral	TV24R10	138.3	178.9	185.5	3	60	14.0	32
Monsanto	NB6503	134.6	-	-	1	48	13.9	34
Genesis	3214YG	133.1	197.9	210.0	1	48	14.3	36
Genesis	2E15YGCB	128.4	-	-	1	50	14.1	31
Terral	TV25R41	125.0	-	-	2	49	14.0	30
Terral	TVX24B402	121.2	-	-	1	48	13.9	32
<b>Overall mean</b>		<b>165.1</b>	<b>194.6</b>	<b>199.6</b>				
<b>LSD (.10)</b>		<b>38.0</b>	<b>26.9</b>	<b>19.1</b>				
<b>Error degrees of freedom</b>		<b>199</b>	<b>122</b>	<b>115</b>				
<b>CV (%)</b>		<b>18.7</b>	<b>16.2</b>	<b>14.5</b>				
<b>R<sup>2</sup> (%)</b>		<b>29</b>	<b>61</b>	<b>61</b>				

<sup>1</sup>Planted March 23; harvested September 13.

**Table 16. Results from 47 late-maturing corn hybrids grown without irrigation on a Morganfield silty loam soil near Yazoo City, Yazoo County, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>in</i>	%	
Genesis	2A16YG	214.5	205.2	215.6	1	51	14.6	37
FFR	900BT	206.2	224.1	-	1	53	14.3	32
DEKALB	DKC69-71 (RR2/YGCB)	203.4	216.6	-	3	48	14.1	33
Monsanto	NB6802	202.3	-	-	1	51	14.2	32
Monsanto	NB6602EZA1	201.0	-	-	1	45	14.2	32
Terral	TV26B23	198.1	207.5	-	1	57	14.7	32
DEKALB	DKC69-72 (RR2)	195.0	221.2	-	2	51	14.4	32
FFR	835BT	193.8	-	-	1	49	14.2	31
NK Brand	N83-Z8 (Bt)	192.1	205.6	211.5	1	54	14.8	35
Terral	TVX27B401	191.1	-	-	1	54	14.1	30
Garst	8292YG1	190.7	-	-	0	41	14.7	29
Dyna Gro	CX03318	190.7	-	-	3	48	14.3	32
Croplan Genetics	818 RR/BT	189.5	-	-	0	47	14.6	32
Golden Acres	X6420BT	188.9	-	-	1	55	14.9	31
Dyna-Gro	58P59	187.1	208.0	-	2	53	13.9	32
NK Brand	N82-A7	185.4	-	-	1	51	14.4	30
FFR	833RR	183.5	-	-	2	51	14.5	29
Monsanto	NA6606EZA3	183.0	-	-	0	51	14.1	33
Triumph	1866Bt	182.7	203.2	-	0	49	14.7	31
Pioneer	32D99	181.0	217.7	223.3	1	52	14.4	29
Dyna Gro	CX03419	179.4	-	-	1	58	14.1	31
Monsanto	NB6703	171.9	-	-	1	46	14.5	33
Vigoro	EX284001	171.0	-	-	1	56	14.3	28
Dyna Gro	CX03118	169.2	-	-	1	54	14.1	33
NK	N83-N5	169.0	193.6	-	1	48	14.5	29
Genesis	4C16RR/YGCB	165.8	186.9	-	1	48	14.3	32
Dyna-Gro	58K15	162.7	174.3	-	3	52	14.2	33
Dyna Gro	CX03218	161.6	-	-	2	46	14.7	32
Dyna-Gro	5515	161.4	192.4	204.0	3	51	14.4	32
Genesis	2D16YGCB	159.3	188.5	-	0	42	13.8	32
Vigoro	V58YR2	159.1	-	-	1	49	14.2	26
Golden Acres	2841RRB	156.9	-	-	0	44	13.8	29
Pioneer	31G98	156.7	194.4	207.4	3	49	14.0	28
Garst	8200YG1	155.4	177.9	-	0	47	14.5	31
Garst	8204RR	154.1	-	-	2	47	14.4	27
Garst	8288	153.9	188.4	206.3	3	47	14.6	31
Pioneer	31G97	153.7	-	-	3	52	14.1	27
Genesis	2A16RR	153.5	183.6	185.6	2	52	14.4	35
Bio Gene	BT 4220	149.9	-	-	0	46	14.6	29
Monsanto	NA6904	144.5	-	-	2	43	14.7	29
Pioneer	31R88	140.0	173.2	186.4	1	38	14.2	22
FFR	849CL	133.1	169.4	-	3	49	14.0	30
Croplan Genetics	872 RR	131.2	-	-	0	46	14.6	28
Pioneer	31R87	126.9	-	-	3	50	14.3	21
Pioneer	31B13	126.8	160.4	175.9	0	43	14.5	21
Pioneer	31G66	122.5	174.6	-	2	46	14.4	25
Pioneer	32R25	109.5	145.6	171.6	2	48	14.2	22
<b>Overall mean</b>		<b>169.3</b>	<b>191.8</b>	<b>198.7</b>				
<b>LSD (.10)</b>		<b>31.1</b>	<b>22.1</b>	<b>18.1</b>				
<b>Error degrees of freedom</b>		<b>137</b>	<b>131</b>	<b>90</b>				
<b>CV (%)</b>		<b>15.6</b>	<b>13.9</b>	<b>14.0</b>				
<b>R<sup>2</sup> (%)</b>		<b>55</b>	<b>71</b>	<b>70</b>				

<sup>1</sup>Planted March 23; harvested September 13.

