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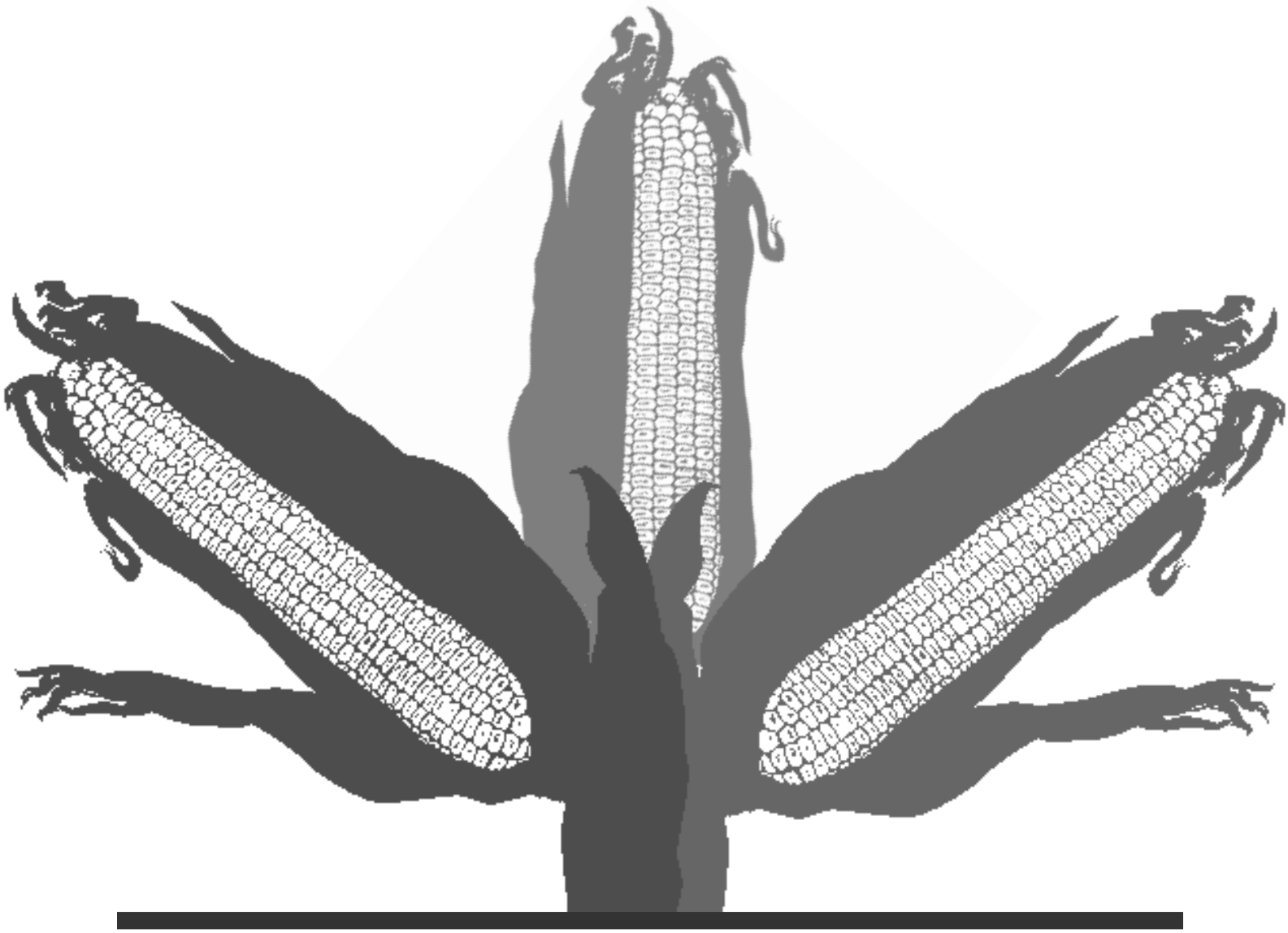
MISSISSIPPI

Corn for Grain



HYBRID TRIALS, 2006

Experiment Station
Vance H. Watson, Director

Mississippi Agricultural & Forestry Experiment Station
Robert H. Foglesong, President • Mississippi State University • Vance H. Watson, Vice President

NOTICE TO USER

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 2-4 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 2-4.

Mississippi Corn for Grain Hybrid Trials, 2006

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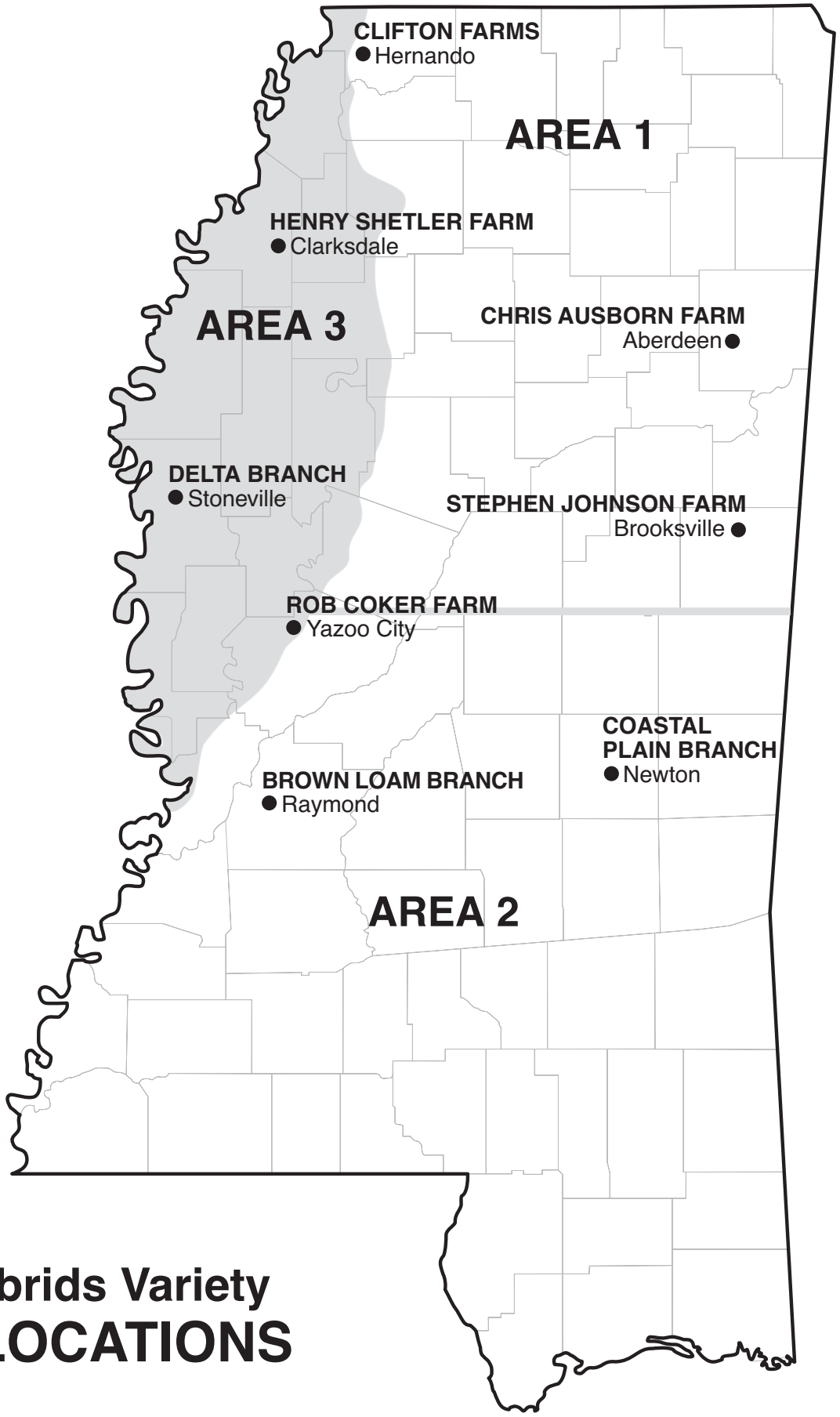

Corn Hybrids Variety
TEST LOCATIONS

Mississippi Corn for Grain Hybrid Trials, 2006

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 (three irrigated locations) (see map). 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, 15 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 were furrow irrigated as necessary.

Variables Measured in the Corn Hybrid Tests

Yield: An Almaco SPC 40 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 2006 corn hybrid trials.

Location	Maturity[1]	No. of entries	Planting date	Harvest date
Area I				
Clifton Farms[2]	Early	39	March 28	August 24
(Hernando)	Late	33	March 28	August 24
Stephen Johnson Farms	Early	39	March 29	August 14
(Brooksville)	Late	33	March 29	August 14
Chris Ausborn Farm	Early	39	March 31	August 15
(Aberdeen)	Late	33	March 31	August 15
Area II				
Coastal Plain Branch[2]	Early	34	March 27	August 9
(Newton)	Late	23	March 27	August 9
Brown Loam Branch	Early	34	March 15	August 16
(Raymond)	Late	23	March 15	August 16
Area III				
Rob Coker Farm	Early	42	March 17	August 23
(Yazoo City)	Late	36	March 17	August 23
Henry Shetler Farm	Early	42	March 28	August 25
(Clarksdale)	Late	36	March 28	August 25
Delta Branch	Early	42	March 30	August 22
(Stoneville)	Late	36	March 30	August 22

[1]Early maturity = 115 days or less; late maturity = 116 days or more.
[2]Statistical analysis indicated that data were too variable to provide useful varietal information. Therefore, data from these locations were not published.