# MAFES DELTA BRANCH, STONEVILLE

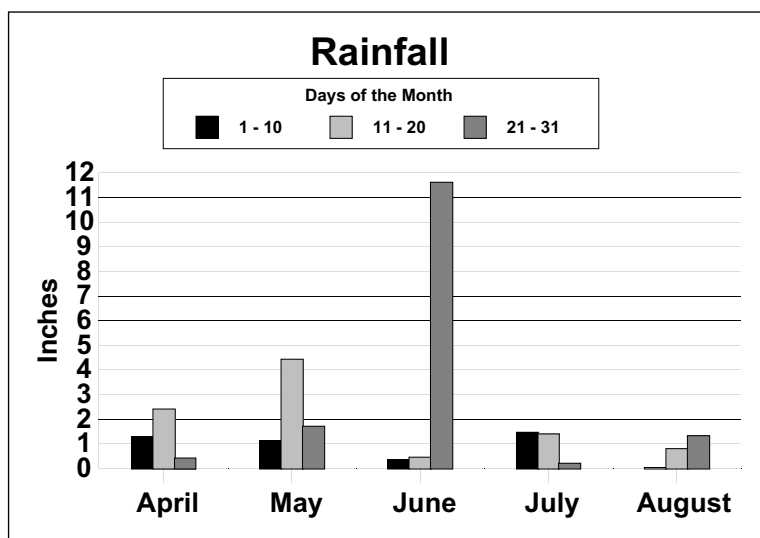
## Crop Summary

The plot area was rowed up in the fall and doled down at planting. Two-inch soil temperatures were good for seed germination. March and April had ample rainfall with 2.3 inches above normal; June had 8.72 inches above normal rainfall. Temperatures were mild throughout the season.

Soil type ..... Bosket very fine sandy loam  
 Soil pH ..... 7.2  
 Soil fertility ..... P=H; K=H  
 Fertilizer added ..... Sidedress — N @ 250 lb/A  
 Herbicide application .... Preemergence — Bicep II  
 @ 2.6 qt/A (3-18-04)  
 Irrigation (furrow) ..... June 10, July 14  
 Previous crop ..... Soybeans  
 Planting date ..... March 17  
 Harvest date ..... August 27

## Rainfall Summary

	Inches
April .....	4.12
May .....	7.25
June .....	12.45
July .....	3.08
August .....	2.15
<b>Total .....</b>	<b>29.05</b>



**Table 17. Results from 75 early-maturing corn hybrids grown with irrigation on a Bosket very fine sandy loam soil at the MAFES Delta Branch Station, Stoneville, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>in</i>	%	
Dyna-Gro	5528BT	253.0	258.3	-	0	49	16.1	36
Unity Seed	715Bt	249.5	-	-	0	46	16.0	31
Belle	Belle 2222RY	249.1	-	-	0	45	16.7	35
Belle	BEX Y004	247.2	-	-	0	47	16.5	32
Genesis	2E15RRYGCB	244.3	-	-	1	46	16.8	33
Terral	TVX26B404	244.0	-	-	0	46	16.8	34
Terral	TV26BR41	243.3	-	-	0	47	16.5	32
Genesis	3214YG	242.0	242.8	251.9	1	48	16.1	35
Belle	BEX RY001	241.8	-	-	1	45	16.5	33
Golden Acres	2831RRB	239.1	-	-	0	42	16.1	32
DEKALB	DKC63-52	238.8	-	-	0	39	16.3	31
Terral	TV25BR23	237.8	236.0	-	0	43	16.2	33
Belle	Belle 1545RY	237.4	-	-	0	45	16.7	33
Genesis	2E15YGCB	233.4	-	-	1	50	16.6	33
Bio Gene	BT 1150	233.2	-	-	1	48	16.4	35
Croplan Genetics	631 RR/BT	231.8	-	-	1	41	16.2	34
DEKALB	DKC63-24	231.7	-	-	0	47	15.8	30
Terral	TV26B82	231.2	-	-	0	45	16.7	27
Terral	TV26BR10n	230.4	237.3	235.1	0	46	16.2	33
Belle	Belle 1533Y	229.2	-	-	1	46	16.3	33

<sup>1</sup>Planted March 17; harvested August 27.

**Table 17 (continued). Results from 75 early-maturing corn hybrids grown with irrigation on a Bosket very fine sandy loam soil at the MAFES Delta Branch Station, Stoneville, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Stalk lodging</b>	<b>Ear height</b>	<b>Moisture content</b>	<b>Harvested stand (x1000)</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<b>%</b>	<i>in</i>	<b>%</b>	
Terral	TVX24B403	226.8	-	-	1	52	16.0	31
Terral	TV2140	226.6	234.6	229.6	2	47	15.8	29
Belle	Belle 1830Y	226.5	-	-	0	49	16.6	33
Genesis	2C15YGCB	225.8	-	-	1	49	16.9	31
Terral	TVX24BR401	225.8	-	-	0	50	16.0	32
Terral	TVX25BR013	224.2	227.2	-	2	49	15.9	33
Croplan Genetics	699 CL/BT/LL	224.1	-	-	1	46	15.8	32
Dyna-Gro	DG57P35	223.9	227.5	227.4	0	46	16.1	30
DEKALB	DKC64-11 (RR2/YGCB)	223.5	224.3	226.5	0	48	15.0	32
Terral	TVX25B404	223.0	-	-	1	52	16.5	30
Terral	TVX24B402	223.0	-	-	0	54	16.9	31
Belle	Belle 1430Y	222.3	235.7	-	0	49	16.7	33
Genesis	3215RR	221.7	226.4	214.0	4	45	16.0	36
Belle	BEX Y006	221.4	-	-	0	52	16.9	33
DEKALB	DKC61-45	221.3	-	-	0	40	15.0	34
FFR	736Bt	220.3	234.6	246.0	1	46	16.1	32
Croplan Genetics	691 BT/LL	219.8	-	-	1	44	16.0	34
Monsanto	NB6502	219.5	-	-	4	44	16.1	33
Belle	BEX C004	219.5	-	-	4	45	16.1	34
DEKALB	DKC60-19	218.3	-	-	0	41	15.8	35
DEKALB	DKC63-81	217.7	-	-	0	43	15.8	32
Terral	TVX24R401	216.5	-	-	3	51	16.1	29
Terral	TVX25B403	214.7	-	-	0	52	16.0	29
Terral	TV25R31	214.6	-	-	4	42	16.7	31
Terral	TV25B30	212.3	219.1	-	0	49	16.4	32
Pioneer	34B20	212.1	-	-	0	40	16.0	33
Terral	TV26B72	212.1	-	-	0	51	17.3	29
Belle	Belle 1540RY	211.5	-	-	0	47	16.1	31
Pioneer	33M54	210.8	221.0	-	4	43	16.5	30
Terral	TV2160Bt	210.3	233.0	232.9	3	49	16.6	30
Belle	Belle 1525R	208.2	-	-	8	49	17.3	32
Monsanto	NB6503	207.9	-	-	3	46	16.2	32
Terral	TV2140nRR	206.7	223.3	219.5	3	49	16.2	30
Golden Acres	GA 2828RR	206.5	223.3	-	3	44	15.9	31
Belle	Belle 1515C	206.2	-	-	6	50	16.5	30
Terral	TVX23R404	205.8	-	-	5	50	16.8	31
Terral	TVX23R401	204.5	-	-	5	49	17.1	31
Belle	BEX Y005	203.9	-	-	0	47	15.8	27
Belle	BEX R004	203.0	-	-	3	52	17.2	32
FFR	748	202.7	225.4	-	5	47	16.1	33
Terral	TV23R31	202.7	-	-	2	50	16.5	30
Genesis	3215C	202.4	215.6	-	4	50	16.6	34
Vigoro	V56Y51	201.8	-	-	0	44	16.3	30
Belle	Belle 1210C	201.7	-	-	4	47	17.0	32
Dyna-Gro	5516RR	201.1	-	-	3	44	15.8	31
Unity Seed	6296	201.0	225.7	-	5	41	16.2	30
Belle	BEX R001	200.5	-	-	4	46	17.2	31
Terral	TV24R10	200.2	218.8	216.7	5	51	17.0	33
Terral	TV23R15n	199.6	208.2	203.8	25	47	15.8	29
FFR	749RR	196.2	-	-	8	44	16.1	33
Terral	TV2130	194.5	216.7	219.8	5	50	15.7	29
Triumph	1416Bt	190.5	-	-	0	46	16.1	34
Terral	TV25R41	188.4	-	-	4	46	16.6	30
Dyna-Gro	DG57K66	181.4	205.2	206.8	7	47	15.7	31
Pioneer	33V15	178.3	-	-	6	43	15.9	28
<b>Overall mean</b>		<b>218.2</b>	<b>226.9</b>	<b>225.4</b>				
<b>LSD (.10)</b>		<b>21.4</b>	<b>13.9</b>	<b>11.6</b>				
<b>Error degrees of freedom</b>		<b>221</b>	<b>131</b>	<b>12.0</b>				
<b>CV (%)</b>		<b>8.4</b>	<b>7.4</b>	<b>7.9</b>				
<b>R<sup>2</sup> (%)</b>		<b>54</b>	<b>63</b>	<b>63</b>				