Table 2. Characteristics provided by sponsoring companies for corn hybrids entered in the 2006 Mississippi variety trials.

Company	Hybrid	Trait [1]	Planting rate (x1000)	Days to maturity
Belle Southern Hybrids	Belle 1525R	RR	28/32	117
P.O. Box 9	Belle 1533Y	YG	28/32	115
Waldenburg, AR 72475	Belle 1545RY	RR/YG	28/32	115
870-579-2286	Belle 1747RY	RR/YG	28/32	117
Croplan Genetics	631 RR/Bt	RR/Bt	28	111
P.O. Box 42	691RR	RR	28	113
Cary, MS 39054	799RR	RR	28	117
662-873-7251	818RR/Bt	RR/Bt	32	118
	851RR/Bt	RR/Bt	30	118
FFR Seed	756RRBT	RR/Bt	28/32	115
969 Cloverleaf Drive	843RRBT	RR/Bt	24/28	117
Southaven, MS 38671				
901-652-0903				
Garst Seed Co.	8225YG1/RR	YG1/RR	28	117
2369 330th St.	8247YG1	YG1/RR	28	117
P.O. Box 500	8287RR	RR	28	116
Slater, IA 50244	8295YG1/RR	YG1/RR	28	117
318-396-7037	8377YG1/RR	YG1/RR	28	115
	8378YG1	YG1	28	114
Golden Acres Genetics	GA 2831RRB	RR/Bt	32	115
P.O. Box 579	GA 2841RRB	RR/Bt	32	117
Buchanan Dam, TX 78609	GA 2988RRB	RR/Bt	32	118
512-793-5205	GA 2993RRB	RR/Bt	28	119
Monsanto Company	DKC60-19	RR2/YGCB	28/30	110
800 N. Lindbergh Blvd.	DKC61-45	RR2/YGCB	28/30	111
St. Louis, MO 63167	DKC61-72	RR2	28/30	111
314-694-1000	DKC63-46	RR2/YGCB	28/30	113
	DKC63-62	RR2	28/30	113
	DKC64-27	RR2	28/30	114
	DKC64-81	YGCB	28/30	114
	DKC66-23	RR2/YGCB	28/30	116
	DKC67-23	RR2/YGCB	28/30	117
	DKC69-71	RR2/YGCB	28/30	119
	DKC69-72	RR2	28/30	119
NK Brand	NK N70-T9	Bt/LL/CL	32	110
6711 Hare Hill Drive	NK N82-A7	Bt/LL	32	118
Arlington, TN 380002				
901-382-5265				
Pioneer Hi-Bred Intl.	31D58		28/32	119
7501 Memorial Pky. SW	31G96	RR/YG/LL	28	117
Suite 205	31P41	RR	28	118
Huntsville, AL 35802	31R87	RR/YG/LL	28	120
256-650-4223	32B29	RR	28	118
	33M53		28/32	115
	33N56		32	112
Royster-Clark, Inc.	V58YR2	YG/RR2	28/32	117
717 Robinson Rd. SE	V59YR52	YG/RR2	28	119
Washington C.H., OH 43160	V62R66	RR	28/32	121
740-869-2181				

[1]RR = Incorporates Roundup Ready Technology; IT, CL, IMI = Incorporates CLEARFIELD Technology; Bt, YG = Corn Borer Protection Technology.

Table 2 (continued). Characteristics provided by sponsoring companies for corn hybrids entered in the 2006 Mississippi variety trials.

Company	Hybrid	Trait [1]	Planting rate (x1000)	Days to maturity
Terral Seed, Inc.	TV23R31	RR	28	113
P.O. Box 826	TV25BR23	Bt/RR	32	115
Lake Providence, LA 71254	TV25R31	RR	30	115
318-559-2840	TV26B34	Bt	30	115
	TV26B82	Bt	30	115
	TV26BR10n	Bt/RR	32	115
	TV26BR41	Bt/RR	30	115
	TV27C48		30	115
	TVX24BR601	Bt/RR	30	114
	TVX25BR601 (E)	Bt/RR	28	115
	TVX25BR602 (E)	Bt/RR	32	115
	TVX25BR603 (E)	Bt/RR	28	115
	TVX25BR604 (E)	Bt/RR	28	115
	TVX26BR601 (E)	Bt/RR	32	116
	TV26BR61	Bt/RR	32	115
UAP Distribution, Inc.	DG5515		32	117
7251 West 4th St.	DG5528Bt	Bt	32	115
Greeley, CO 80634	DG56K70	RR	32	109
601-856-3314	DG57F87	Bt	32	115
	DG57K58	RR	32	115
	DG57N96		32	114
	DG57P12	RR/Bt	32	115
	DG57P35	RR	32	115
	DG57P46	RR/Bt	32	113
	DG58K02	RR	32	116
	DG58K15	RR	32	117
	DG58K22	RR	32	118
	DG58K56	RR	32	118
	DG58P59	RR/Bt	32	116
	DG58P60	RR/Bt	32	120
	DG CX05218 (E)	RR/Bt	32	118
	DG CX05516 (E)	RR	32	118
UniSouth Genetics, Inc.	BG CB1143	Bt	24/32	114
2640-C Nolensville Rd.	BG RRCB1163	Bt/RR	24/32	114
Nashville, TN 37211	FB 814CB	Bt	28	115
615-242-3397	FB 905RRCB	RR/Bt	28	116
	FB 927RRCB	RR/Bt	28	117

[1]RR = Incorporates Roundup Ready Technology; IT, CL, IMI = Incorporates CLEARFIELD Technology; Bt, YG = Corn Borer Protection Technology.

Table 3. Average grain production, by areas, for early-maturing corn hybrids grown in Mississippi, 2006

Hybrid number	Brand name	Area I			Area II			Area III		
		2006 yield[1]	2-yr. avg.[1]	3-yr. avg.[2]	2006 yield[3]	2-yr. avg.[3]	3-yr. avg.[3]	2006 yield[4]	2-yr. avg.[4]	3-yr. avg.[5]
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Belle	Belle 1533Y	108.4	127.1	—	183.1	165.8	—	237.7	217.1	—
Belle	Belle 1545RY	108.7	143.2	—	160.0	144.4	—	230.6	214.4	—
BioGene	BG CB1143	118.9	—	—	—	—	—	241.0	—	—
BioGene	BG RRCB1163	120.1	—	—	—	—	—	217.9	—	—
Croplan Genetics	631 RR/Bt	120.8	137.9	—	175.2	—	—	226.4	211.5	—
Croplan Genetics	691RR	117.9	—	—	167.0	—	—	228.0	—	—
DEKALB	DKC60-19	102.8	126.5	—	179.7	—	—	215.3	198.8	—
DEKALB	DKC61-45	124.4	138.5	—	163.7	—	—	225.9	208.1	—
DEKALB	DKC61-72	112.8	—	—	181.1	—	—	223.0	—	—
DEKALB	DKC63-46	124.9	—	—	162.1	—	—	215.1	—	—
DEKALB	DKC63-62	117.2	—	—	187.0	—	—	234.9	—	—
DEKALB	DKC64-27	136.1	—	—	179.8	—	—	228.0	—	—
DEKALB	DKC64-81	102.3	—	—	174.5	—	—	238.9	—	—
Dyna-Gro	DG5528Bt	93.2	124.0	125.7	162.8	160.9	154.5	239.0	225.7	213.8
Dyna-Gro	DG56K70	119.7	—	—	—	—	—	—	—	—
Dyna-Gro	DG57F87	114.7	—	—	182.4	—	—	235.3	—	—
Dyna-Gro	DG57K58	112.2	—	—	173.7	—	—	235.2	—	—
Dyna-Gro	DG57N96	127.8	—	—	182.1	—	—	239.8	—	—
Dyna-Gro	DG57P12	110.5	—	—	168.2	—	—	236.7	—	—
Dyna-Gro	DG57P35	104.8	128.4	138.6	162.0	146.6	142.9	219.1	203.0	202.5
Dyna-Gro	DG57P46	110.1	—	—	147.6	—	—	234.6	—	—
Farmer's Best	FB 814CB	109.5	—	—	—	—	—	236.5	—	—
FFR	756RRBT	107.8	—	—	—	—	—	233.0	—	—
Garst	8377YG1/RR	—	—	—	—	—	—	232.1	—	—
Garst	8378YG1	—	—	—	—	—	—	221.5	—	—
Golden Acres	GA 2831RRB	—	—	—	—	—	—	236.7	217.2	—
NK Brand	NK N70-T9	—	—	—	—	—	—	214.6	—	—
Pioneer	33M53	107.9	—	—	166.2	—	—	250.9	—	—
Pioneer	33N56	114.4	—	—	187.2	—	—	219.4	—	—
Terral	TV23R31	89.4	121.5	—	164.4	137.4	—	215.2	195.9	—
Terral	TV25BR23	120.9	149.3	160.3	175.8	158.4	157.4	243.4	217.9	215.3
Terral	TV25R31	123.4	149.1	—	173.2	158.9	—	232.2	204.3	—
Terral	TV26B34	120.2	—	—	184.6	—	—	239.7	—	—
Terral	TV26B82	115.6	137.0	—	175.3	161.4	—	238.1	220.4	—
Terral	TV26BR10n	101.5	130.3	135.9	162.6	155.0	149.2	230.9	214.5	205.6
Terral	TV26BR41	116.5	138.6	—	169.7	169.1	—	228.2	210.0	—
Terral	TV27C48	107.8	—	—	168.2	—	—	207.5	—	—
Terral	TVX24BR601	100.9	—	—	161.0	—	—	219.4	—	—
Terral	TVX25BR601 (E)	83.4	—	—	143.4	—	—	215.1	—	—
Terral	TVX25BR602 (E)	96.7	—	—	181.2	—	—	216.1	—	—
Terral	TVX25BR603 (E)	126.2	—	—	172.5	—	—	216.5	—	—
Terral	TVX25BR604 (E)	115.7	—	—	173.2	—	—	225.5	—	—
Terral	TVX26BR61	126.1	—	—	178.9	—	—	234.2	—	—
Overall Mean		112.6	134.7	140.1	171.4	155.8	151.0	228.8	211.2	208.3
LSD (.10)		9.8	11.6	14.8	26.9	16.2	16.0	15.8	11.2	8.8
Error degrees of freedom		228	143	27	98	54	27	369	230	78
CV (%)		10.6	14.6	15.2	13.3	12.4	15.3	10.2	11.1	10.6
R^2 (%		91	85	91	38	62	60	77	50	89