<sup>1</sup>Planted March 17; harvested August 27.

**Table 18. Results from 47 late-maturing corn hybrids grown with irrigation on a Bosket very fine sandy loam soil at the MAFES Delta Branch, Stoneville, 2004.<sup>1</sup>**

Brand name	Hybrid number	2004 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	%	<i>in</i>	%	
Garst	8200YG1	238.5	245.6	-	0	51	17.3	32
Dyna-Gro	58P59	222.6	229.8	-	0	46	16.3	33
Golden Acres	2841RRB	221.5	-	-	0	50	16.1	32
Garst	8292YG1	221.4	-	-	1	47	17.4	33
FFR	900BT	220.3	231.4	-	1	48	16.5	34
Genesis	2D16YGCB	219.8	235.0	-	0	45	16.8	32
NK Brand	N82-A7	210.1	-	-	0	50	16.8	31
Golden Acres	X6420BT	209.5	-	-	1	52	17.0	31
Monsanto	NB6602EZA1	208.2	-	-	0	42	17.1	32
NK Brand	N83-Z8 (Bt)	207.0	227.7	229.8	1	52	17.0	34
Dyna Gro	CX03118	206.4	-	-	7	52	16.7	32
Dyna Gro	CX03419	205.3	-	-	2	52	16.3	31
DEKALB	DKC69-71 (RR2/YGCB)	204.3	236.8	-	1	50	17.0	33
Pioneer	32D99	204.3	242.1	232.4	4	53	16.8	29
Genesis	2A16YG	202.5	219.1	228.4	1	50	16.4	38
Terral	TVX27B401	202.3	-	-	1	53	16.2	33
Vigoro	V58YR2	201.3	-	-	1	46	17.1	30
Pioneer	31B13	200.2	211.1	221.0	0	50	16.1	26
Terral	TV26B23	200.2	217.8	-	1	55	16.5	33
Pioneer	31G97	199.9	-	-	4	50	16.0	30
Monsanto	NB6703	198.5	-	-	6	48	16.5	35
Dyna-Gro	5515	196.6	210.6	214.3	4	47	16.2	32
Pioneer	31G98	195.8	232.6	230.1	3	49	15.9	29
Bio Gene	BT 4220	195.3	-	-	1	50	16.5	32
Triumph	1866Bt	194.1	221.0	-	1	49	16.2	35
DEKALB	DKC69-72 (RR2)	193.9	222.0	-	5	50	16.9	33
Vigoro	EX284001	192.6	-	-	0	51	15.9	27
Monsanto	NB6802	192.0	-	-	5	49	16.3	33
Monsanto	NA6904	191.1	-	-	2	46	16.6	30
Genesis	4C16RR/YGCB	190.2	213.0	-	1	46	16.0	32
FFR	835BT	188.8	-	-	0	46	16.7	33
Pioneer	31G66	184.8	220.9	-	3	46	16.2	30
NK	N83-N5	184.0	202.3	-	4	52	16.5	34
Dyna-Gro	58K15	183.5	204.1	-	7	46	16.0	33
Pioneer	31R88	183.0	212.0	217.5	2	47	16.3	26
FFR	849CL	182.7	210.2	-	6	48	17.0	32
Genesis	2A16RR	180.1	204.0	206.9	6	48	16.4	34
Monsanto	NA6606EZA3	180.0	-	-	1	47	15.7	29
Dyna Gro	CX03218	177.5	-	-	4	49	17.7	32
Garst	8288	175.9	214.7	209.9	6	47	16.6	32
Pioneer	31R87	174.1	-	-	3	49	16.4	27
Dyna Gro	CX03318	172.4	-	-	2	50	16.9	34
Croplan Genetics	818 RR/BT	168.8	-	-	3	47	17.1	33
Croplan Genetics	872 RR	165.7	-	-	8	49	17.1	34
Pioneer	32R25	162.5	202.8	209.5	3	50	15.9	25
FFR	833RR	160.9	-	-	7	47	16.2	33
Garst	8204RR	152.1	-	-	6	47	16.1	30
<b>Overall mean</b>		<b>194.1</b>	<b>220.4</b>	<b>220.0</b>				
<b>LSD (.10)</b>		<b>25.5</b>	<b>18.9</b>	<b>16.6</b>				
<b>Error degrees of freedom</b>		<b>138</b>	<b>130</b>	<b>90</b>				
<b>CV (%)</b>		<b>11.2</b>	<b>10.3</b>	<b>11.6</b>				
<b>R<sup>2</sup> (%)</b>		<b>54</b>	<b>71</b>	<b>63</b>				

<sup>1</sup>Planted March 17; harvested August 27.



**Table 19. Average grain production, by areas, for early-maturing corn hybrids grown in Mississippi, 2004**

Hybrid number	Brand name	Area I			Area II			Area III		
		2004 yield <sup>1</sup>	2-yr. avg. <sup>2</sup>	3-yr. avg. <sup>2</sup>	2004 yield <sup>3</sup>	2-yr. avg. <sup>3</sup>	3-yr. avg. <sup>4</sup>	2004 yield <sup>5</sup>	2-yr. avg. <sup>5</sup>	3-yr. avg. <sup>5</sup>
Belle	Belle 1210C	145.5	-	-	159.0	-	-	170.7	-	-
Belle	Belle 1533Y	154.4	-	-	174.8	-	-	194.7	-	-
Belle	Belle 2222RY	164.9	-	-	203.2	-	-	186.0	-	-
Belle	Belle1430Y	162.3	173.6	-	167.1	173.5	-	182.5	182.8	-
Belle	Belle1540RY	155.6	-	-	154.0	-	-	184.4	-	-
Belle	Belle BEX R001	164.7	-	-	182.5	-	-	182.1	-	-
Belle	Belle 1830Y	160.5	-	-	184.2	-	-	184.1	-	-
Belle	Belle BEX Y004	164.3	-	-	204.0	-	-	190.5	-	-
Belle	Belle BEX RY001	171.2	-	-	201.3	-	-	201.3	-	-
Belle	Belle BEX Y005	163.0	-	-	183.6	-	-	180.0	-	-
Belle	Belle BEX C004	157.1	-	-	210.0	-	-	182.9	-	-
Belle	Belle 1515C	141.4	-	-	176.9	-	-	181.5	-	-
Belle	Belle 1545RY	177.7	-	-	175.7	-	-	198.2	-	-
Belle	Belle 1525R	163.3	-	-	185.9	-	-	188.4	-	-
Belle	Belle BEX Y006	133.3	-	-	168.9	-	-	184.7	-	-
Belle	Belle BEX R004	143.4	-	-	182.7	-	-	174.6	-	-
BioGene	BT 1150	-	-	-	-	-	-	193.1	-	-
Croplan Genetics	631 RR/Bt	162.9	-	-	-	-	-	196.7	-	-
Croplan Genetics	691Bt/LL	164.1	-	-	-	-	-	191.1	-	-
Croplan Genetics	699CL/Bt/LL	149.1	-	-	-	-	-	190.3	-	-
DEKALB	DKC60-19	154.1	-	-	-	-	-	182.3	-	-
DEKALB	DKC61-45	157.3	-	-	-	-	-	190.4	-	-
DEKALB	DKC63-24	152.5	-	-	-	-	-	193.1	-	-
DEKALB	DKC63-52	153.8	-	-	-	-	-	193.8	-	-
DEKALB	DKC63-81	160.9	-	-	-	-	-	189.2	-	-
DEKALB	DKC64-11	154.2	161.7	166.1	-	-	-	185.1	180.6	192.1
Dyna Gro	DG5516	-	-	-	-	-	-	178.4	-	-
Dyna Gro	DG5545Bt	168.8	-	-	-	-	-	-	-	-
Dyna Gro	DG5528Bt	156.2	162.5	-	201.1	189.8	-	211.2	200.1	-
Dyna Gro	DG57K66	148.0	166.0	177.2	-	-	-	175.5	182.0	185.1
Dyna Gro	DG57P35RR/Bt	159.8	178.5	183.6	180.1	178.6	-	187.0	194.1	197.9
FFR	736Bt	154.6	172.1	177.9	-	-	-	178.0	181.9	198.2
FFR	748	144.5	155.7	-	-	-	-	172.5	190.2	-
FFR	749RR	164.0	-	-	-	-	-	177.3	-	-
Genesis	3214YG	180.1	-	-	-	-	-	190.8	191.9	205.1
Genesis	3215RR	167.7	-	-	-	-	-	192.7	185.3	180.2
Genesis	3215C	-	-	-	-	-	-	189.7	183.3	-
Genesis	2E15RR/YGCB	-	-	-	-	-	-	188.7	-	-
Genesis	2C15YGCB	-	-	-	-	-	-	194.8	-	-
Genesis	2E15YGCB	-	-	-	-	-	-	189.1	-	-
Golden Acres	GA 2828RR	160.3	-	-	-	-	-	175.5	183.0	-
Golden Acres	GA 2831RRB	176.2	-	-	-	-	-	196.0	-	-
Monsanto	NB6502	175.6	-	-	-	-	-	187.2	-	-
Monsanto	NB6503	155.3	-	-	-	-	-	158.7	-	-
Pioneer	33V15	136.0	161.1	-	180.7	178.6	-	176.5	-	-
Pioneer	33M54	159.6	178.9	-	-	-	-	191.6	201.7	-
Pioneer	34B20	124.4	-	-	140.3	-	-	184.4	-	-
Terral	TV2130	152.0	174.2	180.4	172.9	185.0	156.7	182.1	181.8	188.5
Terral	TV2140	161.7	174.2	181.8	179.2	191.3	162.9	192.5	191.1	195.3
Terral	TV2160Bt	145.3	160.8	177.0	164.9	169.8	136.8	177.4	195.1	201.1
Terral	TV26BR10n	165.4	179.7	188.2	184.7	180.2	141.7	198.0	192.4	196.2
Terral	TV24R10	151.0	169.1	175.1	173.2	174.1	135.9	166.9	178.4	183.3
Terral	TV23R15n	162.0	176.5	178.8	162.7	163.0	131.1	176.9	180.1	181.6
Terral	TV2140nRR	153.2	163.4	176.5	166.1	181.2	156.7	170.6	190.6	194.7
Terral	TV25B30	163.8	177.0	-	185.4	184.1	-	184.2	185.1	-
Terral	TV23R31	153.7	-	-	166.9	-	-	176.6	-	-
Terral	TV25R31	178.1	-	-	189.1	-	-	176.4	-	-
Terral	TV26BR41	165.3	-	-	197.2	-	-	191.8	-	-
Terral	TVX24R401	158.1	-	-	195.3	-	-	183.1	-	-
Terral	TVX25BR013	159.8	176.1	-	167.8	174.5	-	196.4	187.6	-
Terral	TVX23R401	143.6	-	-	164.1	-	-	183.8	-	-
Terral	TV25R41	151.8	-	-	192.1	-	-	160.0	-	-
Terral	TVX24B402	148.6	-	-	169.2	-	-	181.2	-	-
Terral	TV26B82	163.8	-	-	185.7	-	-	201.0	-	-
Terral	TVX25BR23	164.8	176.5	-	167.4	174.8	-	192.5	201.3	-
Terral	TV26B72	149.6	-	-	182.2	-	-	185.4	-	-
Terral	TVX25B404	158.9	-	-	160.2	-	-	192.9	-	-
Terral	TVX24B403	149.9	-	-	178.4	-	-	195.9	-	-