[1]Averages of Aberdeen and Brooksville.
[2]Average of Brooksville only.
[3]Average of Raymond only.
[4]Averages of Clarksdale, Stoneville and Yazoo City.

Table 4. Average grain production, by areas, for late-maturing corn hybrids grown in Mississippi, 2006

Hybrid number	Brand name	Area I			Area II			Area III		
		2006 yield[1]	2-yr. avg.[1]	3-yr. avg.[1]	2006 yield[2]	2-yr. avg.[2]	3-yr. avg.[2]	2006 yield[3]	2-yr. avg.[3]	3-yr. avg.[3]
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Belle	1525R	113.3	—	—	168.0	—	—	220.0	—	—
Belle	1747RY	117.7	—	—	184.2	—	—	231.5	—	—
Croplan Genetics	799RR	121.4	—	—	190.0	—	—	226.5	—	—
Croplan Genetics	818RR/Bt	114.3	135.9	—	149.1	—	—	223.8	201.5	—
Croplan Genetics	851RR/Bt	115.4	—	—	176.5	—	—	240.0	—	—
DEKALB	DKC66-23	117.3	—	—	174.9	—	—	232.9	—	—
DEKALB	DKC67-23	115.4	—	—	179.2	—	—	221.0	—	—
DEKALB	DKC69-71	92.1	125.5	129.0	152.0	140.6	149.3	214.7	208.1	207.8
DEKALB	DKC69-72	86.6	126.8	129.6	166.1	151.8	155.6	230.3	211.4	207.4
Dyna-Gro	DG5515	121.3	—	—	172.1	160.4	156.5	222.3	198.4	192.8
Dyna-Gro	DG58K02	119.5	—	—	167.1	—	—	234.4	—	—
Dyna-Gro	DG58K15	114.0	—	—	175.1	165.6	157.3	214.6	193.8	187.3
Dyna-Gro	DG58K22	100.8	—	—	175.3	166.5	167.3	233.9	—	—
Dyna-Gro	DG58K56	113.0	—	—	179.2	—	—	222.0	—	—
Dyna-Gro	DG58P59	114.7	136.3	—	185.3	179.7	—	236.0	213.1	206.7
Dyna-Gro	DG58P60	109.4	—	—	169.0	—	—	237.0	—	—
Dyna-Gro	DG CX05218 (E)	128.7	—	—	171.4	—	—	239.1	—	—
Dyna-Gro	DG CX05516 (E)	111.6	—	—	175.0	—	—	228.9	—	—
Farmer's Best	FB 905RRCB	122.3	—	—	—	—	—	212.4	—	—
Farmer's Best	FB 927RRCB	111.7	—	—	—	—	—	222.2	—	—
FFR	843RRBT	102.9	—	—	154.4	—	—	229.0	—	—
Garst	8225YG1/RR	119.6	—	—	—	—	—	217.0	—	—
Garst	8247YG1	125.1	—	—	—	—	—	238.8	—	—
Garst	8287RR	132.8	—	—	—	—	—	211.9	—	—
Garst	8295YG1/RR	116.1	—	—	—	—	—	223.3	—	—
Golden Acres	GA 2841RRB	—	—	—	—	—	—	234.8	—	—
Golden Acres	GA 2988RRB	—	—	—	—	—	—	210.5	—	—
Golden Acres	GA 2993RRB	—	—	—	—	—	—	216.5	—	—
NK Brand	NK N82-A7	—	—	—	—	—	—	200.7	201.9	—
Pioneer	31D58	106.1	—	—	177.8	—	—	247.9	—	—
Pioneer	31G96	131.1	—	—	—	—	—	238.0	—	—
Pioneer	31P41	121.7	—	—	177.2	—	—	235.2	—	—
Pioneer	31R87	129.5	144.2	—	178.2	157.4	—	—	—	—
Pioneer	32B29	—	—	—	—	—	—	256.3	—	—
Terral	TVX26BR601 (E)	128.0	—	—	163.1	—	—	246.4	—	—
Vigoro	V58YR2	126.7	—	—	—	—	—	203.2	204.7	—
Vigoro	V59YR52	111.1	—	—	—	—	—	—	—	—
Vigoro	V62R66	115.4	—	—	—	—	—	225.7	—	—
Overall Mean		116.0	129.3	133.7	172.2	159.9	157.2	227.5	204.1	200.3
LSD (.10)		10.8	7.6	9.3	19.2	16.5	13.0	17.5	13.7	10.2
Error degrees of freedom		192	18	48	66	35	35	299.	121	106
CV (%)		11.3	11.7	11.8	9.5	12.1	11.9	11.2	13.8	12.9
R^2 (%)		86	96	92	49	64	67	83	77	87

[1]Averages of Aberdeen and Brooksville.
[2]Average of Raymond only.
[3]Averages of Clarksdale, Stoneville and Yazoo City.

STEPHEN JOHNSON FARM, BROOKSVILLE

Crop Summary

Corn emerged to a good stand. Early-season plant growth and development was excellent, but acute water deficit beginning in late May severely stressed corn, causing substantial grain yield reduction.

Soil type	**Brooksville silty clay**
Soil pH	**6.4**
Soil fertility	**P=M; K=M**
Fertilizer added	**Lime @ 2 tons/A**
	Postemergence — N @ 180 lb/A
Herbicide application	**Preemergence — Atrazine @ 1 qt/A**
	+ Dual II Magnum @ 1.5 pt/A (Broadcast)
	Postemergence — Callisto @ 3 oz/A
	+ Atrazine @ 10 oz/A (Broadcast)
Previous crop	**Cotton**
Planting date	**March 29**
Harvest date	**August 14**

Rainfall Summary

	Inches
April	**2.28**
May	**3.30**
June	**0.50**
July	**0.50**
August	**0**
Total	**6.58**

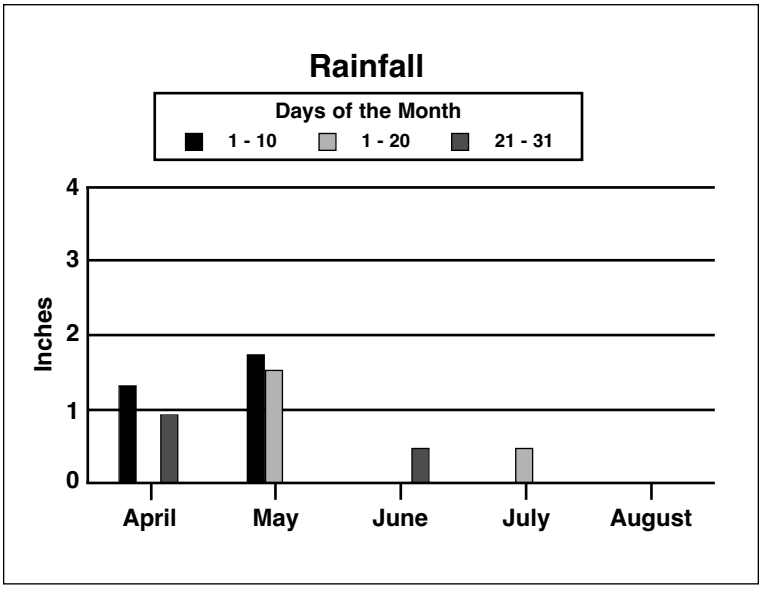

Table 5. Results from 39 early-maturing corn hybrids grown without irrigation on a Brooksville silty clay soil near Brooksville, Noxubee County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
DEKALB	DKC64-27	117.9	—	—	0	33	16.3	31
Dyna-Gro	DG57N96	112.0	—	—	0	32	15.9	33
Dyna-Gro	DG56K70	105.3	—	—	0	38	15.9	33
DEKALB	DKC61-45	100.9	138.8	—	0	36	15.6	31
Terral	TV25R31	99.7	148.7	—	0	32	16.4	33
BioGene	BG RRCB1163	99.3	—	—	0	31	16.1	25
Terral	TV25BR23	98.3	145.9	160.3	0	29	15.8	33
Terral	TVX25BR603 (E)	97.7	—	—	0	35	16.0	30
Terral	TV26B34	96.2	—	—	0	36	15.7	33
Terral	TV26BR61	95.8	—	—	0	33	16.3	32
Terral	TVX25BR604 (E)	94.8	—	—	0	32	16.1	29
BioGene	BG CB 1143	94.7	—	—	0	35	16.2	26
DEKALB	DKC61-72	94.5	—	—	0	33	16.1	30
DEKALB	DKC63-46	93.7	—	—	0	29	15.3	31
Croplan Genetics	631RR/BT	91.0	122.9	—	0	26	15.3	30
Terral	TV26B82	88.6	131.5	—	0	37	16.5	31
Terral	TV26BR41	86.4	119.0	—	0	33	15.1	33
Terral	TVX24BR601	86.0	—	—	0	36	17.7	32
Croplan Genetics	691RR	85.9	—	—	0	34	15.5	30
FB	FB 814CB	84.3	—	—	0	37	15.7	31
FFR	756RRBT	83.6	—	—	0	36	15.6	31
Terral	TV27C48	83.5	—	—	0	39	15.6	32
Pioneer	33M53	83.2	—	—	0	27	16.7	31
Dyna-Gro	DG57P46	81.2	—	—	0	31	15.7	34
DEKALB	DKC63-62	80.0	—	—	0	36	15.6	31
Terral	TVX25BR602 (E)	79.8	—	—	0	39	16.3	34
DEKALB	DKC60-19	77.1	124.6	—	0	28	15.1	30
Pioneer	33N56	76.2	—	—	0	33	17.2	31
Dyna-Gro	57F87	74.9	—	—	0	30	15.0	33
Dyna-Gro	DG57K58	72.2	—	—	0	35	15.4	33
Dyna-Gro	DG57P35	68.8	124.2	138.6	0	33	15.4	33
Belle	Belle 1545RY	68.2	135.1	—	0	32	15.1	30
DEKALB	DKC64-81	66.6	—	—	0	28	15.1	30
Dyna-Gro	DG57P12	66.2	—	—	0	28	15.2	32
Terral	TV26BR10n	65.5	117.6	135.9	0	32	15.8	34
Belle	Belle 1533Y	60.2	111.9	—	0	36	14.8	30
Terral	TVX25BR601 (E)	58.6	—	—	0	41	16.8	30
Terral	TV23R31	55.3	111.4	—	0	30	16.8	33
Dyna-Gro	5528BT	54.2	97.5	125.7	0	36	15.5	32
Overall mean		84.1	125.3	140.1				
LSD (.10)		15.1	19.6	14.8				
Error degrees of freedom		114	71	27				
CV (%)		15.3	18.6	15.2				
R^2 (%)		71	87	91				

[1]Planted March 29; harvested August 14.

Table 6. Results from 33 late-maturing corn hybrids grown without irrigation on a Brooksville silty clay soil near Brooksville, Noxubee County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Pioneer	31G96	116.9	—	—	0	40	16.0	30
Pioneer	31R87	111.4	150.6	—	0	36	17.0	29
Garst	8287RR	109.6	—	—	0	37	16.8	31
Farmers Best	FB 905RRCB	108.9	—	—	0	32	16.5	31
Vigoro	V58YR2	108.1	—	—	0	32	15.7	31
Dyna-Gro	DG CXO5218	107.0	—	—	0	37	16.4	31
Vigoro	V62R66	105.1	—	—	0	35	17.5	30
Belle	Belle 1747RY	100.4	—	—	0	40	16.7	30
Garst	8247YG1	99.3	—	—	0	34	16.9	30
Terral	TVX26BR601 (E)	99.2	—	—	0	35	16.4	31
Dyna-Gro	DG58K02	98.9	—	—	0	35	16.3	31
Pioneer	31P41	97.3	—	—	0	35	16.4	29
Belle	Belle 1525R	96.1	—	—	0	38	17.4	29
Croplan Genetics	818RR/Bt	94.3	145.0	—	0	34	17.1	29
Dyna-Gro	5515	94.0	—	—	0	35	16.1	30
Garst	8225YG1/RR	93.2	—	—	0	29	16.5	32
Garst	8295YG1/RR	93.0	—	—	0	36	17.2	33
Croplan Genetics	799RR	93.0	—	—	0	31	16.8	32
Croplan Genetics	851RR/Bt	90.8	—	—	0	34	15.6	30
Vigoro	V59YR52	88.3	—	—	0	36	15.4	31
Dyna-Gro	DG58P60	88.1	—	—	0	37	18.0	30
Dyna-Gro	58K15	86.5	—	—	0	32	16.3	32
Dyna-Gro	DG58K56	86.5	—	—	0	36	17.3	32
Farmers Best	FB 927RRCB	86.3	—	—	0	38	15.9	30
Dyna-Gro	DG CXO5516	83.9	—	—	0	35	16.0	31
DEKALB	DKC67-23	82.0	—	—	0	33	15.7	30
DEKALB	DKC66-23	79.5	—	—	0	33	15.5	31
Dyna-Gro	DG58K22	75.0	—	—	0	37	16.0	31
FFR	843RRBT	75.0	—	—	0	34	15.6	26
Pioneer	31D58	74.6	—	—	0	36	16.0	28
DEKALB	DKC69-71 (RR2/YGCB)	72.8	132.3	142.6	0	40	16.8	30
Dyna-Gro	58P59	64.9	120.6	—	0	31	15.6	32
DEKALB	DKC69-72 (RR2)	63.9	127.5	143.3	0	36	15.8	31
Overall mean		91.6	135.2	143.0				
LSD (.10)		15.6	14.3	12.8				
Error degrees of freedom		96	24	9				
CV (%)		14.5	12.4	11.9				
R^2 (%)		59	95	96				

[1]Planted March 29; harvested August 14.

CHRIS AUSBORN FARM, ABERDEEN

Crop Summary

Corn was planted at an optimum time and emerged to a good stand. However, acute water deficit beginning in late May severely stressed corn, causing substantial grain yield reduction. Insect pressure was light.

Soil type	Houston clay
Soil pH	6.3
Soil fertility	P=H; K=M
Fertilizer added	Preplant — 0-26-26 @ 250 lb/A
	Postemergence — N @ 200 lb/A + Zinc @ 1lb/A
Herbicide application	Postemergence — Atrazine @ 2 qt/A
	+ Accent @ 0.67 oz/A (Broadcast)
Previous crop	Soybeans
Planting date	March 31
Harvest date	August 15