<sup>1</sup>Averages of Aberdeen, Brooksville and Hernando.

<sup>2</sup>Averages of Brooksville and Hernando.

<sup>3</sup>Averages of Newton and Raymond.

<sup>4</sup>Average of Raymond only.

<sup>5</sup>Averages of Clarksdale, Stoneville and Yazoo City.

**Table 19 (continued). Average grain production, by areas, for early-maturing corn hybrids grown in Mississippi, 2004.**

Hybrid number	Brand name	Area I			Area II			Area III		
		2004 yield <sup>1</sup>	2-yr. avg. <sup>2</sup>	3-yr. avg. <sup>2</sup>	2004 yield <sup>3</sup>	2-yr. avg. <sup>3</sup>	3-yr. avg. <sup>4</sup>	2004 yield <sup>5</sup>	2-yr. avg. <sup>5</sup>	3-yr. avg. <sup>5</sup>
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
Terral	TVX24BR401	158.8	-	-	175.9	-	-	192.4	-	-
Terral	TVX25B403	167.0	-	-	161.2	-	-	179.9	-	-
Terral	TVX26B404	161.9	-	-	197.3	-	-	189.6	-	-
Terral	TVX23R404	155.3	-	-	178.3	-	-	178.1	-	-
Triumph	1416Bt	-	-	-	-	-	-	175.9	-	-
Unity Seeds	715Bt	-	-	-	-	-	-	211.7	-	-
Unity Seeds	6296	-	-	-	-	-	-	176.2	181.1	-
Vigoro	V56Y51	-	-	-	-	-	-	189.8	-	-
<b>Overall Mean</b>		<b>157.7</b>	<b>170.5</b>	<b>178.4</b>	<b>178.6</b>	<b>178.5</b>	<b>146.1</b>	<b>185.6</b>	<b>187.8</b>	<b>192.2</b>
<b>LSD (.10)</b>		<b>16.3</b>	<b>13.9</b>	<b>11.4</b>	<b>16.6</b>	<b>13.3</b>	<b>14.3</b>	<b>16.8</b>	<b>12.0</b>	<b>8.8</b>
<b>Error degrees of freedom</b>		<b>561</b>	<b>208</b>	<b>194</b>	<b>263</b>	<b>155</b>	<b>59</b>	<b>642</b>	<b>385</b>	<b>355</b>
<b>CV (%)</b>		<b>15.1</b>	<b>13.8</b>	<b>13.8</b>	<b>11.3</b>	<b>12.7</b>	<b>14.9</b>	<b>13.3</b>	<b>13.3</b>	<b>12.1</b>
<b>R2 (%)</b>		<b>55</b>	<b>44</b>	<b>56</b>	<b>86</b>	<b>79</b>	<b>52</b>	<b>64</b>	<b>83</b>	<b>86</b>

<sup>1</sup>Averages of Aberdeen, Brooksville and Hernando.<sup>2</sup>Averages of Brooksville and Hernando.<sup>3</sup>Averages of Newton and Raymond.<sup>4</sup>Average of Raymond only.<sup>5</sup>Averages of Clarksdale, Stoneville and Yazoo City.**Table 20. Average grain production, by areas, for late-maturing corn hybrids grown in Mississippi, 2004**