Rainfall Summary

	Inches
April	1.90
May	3.40
June	0.75
July	1.35
August	2.75
Total	10.15

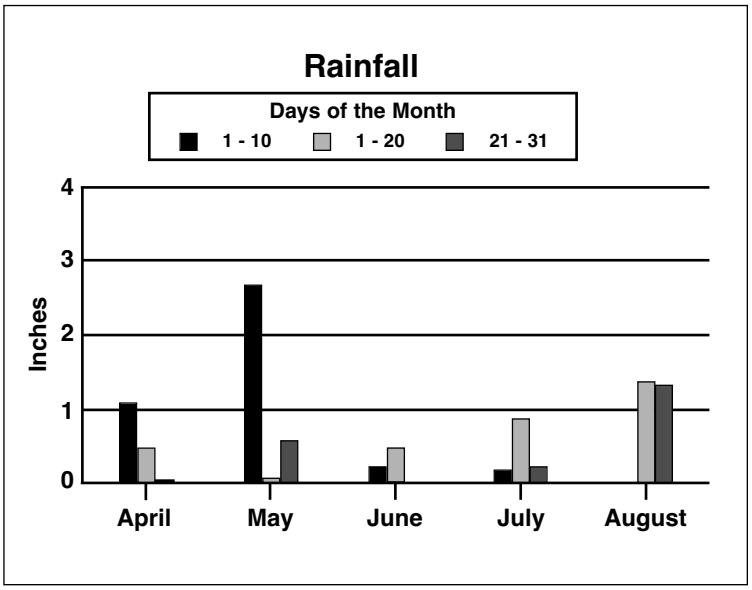

Table 7. Results from 39 early-maturing corn hybrids grown without irrigation on a Houston clay soil near Aberdeen, Monroe County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average[2]	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Belle	Belle 1533Y	156.6	142.3	—	0	36	15.3	28
Terral	TV26BR61	156.5	—	—	0	39	16.2	33
DEKALB	DKC63-46	156.0	—	—	0	30	14.8	30
Dyna-Gro	DG57P12	154.8	—	—	0	34	17.0	32
Terral	TVX25BR603 (E)	154.7	—	—	0	33	15.8	30
Dyna-Gro	57F87	154.5	—	—	0	33	16.3	33
DEKALB	DKC63-62	154.4	—	—	0	32	15.0	31
DEKALB	DKC64-27	154.2	—	—	0	28	16.3	29
Pioneer	33N56	152.6	—	—	0	35	16.1	31
Dyna-Gro	DG57K58	152.2	—	—	0	35	15.4	33
Croplan Genetics	631RR/BT	150.6	151.0	—	0	29	15.6	29
Croplan Genetics	691RR	149.8	—	—	0	34	15.5	30
Belle	Belle 1545RY	149.2	151.4	—	0	38	16.8	29
DEKALB	DKC61-45	147.8	138.2	—	0	31	14.8	29
Terral	TV25R31	147.0	149.6	—	0	34	17.1	31
Terral	TV26BR41	146.5	158.2	—	0	32	16.3	31
Terral	TV26B34	144.2	—	—	0	33	15.8	31
Dyna-Gro	DG57N96	143.6	—	—	0	35	15.4	31
Terral	TV25BR23	143.6	152.6	—	0	26	15.6	33
BioGene	BG CB 1143	143.1	—	—	0	33	15.2	25
Terral	TV26B82	142.6	142.5	—	0	38	17.1	33
Dyna-Gro	DG57P35	140.9	132.6	—	0	34	14.9	31
BioGene	BG RRCB1163	140.8	—	—	0	32	18.9	24
Dyna-Gro	DG57P46	139.0	—	—	0	33	14.8	33
DEKALB	DKC64-81	138.1	—	—	0	26	14.8	31
Terral	TV26BR10n	137.5	143.0	—	0	29	15.4	33
Terral	TVX25BR604 (E)	136.6	—	—	0	31	17.1	29
FB	FB 814CB	134.5	—	—	0	31	15.8	29
Dyna-Gro	DG56K70	134.1	—	—	0	29	15.2	34
Pioneer	33M53	132.6	—	—	0	34	17.3	31
Dyna-Gro	5528BT	132.1	150.5	—	0	37	15.2	31
Terral	TV27C48	132.0	—	—	0	37	15.8	31
FFR	756RRBT	131.9	—	—	0	34	15.6	30
DEKALB	DKC61-72	131.0	—	—	0	35	15.3	30
DEKALB	DKC60-19	128.5	128.5	—	0	26	14.7	30
Terral	TV23R31	123.4	131.6	—	0	37	20.4	32
Terral	TVX24BR601	115.8	—	—	0	41	20.4	32
Terral	TVX25BR602 (E)	113.5	—	—	0	35	15.2	33
Terral	TVX25BR601 (E)	108.1	—	—	0	40	18.8	30
Overall mean		141.2	144.0	—				
LSD (.10)		12.7	12.7	—				
Error degrees of freedom		114	72	—				
CV (%)		7.7	10.6	—				
R^2 (%)		63	54	—				

[1]Planted March 31; harvested August 15.
[2]No 3-year average.

Table 8. Results from 33 late-maturing corn hybrids grown without irrigation on a Houston clay soil near Aberdeen, Monroe County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Dyna-Gro	58P59	164.5	152.1	—	0	37	15.8	31
Terral	TVX26BR601 (E)	156.8	—	—	0	37	17.3	31
Garst	8287RR	155.9	—	—	0	38	20.6	31
DEKALB	DKC66-23	155.0	—	—	0	31	16.2	31
Garst	8247YG1	151.0	—	—	0	34	19.3	29
Dyna-Gro	DG CXO5218	150.3	—	—	0	36	17.0	31
Croplan Genetics	799RR	149.7	—	—	0	35	18.4	29
DEKALB	DKC67-23	148.7	—	—	0	34	16.2	30
Dyna-Gro	5515	148.7	—	—	0	35	16.4	31
Pioneer	31R87	147.6	137.7	—	0	39	17.4	28
Pioneer	31P41	146.1	—	—	0	35	17.0	28
Garst	8225YG1/RR	145.9	—	—	0	30	15.9	31
Pioneer	31G96	145.3	—	—	0	42	16.0	31
Vigoro	V58YR2	145.3	—	—	0	35	16.9	29
Dyna-Gro	58K15	141.5	—	—	0	33	16.0	33
Dyna-Gro	DG58K02	140.1	—	—	0	38	17.5	32
Croplan Genetics	851RR/Bt	140.0	—	—	0	36	15.7	31
Dyna-Gro	DG58K56	139.5	—	—	0	41	17.4	31
Dyna-Gro	DG CXO5516	139.3	—	—	0	40	16.2	30
Garst	8295YG1/RR	139.2	—	—	0	35	22.3	33
Pioneer	31D58	137.5	—	—	0	38	18.3	28
Farmers Best	FB 927RRCB	137.2	—	—	0	37	15.9	29
Farmers Best	FB 905RRCB	135.8	—	—	0	33	16.5	30
Belle	Belle 1747RY	135.0	—	—	0	42	17.8	31
Croplan Genetics	818RR/Bt	134.2	126.7	—	0	34	17.0	30
Vigoro	V59YR52	133.9	—	—	0	39	16.1	30
FFR	843RRBT	130.8	—	—	0	33	15.9	28
Dyna-Gro	DG58P60	130.7	—	—	0	41	18.8	30
Belle	Belle 1525R	130.6	—	—	0	39	17.8	30
Dyna-Gro	DG58K22	126.5	—	—	0	41	15.7	29
Vigoro	V62R66	125.8	—	—	0	41	18.8	30
DEKALB	DKC69-71 (RR2/YGCB)	111.4	118.7	115.4	0	35	22.1	31
DEKALB	DKC69-72 (RR2)	109.2	126.1	115.8	0	36	17.6	30
Overall mean		140.3	132.2	115.6				
LSD (.10)		15.1	12.6	9.6				
Error degrees of freedom		96	24	9				
CV (%)		9.2	11.1	11.1				
R^2 (%)		54	73	86				

[1]Planted March 31; harvested August 15.

MAFES Brown Loam Branch, Raymond

Crop Summary

Corn was planted into good soil moisture after land preparation by disking and smoothing the seedbed with a do-all. The growing season had above-average temperatures, but unlike most areas in the state, above-average, timely rainfall in July and early August produced very good yields.

Soil type	Loring silt loam
Soil pH	6.5
Soil fertility	P=M; K=M
Fertilizer added	Preplant — N @ 195 lb/A + $P_2 0_5$ @ 96 lb/A + $K_2 0$ @ 96 lb/A
Herbicide application	Preemergence — Roundup Weathermax @ 22 oz/A + Atrazine @ 2 qt/A + Dual II Magnum@ 1.25 pt/A (Broadcast)
Previous crop	Soybeans
Planting date	March 15
Harvest date	August 16

Rainfall Summary

	Inches
April	2.49
May	4.14
June	2.28
July	7.38
August	5.00
Total	21.29

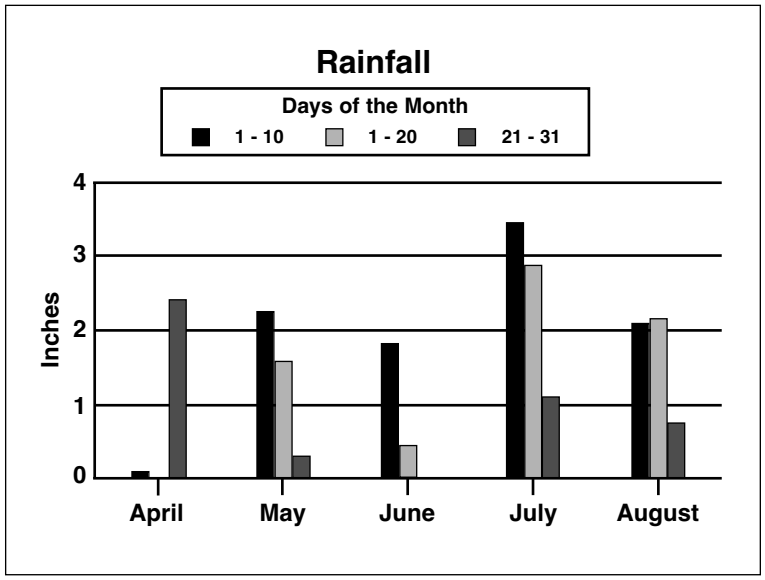

Table 9. Results from 34 early-maturing corn hybrids grown without irrigation on a Loring silt loam soil at the MAFES Brown Loam Branch, Raymond, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Pioneer	33N56	187.2	—	—	0	49	18.3	30
DEKALB	DKC63-62	187.0	—	—	0	50	17.3	29
Terral	TV26B34	184.6	—	—	1	51	19.3	29
Belle	Belle 1533Y	183.1	165.8	—	0	42	18.0	27
Dyna-Gro	57F87	182.4	—	—	0	49	18.7	30
Dyna-Gro	DG57N96	182.0	—	—	0	46	19.3	27
Terral	TVX25BR602 (E)	181.2	—	—	0	54	17.6	31
DEKALB	DKC61-72	181.1	—	—	0	48	16.5	29
DEKALB	DKC64-27	179.8	—	—	0	48	17.1	28
DEKALB	DKC60-19	179.7	—	—	0	43	18.3	30
Terral	TV26BR61	178.9	—	—	3	52	21.6	31
Terral	TV25BR23	175.7	158.4	157.4	0	49	19.6	30
Terral	TV26B82	175.3	161.4	—	0	51	24.0	30
Croplan Genetics	631RR/BT	175.2	—	—	2	42	16.9	29
DEKALB	DKC64-81	174.5	—	—	0	50	19.6	28
Dyna-Gro	DG57K58	173.7	—	—	0	50	17.7	31
Terral	TVX25BR604 (E)	173.2	—	—	0	47	21.6	28
Terral	TV25R31	173.2	158.9	—	2	44	22.0	28
Terral	TVX25BR603 (E)	172.5	—	—	0	47	21.3	28
Terral	TV26BR41	169.6	169.1	—	3	47	19.9	27
Terral	TV27C48	168.2	—	—	0	53	22.7	27
Dyna-Gro	DG57P12	168.1	—	—	0	51	18.8	29
Croplan Genetics	691RR	167.0	—	—	0	43	18.5	29
Pioneer	33M53	166.2	—	—	0	45	18.5	31
Terral	TV23R31	164.3	137.4	—	0	53	23.4	31
DEKALB	DKC61-45	163.7	—	—	0	39	16.9	28
Dyna-Gro	5528BT	162.7	160.9	154.5	0	52	18.6	27
Terral	TV26BR10n	162.6	155.0	149.2	0	49	18.3	31
DEKALB	DKC63-46	162.0	—	—	0	41	16.3	29
Dyna-Gro	DG57P35	162.0	146.6	142.9	0	49	16.5	31
Terral	TVX24BR601	161.0	—	—	1	49	24.7	30
Belle	Belle 1545RY	159.9	144.1	—	0	48	19.8	27
Dyna-Gro	DG57P46	147.6	—	—	1	48	16.7	29
Terral	TVX25BR601 (E)	143.4	—	—	0	52	22.9	30
Overall mean		171.4	155.7	151.0				
LSD (.10)		26.9	16.2	16.0				
Error degrees of freedom		98	54	27				
CV (%)		13.3	12.4	15.3				
R^2 (%)		38	62	60				

[1]Planted March 15; harvested August 16.