Hybrid number	Brand name	Area I			Area II			Area III		
		2004 yield <sup>1</sup>	2-yr. avg. <sup>1</sup>	3-yr. avg. <sup>1</sup>	2004 yield <sup>2</sup>	2-yr. avg. <sup>2</sup>	3-yr. avg. <sup>3</sup>	2004 yield <sup>4</sup>	2-yr. avg. <sup>4</sup>	3-yr. avg. <sup>4</sup>
		bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A	bu/A
BT 4220	Bio Gene	-	-	-	-	-	-	173.6	-	-
Croplan Genetics	818 RR/Bt	163.4	-	-	-	-	-	181.1	-	-
Croplan Genetics	872 RR	144.5	-	-	-	-	-	147.0	-	-
DEKALB	DKC69-71	162.9	160.4	-	178.6	182.0	-	202.0	204.6	-
DEKALB	DKC69-72	177.3	163.0	-	182.5	191.1	-	192.5	195.6	-
Dyna Gro	DG5515	-	-	-	160.7	175.0	148.5	174.4	178.0	188.2
Dyna Gro	DG58K15	-	-	-	150.9	166.2	-	173.0	173.6	-
Dyna Gro	DG58K22	-	-	-	171.8	188.9	146.5	-	-	-
Dyna Gro	DG58P59	170.5	-	-	201.4	-	-	190.2	192.1	-
Dyna Gro	CX03118	172.7	-	-	175.8	-	-	173.8	-	-
Dyna Gro	CX03218	147.8	-	-	-	-	-	161.4	-	-
Dyna Gro	CX03318	162.6	-	-	-	-	-	177.1	-	-
Dyna Gro	CX03419	-	-	-	152.2	-	-	179.7	-	-
FFR	833RR	155.9	-	-	164.5	-	-	166.6	-	-
FFR	835Bt	169.4	-	-	-	-	-	193.8	-	-
FFR	849CL	157.4	157.7	-	164.6	-	-	163.8	170.6	-
FFR	900BT	164.5	163.8	-	177.0	-	-	207.2	200.4	-
Garst	8288	-	-	-	-	-	-	174.1	184.7	189.7
Garst	8230IT	158.7	157.0	164.9	-	-	-	-	-	-
Garst	8204RR	-	-	-	-	-	-	158.1	-	-
Garst	8292YG1	157.0	-	-	-	-	-	204.4	-	-
Garst	8200YG1	156.4	155.5	-	-	-	-	200.8	199.9	-
Genesis	2A16YG	153.2	152.6	-	-	-	-	204.0	193.9	206.4
Genesis	2A16RR	152.1	143.6	-	-	-	-	166.2	172.6	178.0
Genesis	4C16RR/YGCB	-	-	-	-	-	-	177.4	187.1	-
Genesis	2D16YGCB	-	-	-	-	-	-	181.4	182.7	-
Golden Acres	GA 2841RRB	171.8	-	-	-	-	-	186.7	-	-
Golden Acres	GA X6420BT	160.4	-	-	-	-	-	216.0	-	-
Monsanto	NA6606EZA3	151.3	-	-	-	-	-	191.8	-	-
Monsanto	NB6602EZA1	173.4	-	-	-	-	-	199.7	-	-
Monsanto	NA6904	157.1	-	-	-	-	-	169.2	-	-
Monsanto	NB6703	170.5	-	-	-	-	-	180.4	-	-
Monsanto	NB6802	162.6	-	-	-	-	-	196.9	-	-
NK Brand	N82-A7	165.6	-	-	175.7	-	-	203.0	-	-
NK Brand	N83-N5	150.7	142.3	-	174.2	176.2	-	168.9	175.2	-
NK Brand	N83-Z8	154.7	150.2	167.6	167.5	181.8	149.2	188.6	193.6	203.8
Pioneer	32R25	163.1	164.5	173.9	155.0	166.2	153.1	153.9	163.0	178.3
Pioneer	31G98	164.3	-	-	-	-	-	181.2	190.2	195.1
Pioneer	31R88	157.5	151.9	164.1	177.6	184.6	144.6	165.5	171.1	182.6
Pioneer	32D99	155.1	153.8	170.9	-	-	-	190.0	198.6	201.1
Pioneer	31B13	157.1	157.2	172.8	145.4	157.1	-	165.6	169.8	185.3

<sup>1</sup>Averages of Aberdeen, Brooksville and Hernando.<sup>2</sup>Averages of Newton and Raymond.<sup>3</sup>Average of Raymond only.<sup>4</sup>Averages of Clarksdale, Stoneville and Yazoo City.

**Table 20 (continued). Average grain production, by areas, for late-maturing corn hybrids grown in Mississippi, 2004.**

Hybrid number	Brand name	Area I			Area II			Area III		
		2004 yield <sup>1</sup>	2-yr. avg. <sup>1</sup>	3-yr. avg. <sup>1</sup>	2004 yield <sup>2</sup>	2-yr. avg. <sup>2</sup>	3-yr. avg. <sup>3</sup>	2004 yield <sup>4</sup>	2-yr. avg. <sup>4</sup>	3-yr. avg. <sup>4</sup>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>
Pioneer	31R87	161.5	-	-	172.5	-	-	158.4	-	-
Pioneer	31G66	149.4	153.7	-	180.2	197.3	-	161.0	176.7	-
Pioneer	31G97	169.7	-	-	-	-	-	189.0	-	-
Terral	TV26B23	157.7	154.3	-	171.4	174.4	-	213.9	203.3	-
Terral	TVX27B401	151.1	-	-	178.6	-	-	214.1	-	-
Triumph	1866Bt	-	-	-	-	-	-	181.5	190.1	-
Vigoro	V58YR2	-	-	-	-	-	-	205.9	-	-
Vigoro	EX284001	-	-	-	-	-	-	173.6	-	-
<b>Overall Mean</b>		<b>160.4</b>	<b>155.2</b>	<b>169.0</b>	<b>170.1</b>	<b>178.2</b>	<b>148.4</b>	<b>182.5</b>	<b>185.5</b>	<b>190.9</b>
<b>LSD (.10)</b>		<b>15.8</b>	<b>12.1</b>	<b>9.5</b>	<b>19.9</b>	<b>15.4</b>	<b>17.5</b>	<b>16.9</b>	<b>11.9</b>	<b>9.5</b>
<b>Error degrees of freedom</b>		<b>312</b>	<b>260</b>	<b>146</b>	<b>118</b>	<b>124</b>	<b>37</b>	<b>411</b>	<b>392</b>	<b>269</b>
<b>CV (%)</b>		<b>14.5</b>	<b>16.1</b>	<b>14.9</b>	<b>14.0</b>	<b>14.4</b>	<b>17.4</b>	<b>13.7</b>	<b>13.4</b>	<b>13.3</b>
<b>R<sup>2</sup> (%)</b>		<b>61</b>	<b>69</b>	<b>75</b>	<b>73</b>	<b>74</b>	<b>51</b>	<b>61</b>	<b>84</b>	<b>82</b>

<sup>1</sup>Averages of Aberdeen, Brooksville and Hernando.

<sup>2</sup>Averages of Newton and Raymond.

<sup>3</sup>Average of Raymond only.

<sup>4</sup>Averages of Clarksdale, Stoneville and Yazoo City.