Table 10. Results from 23 late-maturing corn hybrids grown without irrigation on a Loring silt loam soil at the MAFES Brown Loam Branch, Raymond, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Croplan Genetics	799RR	190.0	—	—	0	44	19.5	30
Dyna-Gro	58P59	185.3	179.7	—	1	51	21.2	31
Belle	Belle 1747RY	184.2	—	—	0	51	20.1	28
DEKALB	DKC67-23	179.2	—	—	0	44	23.0	30
Dyna-Gro	DG58K56	179.2	—	—	0	50	20.8	31
Pioneer	31R87	178.1	157.4	—	0	48	22.9	28
Pioneer	31D58	177.9	—	—	0	49	22.9	28
Pioneer	31P41	177.2	—	—	0	47	22.5	27
Croplan Genetics	851RR/Bt	176.5	—	—	1	49	20.9	28
Dyna-Gro	DG58K22	175.3	166.5	167.3	0	51	19.8	29
Dyna-Gro	58K15	175.1	165.6	157.3	0	48	18.3	29
Dyna-Gro	DG CXO5516	174.9	—	—	0	49	21.4	29
DEKALB	DKC66-23	174.9	—	—	0	45	22.9	28
Dyna-Gro	5515	172.0	160.4	156.5	0	48	18.7	28
Dyna-Gro	DG CXO5218	171.3	—	—	0	48	24.4	28
Dyna-Gro	DG58P60	169.0	—	—	4	47	23.7	28
Belle	Belle 1525R	168.0	—	—	0	56	20.4	26
Dyna-Gro	DG58K02	167.1	—	—	1	48	24.9	27
DEKALB	DKC69-72 (RR2)	166.1	151.8	155.6	0	45	25.9	30
Terral	TVX26BR601 (E)	163.0	—	—	0	52	23.3	30
FFR	843RRBT	154.4	—	—	1	51	23.0	26
DEKALB	DKC69-71 (RR2/YGCB)	152.0	140.6	149.3	0	51	27.9	28
Croplan Genetics	818RR/Bt	149.0	—	—	0	45	23.0	32
Overall mean		172.2	159.9	157.2				
LSD (.10)		19.2	16.5	13.0				
Error degrees of freedom		66	35	35				
CV (%)		9.5	12.1	11.9				
R^2 (%)		49	64	67				

[1]Planted March 15; harvested August 16.

HENRY SHETLER FARM, CLARKSDALE

Crop Summary

After planting into stale seedbeds, corn emerged to a good stand. The growing season was hot and dry. Yields produced were good, and the plots were harvested on time.

Soil type	Forestdale silt loam
Soil pH	6.3
Soil fertility	P=H; K=H
Fertilizer added	Postemergence — N @ 250 lb/A
Herbicide application	Burndown — Roundup @ 1 qt/A Preplant — Guardsman Max @ 3 pt/A + Atrazine @ 1 qt/A (Broadcast)
Irrigation (furrow)	May 22, June 1, June 10, June 20, June 30, July 10, July 20, and July 31
Previous crop	Soybeans
Planting date	March 28
Harvest date	August 25

Rainfall Summary

	Inches
April	5.44
May	5.15
June	1.07
July	1.39
August	1.77
Total	14.82

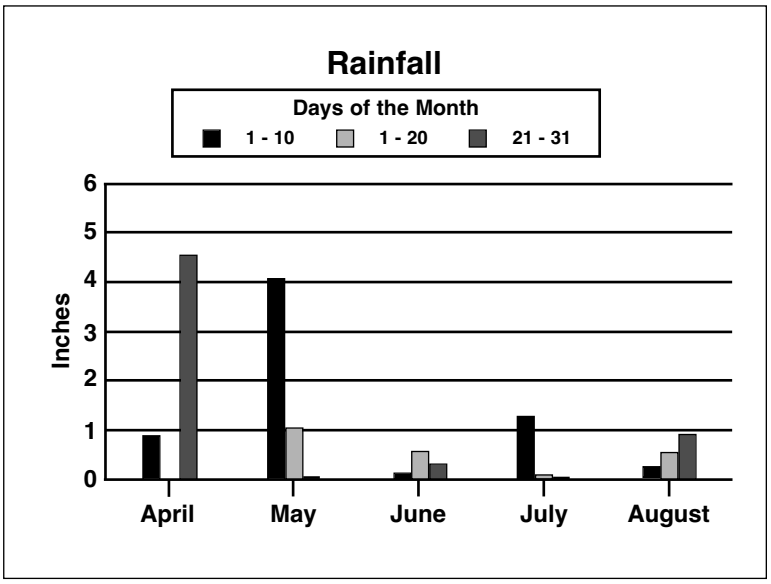

Table 11. Results from 42 early-maturing corn hybrids grown with furrow irrigation on a Forestdale silty clay soil near Clarksdale, Coahoma County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Terral	TV25BR23	216.3	196.4	180.1	0	36	15.3	33
DEKALB	DKC64-81	213.5	—	—	0	33	14.7	31
FB	FB 814CB	212.0	—	—	0	37	15.2	33
Golden Acres	2831RRB	210.6	192.5	—	0	34	15.3	33
Pioneer	33M53	208.4	—	—	0	34	15.4	32
Dyna-Gro	DG57P12	207.0	—	—	0	37	14.6	31
Terral	TVX25BR604 (E)	206.5	—	—	0	35	15.7	30
BioGene	BG CB 1143	202.5	—	—	0	34	15.7	32
Dyna-Gro	DG57N96	202.2	—	—	0	35	14.7	33
Garst	8377YG1/RR	202.1	—	—	0	34	14.7	31
Terral	TV26B34	201.6	—	—	0	34	15.2	32
Belle	Belle 1533Y	198.4	190.5	—	0	34	14.6	32
Terral	TV25R31	198.1	184.9	—	0	38	15.3	32
BioGene	BG RRCB1163	198.0	—	—	0	37	15.3	31
Dyna-Gro	DG57P46	196.9	—	—	0	33	14.4	32
Croplan Genetics	631RR/BT	195.0	187.5	—	0	32	14.2	31
DEKALB	DKC64-27	194.2	—	—	0	27	14.9	31
DEKALB	DKC61-72	193.0	—	—	0	37	14.1	33
FFR	756RRBT	192.1	—	—	0	35	14.5	34
Dyna-Gro	DG57P35	191.9	178.5	169.7	0	37	14.4	32
Dyna-Gro	5528BT	190.7	199.0	163.7	0	39	14.1	31
Terral	TVX25BR603 (E)	190.2	—	—	0	34	15.3	30
Belle	Belle 1545RY	186.9	180.2	—	0	37	14.6	31
DEKALB	DKC61-45	184.1	182.3	—	0	36	14.2	33
Terral	TVX25BR602 (E)	182.5	—	—	0	36	14.7	33
Garst	8378YG1	181.8	—	—	0	34	14.8	30
Croplan Genetics	691RR	180.9	—	—	0	35	14.6	30
Terral	TVX24BR601	180.3	—	—	0	44	15.5	31
Dyna-Gro	57F87	179.4	—	—	0	36	14.7	31
Terral	TV23R31	178.7	173.9	—	0	38	16.0	33
DEKALB	DKC60-19	178.2	176.9	—	0	27	14.2	32
Terral	TV26BR10n	177.5	181.5	154.4	0	36	14.5	33
NK Brand	N70-T9	173.5	—	—	0	34	14.8	31
Dyna-Gro	DG57K58	173.3	—	—	0	39	14.7	32
Terral	TV26B82	173.1	177.9	—	0	40	15.4	33
Terral	TV26BR61	172.8	—	—	0	40	15.4	32
DEKALB	DKC63-46	171.8	—	—	0	31	13.8	31
Pioneer	33N56	170.2	—	—	0	35	14.7	31
Terral	TV26BR41	170.1	167.4	—	0	30	14.5	33
Terral	TVX25BR601 (E)	166.2	—	—	0	45	15.4	30
DEKALB	DKC63-62	159.8	—	—	0	32	14.2	32
Terral	TV27C48	142.5	—	—	0	38	15.2	31
Overall mean		188.2	183.5	167.0				
LSD (.10)		32.6	21.5	15.9				
Error degrees of freedom		123	78	27				
CV (%)		14.8	14.1	13.7				
R^2 (%)		65	57	85				

[1]Planted March 28; harvested August 25.