**Table 21. 2004 Mississippi Corn Leaf Blight Ratings.**

Brand	Entry	Northern Corn Leaf Blight		Southern Corn Leaf Blight	
		Value <sup>1</sup>	Rating <sup>3</sup>	Value <sup>2</sup>	Rating <sup>3</sup>
Belle	1210C	5	R	1.5	R
Belle	1533Y	11.25	R	3	MR
Belle	2222RY	11.25	R	4.25	MR
Belle	1430Y	8.75	R	2.25	R
Belle	1540RY	27.5	MR	4.75	MS
Belle	BEX C004	11.25	R	4.75	MS
Belle	1515C	7.5	R	1.25	R
Belle	BEX R001	7.5	R	3	MR
Belle	1525R	5	R	1.25	R
Belle	BEX R004	7.5	R	2.5	MR
Belle	BEX RY001	8.75	R	2.5	MR
Belle	1545RY	0	R	2.25	R
Belle	1830Y	16.25	MR	3.75	MR
Belle	BEX Y004	10	R	3.75	MR
Belle	BEX Y005	15	R	4	MR
Belle	BEX Y006	2.5	R	3	MR
Croplan	631RR/BT	31.25	MS	6	MS
Croplan	691BT/LL	60	S	3.75	MR
Croplan	699CL/BT/LL	37.5	MS	6.5	MS
Croplan	818RR/BT	57.5	S	5.25	MS
Croplan	872RR	8.75	R	3	MR
DEKALB	DKC60-19	25	MR	4.75	MS
DEKALB	DKC61-45	11.25	R	4.5	MR
DEKALB	DKC63-24	11.25	R	8	S
DEKALB	DKC63-52	17.5	MR	5.5	MS
DEKALB	DKC63-81	7.5	R	6.75	MS
DEKALB	DKC64-11	40	MS	3	MR
DEKALB	DKC69-71	1.25	R	4.75	MS
DEKALB	DKC69-72	12.5	R	5.75	MS
Dyna Gro	5528Bt	15	R	4.5	MR
Dyna Gro	5545Bt	18.75	MR	2.75	MR
Dyna Gro	57K66	18.75	MR	5.25	MS
Dyna Gro	57P35	27.5	MR	4.75	MS
Dyna Gro	58P59	8.75	R	3	MR
Dyna Gro	CX03118	23.75	MR	5	MS
Dyna Gro	CX03218	5	R	2.75	MR
Dyna Gro	CX03318	12.5	R	4.75	MS
FFR	748	26.25	MR	5	MS
FFR	736BT	50	S	7.75	S
FFR	749RR	27.5	MR	5.5	MS
FFR	833RR	30	MS	4.25	MR
FFR	835BT	10	R	2	R

<sup>1</sup>Northern leaf blight values are represented as a percentage of total green leaf area prematurely senesced by blight lesions.

<sup>2</sup>Southern leaf blight values are rated on a scale from 0-9. Low values represent light infection limited to lower leaves, while high values represent heavy infection throughout the leaf canopy, including top leaves.

<sup>3</sup>Legend: XS=Extremely Susceptible; VS=Very Susceptible; S=Susceptible; MS=Moderately Susceptible; MR=Moderately Resistant; and R=Resistant. These disease values and ratings indicate relative hybrid reaction to disease during the 2004 growing season. Because disease incidence is strongly affected by environmental conditions and culture, this data may not necessarily predict hybrid reaction to these diseases in future seasons.

**Table 21 (continued). 2004 Mississippi Corn Leaf Blight Ratings.**

Brand	Entry	Northern Corn Leaf Blight		Southern Corn Leaf Blight	
		Value <sup>1</sup>	Rating <sup>3</sup>	Value <sup>2</sup>	Rating <sup>3</sup>
FFR	849CL	11.25	R	5	MS
FFR	900BT	16.25	MR	3.75	MR
Garst	8200YG1	25	MR	7.25	S
Garst	8230IT	17.5	MR	5.5	MS
Garst	8292YG1	72.5	VS	5.5	MS
Genesis	2A16RR	23.75	MR	4.25	MR
Genesis	2A16YG	30	MS	5.25	MS
Genesis	3214YG	16.25	MR	6.25	MS
Genesis	3215RR	27.5	MR	6.25	MS
Golden Acres	2828RR	20	MR	3.25	MR
Golden Acres	2831RRB	48.75	S	5	MS
Golden Acres	2841RRB	5	R	3.75	MR
Golden Acres	X6420BT	8.75	R	2.25	R
Monsanto	NA6606EZA3	12.5	R	3.25	MR
Monsanto	NA6904	13.75	R	4.5	MR
Monsanto	NB6502	36.25	MS	2	R
Monsanto	NB6503	67.5	VS	6.5	MS
Monsanto	NB6602EZA1	27.5	MR	4.75	MS
Monsanto	NB6703	13.75	R	5.5	MS
Monsanto	NB6802	40	MS	4.5	MR
Pioneer	31B13	5	R	9	S
Pioneer	31G66	65	VS	3.5	MR
Pioneer	31G97	22.5	MR	5.75	MS
Pioneer	31G98	27.5	MR	4.5	MR
Pioneer	31R87	41.25	MS	2.25	R
Pioneer	31R88	32.5	MS	2.25	R
Pioneer	32D99	78.75	XS	2	R
Pioneer	32R25	13.75	R	8.5	S
Pioneer	33M54	60	S	2.25	R
Pioneer	33V15	62.5	VS	1.25	R
Pioneer	34B20	90	XS	3	MR
Syngenta	N82-A7	13.75	R	2.5	MR
Syngenta	N83-N5	30	MS	5.25	MS
Syngenta	N83-Z8	12.5	R	3	MR
Terral	TV2130	13.75	R	4.25	MR
Terral	TV2140	38.75	MS	4.75	MS
Terral	TV2140nRR	35	MS	4.25	MR
Terral	TV2160Bt	8.75	R	4.25	MR
Terral	TV23R15n	27.5	MR	5.5	MS
Terral	TV24R10	8.75	R	3	MR
Terral	TV25B30	15	R	3.5	MR
Terral	TV26B23	38.75	MS	3.5	MR
Terral	TV26BR10n	32.5	MS	4.25	MR
Terral	TV23R31	5	R	4.5	MR
Terral	TVX23R401	15	R	2.5	MR
Terral	TVX23R404	6.25	R	2.75	MR
Terral	TVX24B402	3.75	R	3.25	MR
Terral	TVX24B403	16.25	MR	3.75	MR
Terral	TVX24BR401	11.25	R	3.5	MR
Terral	TVX24R401	27.5	MR	3.25	MR
Terral	TVX25B403	16.25	MR	4.25	MR
Terral	TVX25B404	16.25	MR	3.75	MR
Terral	TVX25BR013	23.75	MR	6	MS
Terral	TVX25BR23	12.5	R	4.75	MS
Terral	TV25R31	12.5	R	2.75	MR
Terral	TV25R41	7.5	R	1.75	R
Terral	TV26B72	7.5	R	3.5	MR
Terral	TVX26B403	5	R	2.5	MR
Terral	TVX26B404	8.75	R	5	MS
Terral	TV26BR41	1.25	R	1.75	R
Terral	TVX27B401	11.25	R	3.5	MR
<b>LSD (0.05)</b>		<b>12.3</b>		<b>2.12</b>	

<sup>1</sup>Northern leaf blight values are represented as a percentage of total green leaf area prematurely senesced by blight lesions.