Table 12. Results from 36 late-maturing corn hybrids grown with furrow irrigation on a Forestdale silty clay soil near Clarksdale, Coahoma County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Terral	TVX26BR601 (E)	205.4	—	—	0	46	15.9	30
Dyna-Gro	DG CXO5218	197.8	—	—	0	38	15.7	31
Vigoro	V62R66	197.2	—	—	0	47	15.7	33
Pioneer	32B29	190.7	—	—	0	39	15.2	31
Croplan Genetics	799RR	189.8	—	—	0	36	15.1	32
Vigoro	V58YR2	188.5	222.9	—	0	35	15.2	31
Dyna-Gro	DG58P60	184.9	—	—	0	44	15.8	31
Garst	8225YG1/RR	181.0	—	—	0	39	16.2	30
DEKALB	DKC66-23	177.6	—	—	0	34	15.5	31
Dyna-Gro	5515	177.4	171.3	146.5	0	35	14.5	31
Farmers Best	FB 927RRCB	176.8	—	—	0	40	14.8	28
Pioneer	31D58	176.8	—	—	0	36	15.2	32
Dyna-Gro	DG58K22	176.2	—	—	0	42	14.6	32
Belle	Belle 1747RY	175.3	—	—	0	41	16.0	33
Dyna-Gro	DG58K02	175.2	—	—	0	42	15.2	30
Croplan Genetics	818RR/Bt	174.9	179.9	—	0	39	15.8	30
Croplan Genetics	851RR/Bt	173.2	—	—	0	34	14.6	31
Farmers Best	FB 905RRCB	172.7	—	—	0	40	15.5	29
Dyna-Gro	DG CXO5516	170.5	—	—	0	37	15.0	32
FFR	843RRBT	170.2	—	—	0	40	15.7	31
DEKALB	DKC67-23	170.1	—	—	0	36	15.2	31
NK Brand	N82-A7	168.7	191.2	—	0	36	15.7	31
Garst	8247YG1	167.5	—	—	0	37	15.3	30
Garst	8287RR	167.4	—	—	0	38	15.2	31
Dyna-Gro	DG58K56	165.8	—	—	0	42	15.8	31
Golden Acres	GA 2841RRB	165.2	173.4	158.6	0	40	14.6	31
Pioneer	31P41	165.1	—	—	0	37	15.1	32
Pioneer	31G96	164.0	—	—	0	48	14.2	32
DEKALB	DKC69-72 (RR2)	163.3	175.9	152.2	0	46	14.6	31
DEKALB	DKC69-71 (RR2/YGCB)	159.6	178.9	160.2	0	38	15.5	30
Golden Acres	2988RRB	153.8	—	—	0	37	14.5	30
Dyna-Gro	58K15	152.0	162.3	145.6	0	40	14.3	32
Belle	Belle 1525R	149.9	—	—	0	44	15.6	29
Garst	8295YG1/RR	149.2	—	—	0	38	15.3	31
Dyna-Gro	58P59	144.8	152.8	140.5	0	38	14.2	33
Golden Acres	2993RRB	143.6	—	—	0	50	15.6	31
Overall mean		171.7	178.7	150.6				
LSD (.10)		31.6	25.0	18.6				
Error degrees of freedom		105	48	45				
CV (%)		15.7	16.7	18.0				
R^2 (%)		66	65	75				

[1]Planted March 28; harvested August 25.

Rob Coker Farm, Yazoo City

Crop Summary

Corn was planted no-till following cotton. Soil moisture was good, and plants emerged to a good stand. The growing season consisted of above-normal temperatures and below-normal rainfall. Timely irrigation was applied to the test, resulting in excellent yields. Harvest was completed without delays.

Soil type	**Dundee silt loam**
Soil pH	**5.9**
Soil fertility	**P=H; K=H**
Fertilizer added	**Postemergence — N @ 225 lb/A**
Herbicide application	**Preemergence — Bicep II Magnum @ 2 qt/A (Broadcast)**
Previous crop	**Cotton**
Irrigation (furrow)	**May 15, 22, and 29; June 5, 12, 19, and 26; July 3, 10, and 17**
Planting date	**March 17**
Harvest date	**August 23**

Rainfall Summary

	Inches
April	**1.92**
May	**2.27**
June	**1.10**
July	**1.19**
August	**2.73**
Total	**9.21**

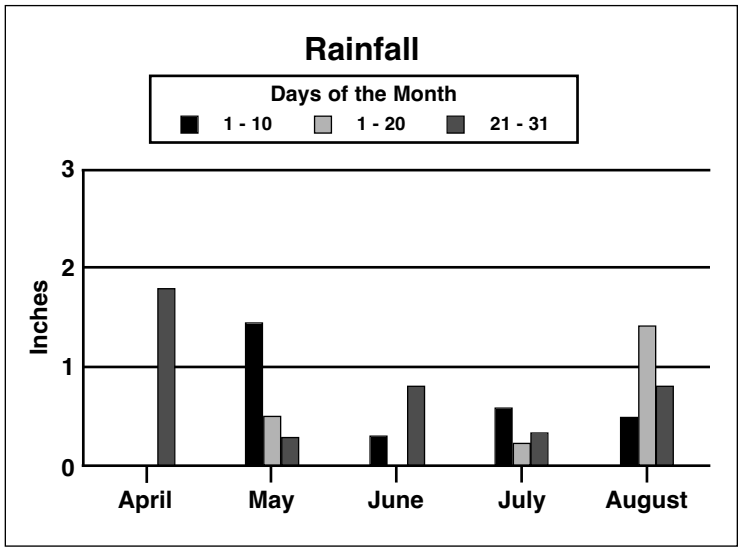

Table 13. Results from 42 early-maturing corn hybrids grown with furrow irrigation on a Dundee silt loam soil near Yazoo City, Yazoo County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Terral	TV26B34	285.1	—	—	0	44	15.1	32
32DEKALB	DKC63-62	280.2	—	—	0	43	14.8	32
Terral	TV26B82	278.5	238.5	—	0	49	15.6	30
Terral	TV26BR61	277.7	—	—	0	49	15.8	34
Terral	TV25R31	268.3	205.5	—	0	42	15.7	32
Pioneer	33M53	267.7	—	—	0	44	15.6	32
Dyna-Gro	57F87	267.4	—	—	0	43	14.8	30
Dyna-Gro	DG57N96	265.2	—	—	0	42	14.6	30
DEKALB	DKC61-45	264.0	216.6	—	0	42	14.3	31
Belle	Belle 1545RY	263.0	223.3	—	0	42	15.0	33
Dyna-Gro	DG57P12	262.2	—	—	0	38	15.1	32
Terral	TV26BR41	262.2	214.9	—	0	42	14.8	31
Dyna-Gro	DG57K58	261.3	—	—	0	45	14.5	31
Dyna-Gro	DG57P46	260.8	—	—	0	39	14.5	33
FFR	756RRBT	257.1	—	—	0	37	14.9	32
Terral	TV27C48	255.6	—	—	0	44	15.6	31
Belle	Belle 1533Y	255.1	216.3	—	0	42	14.8	31
BioGene	BG CB 1143	252.3	—	—	0	41	15.0	31
DEKALB	DKC64-27	250.0	—	—	0	34	14.6	32
DEKALB	DKC63-46	248.8	—	—	0	34	14.2	33
Terral	TVX25BR604 (E)	248.7	—	—	0	46	15.0	28
Terral	TV25BR23	248.2	205.7	220.0	0	47	14.9	33
Terral	TV26BR10n	248.1	213.1	216.1	0	45	14.5	33
DEKALB	DKC64-81	247.6	—	—	0	38	14.7	32
Dyna-Gro	5528BT	246.9	210.0	212.1	0	43	14.2	29
Croplan Genetics	691RR	246.9	—	—	0	38	14.6	30
DEKALB	DKC61-72	246.1	—	—	0	41	14.2	32
Pioneer	33N56	245.9	—	—	0	44	15.2	29
Garst	8378YG1	242.9	—	—	0	41	15.0	29
Terral	TVX25BR603 (E)	242.4	—	—	0	46	15.0	31
Terral	TVX24BR601	242.2	—	—	0	54	15.1	31
FB	FB 814CB	241.5	—	—	0	47	14.4	32
Garst	8377YG1/RR	240.8	—	—	0	38	14.2	29
Terral	TVX25BR601 (E)	240.8	—	—	0	47	15.5	30
DEKALB	DKC60-19	236.6	194.8	—	0	34	14.4	33
Terral	TV23R31	236.2	197.1	—	0	45	15.1	32
Terral	TVX25BR602 (E)	236.2	—	—	0	48	14.7	33
NK Brand	N70-T9	235.6	—	—	0	34	14.8	33
Golden Acres	2831RRB	234.5	205.8	—	0	40	14.3	33
BioGene	BG RRCB1163	231.7	—	—	0	39	15.3	29
Dyna-Gro	DG57P35	224.3	198.2	205.7	0	44	14.5	32
Croplan Genetics	631RR/BT	221.2	200.0	—	0	41	14.4	28
Overall mean		251.6	209.7	213.5				
LSD (.10)		23.9	19.9	18.1				
Error degrees of freedom		123	74	24				
CV (%)		8.1	11.2	11.7				
R^2 (%)		43	84	79				

[1]Planted March 17; harvested August 23.