<sup>2</sup>Southern leaf blight values are rated on a scale from 0-9. Low values represent light infection limited to lower leaves, while high values represent heavy infection throughout the leaf canopy, including top leaves.

<sup>3</sup>Legend: XS=Extremely Susceptible; VS=Very Susceptible; S=Susceptible; MS=Moderately Susceptible; MR=Moderately Resistant; and R=Resistant. These disease values and ratings indicate relative hybrid reaction to disease during the 2004 growing season. Because disease incidence is strongly affected by environmental conditions and culture, this data may not necessarily predict hybrid reaction to these diseases in future seasons.

**Table 22. Results from grain sorghum varieties grown on a Sharkey clay soil at the MAFES Delta Branch, Stoneville, 2004.<sup>1</sup>**

<b>Brand name</b>	<b>Hybrid number</b>	<b>2004 yield</b>	<b>2-year average</b>	<b>3-year average</b>	<b>Head exertion <sup>2</sup></b>	<b>Plant height <sup>3</sup></b>	<b>Moisture content</b>
		<i>bu/A</i>	<i>bu/A</i>	<i>bu/A</i>	<i>in</i>	<i>in</i>	<i>%</i>
SS-650	Southern States	123.5	111.8	87.0	5	50	16.7
X204	Monsanto	118.7	117.3	-	7	45	16.7
TV93S72	Terral	116.5	109.5	89.0	5	46	16.4
TV96H81	Terral	115.9	104.4	91.4	5	50	16.8
751B	Dyna-Gro	111.4	-	-	3	47	16.9
SS-800	Southern States	110.3	106.6	85.8	7	48	16.5
TVX95S25	Terral	109.8	111.4	-	5	49	16.6
A603	Asgrow	109.1	105.6	-	8	54	16.7
84G62	Pioneer	107.5	119.7	94.3	4	47	16.8
83G66	Pioneer	106.3	111.2	86.8	5	52	16.6
N3401	Garst	104.0	-	-	7	47	16.8
TV9421	Terral	104.0	107.3	89.5	6	49	16.8
3827	Golden Acres	102.0	-	-	6	53	17.1
TV1050	Terral	98.6	106.5	84.3	4	47	16.7
GA444E	Golden Acres	95.0	107.8	89.9	8	51	17.2
TVX95B304	Terral	94.8	-	-	8	56	17.2
TVX94S34	Terral	93.9	105.8	-	9	52	16.8
X1753B	Dyna-Gro	92.2	100.9	88.5	7	48	17.1
5440	Garst	92.1	102.6	84.3	3	46	16.5
GA3552	Golden Acres	90.1	-	-	7	51	16.8
83G15	Pioneer	90.0	102.8	-	2	49	17.0
TVX93S16	Terral	89.0	101.5	-	7	53	17.6
5515	Garst	88.5	88.4	75.6	8	51	16.7
X1781	Dyna Gro	85.7	-	-	3	47	17.2
GA3694	Golden Acres	83.6	97.4	82.1	5	49	16.8
X1755	Dyna Gro	82.5	-	-	3	44	17.0
TR461	Triumph	79.4	88.7	-	5	56	16.7
TR82-G	Triumph	79.3	79.9	68.4	4	54	17.3
TVX95B319	Terral	75.0	-	-	7	43	16.7
TVX95B303	Terral	72.2	-	-	5	52	16.2
X1782	Dyna Gro	61.9	-	-	4	57	18.2
X304	Monsanto	60.9	-	-	7	54	18.2
A567	Asgrow	59.8	-	-	3	53	20.0
DKS 54-00	DEKALB	35.1	-	-	10	56	20.1
<b>Overall mean</b>		<b>92.3</b>	<b>104.1</b>	<b>85.5</b>			
<b>LSD (.10)</b>		<b>23.8</b>	<b>14.0</b>	<b>11.0</b>			
<b>Error degrees of freedom</b>		<b>99</b>	<b>119</b>	<b>116</b>			
<b>CV (%)</b>		<b>22.0</b>	<b>16.2</b>	<b>18.9</b>			
<b>R<sup>2</sup> (%)</b>		<b>57</b>	<b>49</b>	<b>82</b>			

<sup>1</sup>Planted April 28; harvested September 1.  
Herbicide: Preemergence — Bicep II @ 2.6 qt/A.  
Fertilizer: Sidedress — N @ 100 lb/A.

<sup>2</sup>Head Exertion = Distance in inches from the flag leaf to base of panicle.

<sup>3</sup>Plant Height = Height in inches from the soil surface to the top of the grain head.

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USDA Agricultural Research Service  
Crop Science Research Laboratory

## GRAIN SORGHUM SOURCES

Garst Seed Company 761 Walnut Knoll Lane Suite 200 Cordova, TN 38018	5440 5515 N3401 (Exp.)	
Golden Acres Genetics P.O. Box 579 Buchanan Dam, TX 78609	GA3694 GA3827	GA444E GA3552
Monsanto Co. RR 3 BOX 119 Plainview, TX 79072	A567 A603 DKS 54-00	X304 (Exp.) X204 (Exp.)
Pioneer Hi-Bred Int., Inc. 7501 Memorial Pkwy. SE, Ste 205 Huntsville, AL 35802	83G66 83G15 84G62	
Southern States Coop P.O. Box 26234 Richmond, VA 23260	SS650 SS800	
Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254	TV9421 TV1050 TV93S72 TV96H81 TVX93S16 (Exp.)	TVX94S34 (Exp.) TVX95B303 (Exp.) TVX95B304 (Exp.) TVX95B319 (Exp.) TVX95S25 (Exp.)
Triumph Seed Co., Inc. P.O. Box 1050 Ralls TX 79357	TR 82-G TR461	
UAP MidSouth 57 Germantown Court Suite 200 Cordova TN 38018	DG X1753 (Exp.) DG X1755 (Exp.) DG X1781 (Exp.)	DG X1782 (Exp.) DG X751B

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