Table 14. Results from 36 late-maturing corn hybrids grown with furrow irrigation on a Dundee silt loam soil near Yazoo City, Yazoo County, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Pioneer	32B29	293.3	—	—	0	46	14.9	31
Pioneer	31P41	282.7	—	—	0	47	15.5	31
Dyna-Gro	58P59	281.6	234.4	232.5	0	44	14.6	32
Pioneer	31D58	276.4	—	—	0	46	15.5	22
Dyna-Gro	DG58K22	266.3	—	—	0	43	14.9	29
Croplan Genetics	851RR/Bt	261.6	—	—	0	42	14.8	31
Belle	Belle 1747RY	261.5	—	—	0	49	15.4	31
Dyna-Gro	DG58K02	258.7	—	—	0	46	15.2	30
Golden Acres	GA 2841RRB	258.5	—	—	0	46	14.9	31
Pioneer	31G96	258.5	—	—	0	51	14.7	33
Dyna-Gro	DG CXO5516	258.4	—	—	0	45	15.1	31
Garst	8247YG1	257.1	—	—	0	47	15.4	22
Terral	TVX26BR601 (E)	256.2	—	—	0	45	16.1	31
DEKALB	DKC66-23	255.0	—	—	0	38	15.8	28
Garst	8295YG1/RR	254.9	—	—	0	48	15.9	32
Belle	Belle 1525R	254.5	—	—	0	48	15.5	30
Dyna-Gro	DG CXO5218	253.4	—	—	0	49	15.2	29
FFR	843RRBT	252.8	—	—	0	48	15.3	27
Vigoro	V58YR2	251.4	198.7	—	0	40	15.3	29
Dyna-Gro	DG58K56	249.6	—	—	0	50	15.3	30
Vigoro	V62R66	248.0	—	—	0	52	15.7	29
Dyna-Gro	DG58P60	246.7	—	—	0	48	16.2	30
DEKALB	DKC69-72 (RR2)	244.9	220.0	229.1	0	47	16.0	22
Dyna-Gro	5515	244.2	202.8	209.7	0	45	14.3	32
Golden Acres	2993RRB	244.1	—	—	0	51	16.1	30
Garst	8287RR	243.1	—	—	0	50	15.4	29
Golden Acres	2988RRB	242.3	—	—	0	44	15.0	30
Croplan Genetics	818RR/Bt	240.8	215.2	—	0	44	16.0	28
Garst	8225YG1/RR	238.1	—	—	0	45	15.0	30
Farmers Best	FB 927RRCB	234.2	—	—	0	48	14.9	30
DEKALB	DKC69-71 (RR2/YGCB)	233.7	218.6	222.3	0	44	16.1	30
NK Brand	N82-A7	232.6	209.0	—	0	47	15.7	28
Farmers Best	FB 905RRCB	231.2	—	—	0	37	14.7	30
Croplan Genetics	799RR	227.8	—	—	0	44	14.8	30
Dyna-Gro	58K15	225.6	194.2	191.4	0	45	14.4	22
DEKALB	DKC67-23	219.0	—	—	0	45	15.9	31
Overall mean		251.0	211.8	217.0				
LSD (.10)		25.8	17.7	17.5				
Error degrees of freedom		103	41	36				
CV (%)		8.7	9.8	11.7				
R^2 (%)		49	83	74				

[1]Planted March 17; harvested August 23.

MAFES Delta Branch, Stoneville

Crop Summary

The corn variety trial was planted into a spring-prepared seedbed, following soybeans. Weed control was very good. Rainfall was adequate during the early growing season.

Soil type	Bosket very fine sandy loam
Soil pH	7.4
Soil fertility	P=H; K=H
Fertilizer added	Preplant — N @ 100 lb/A on 3/8/06 Postemergence — N @ 150 lb/A on 4/28/06
Herbicide application	Preemergence — Bicep II Magnum @ 2 qt/A on 4/4/06 (Broadcast)
Previous crop	Soybeans
Irrigation (furrow)	June 22, June 29, July 18, and July 31
Planting date	March 30
Harvest date	August 22

Rainfall Summary

	Inches
April	7.38
May	2.86
June	1.81
July	1.78
August	1.56
Total	15.39

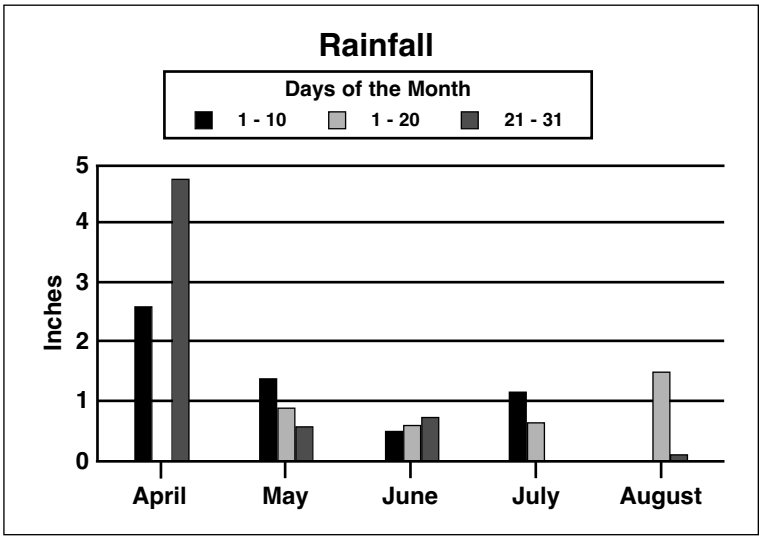

Table 15. Results from 42 early-maturing corn hybrids grown with furrow irrigation on a Bosket very fine sandy loam soil at the MAFES Delta Branch Station, Stoneville, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Dyna-Gro	5528BT	279.3	266.2	265.3	0	45	15.5	30
Pioneer	33M53	276.6	—	—	0	41	16.2	32
Dyna-Gro	DG57K58	271.0	—	—	0	44	15.6	31
BioGene	BG CB 1143	268.4	—	—	0	41	16.0	32
Terral	TV26BR10n	267.2	248.8	247.3	0	38	15.5	33
Terral	TV25BR23	265.6	251.7	245.8	0	39	16.1	31
Golden Acres	2831RRB	264.8	252.0	—	0	39	15.3	31
DEKALB	DKC63-62	264.8	—	—	0	38	15.5	30
Croplan Genetics	631RR/BT	262.9	247.4	—	0	36	14.7	28
Terral	TV26B82	262.7	247.0	—	0	45	18.8	28
Belle	Belle 1533Y	259.6	244.4	—	0	35	16.7	28
Dyna-Gro	57F87	259.1	—	—	0	39	18.4	31
Croplan Genetics	691RR	256.3	—	—	0	40	15.7	29
FB	FB 814CB	255.9	—	—	0	38	15.6	31
DEKALB	DKC64-81	255.5	—	—	0	37	17.1	29
Garst	8377YG1/RR	253.3	—	—	0	38	15.6	29
Terral	TV26BR41	252.4	247.8	—	0	34	15.9	28
Terral	TV26BR61	252.1	—	—	0	47	18.3	31
Dyna-Gro	DG57N96	251.8	—	—	0	40	16.2	28
FFR	756RRBT	249.8	—	—	0	38	17.6	30
Dyna-Gro	DG57P46	246.1	—	—	0	38	15.0	29
Belle	Belle 1545RY	242.0	240.0	—	0	38	17.2	28
Pioneer	33N56	241.9	—	—	0	38	15.4	28
Dyna-Gro	DG57P12	241.1	—	—	0	39	17.5	29
Dyna-Gro	DG57P35	241.0	232.4	232.0	0	32	15.7	32
DEKALB	DKC64-27	239.9	—	—	0	34	14.8	30
Garst	8378YG1	239.7	—	—	0	40	17.5	27
Terral	TVX25BR601 (E)	238.4	—	—	0	47	17.7	27
Terral	TVX24BR601	235.6	—	—	0	45	16.7	30
NK Brand	N70-T9	234.6	—	—	0	36	18.4	34
Terral	TV26B34	232.6	—	—	0	38	17.1	27
DEKALB	DKC60-19	231.2	224.7	—	0	34	16.0	30
Terral	TV23R31	230.8	216.7	—	0	44	16.8	27
Terral	TV25R31	230.3	222.5	—	0	41	18.6	24
DEKALB	DKC61-72	229.9	—	—	0	40	14.4	25
Terral	TVX25BR602 (E)	229.6	—	—	0	40	16.6	28
DEKALB	DKC61-45	229.6	225.5	—	0	35	14.8	27
DEKALB	DKC63-46	224.7	—	—	0	35	14.9	28
Terral	TV27C48	224.4	—	—	0	42	18.5	26
BioGene	BG RRCB1163	224.0	—	—	0	36	16.7	26
Terral	TVX25BR604 (E)	221.3	—	—	0	40	17.0	25
Terral	TVX25BR603 (E)	216.9	—	—	0	38	17.8	25
Overall mean		246.5	240.5	247.6				
LSD (.10)		25.0	17.2	13.1				
Error degrees of freedom		123	78	27				
CV (%)		8.7	8.6	7.6				
R^2 (%)		49	56	62				

[1]Planted March 30; harvested August 22.

Table 16. Results from 36 late-maturing corn hybrids grown with furrow irrigation on a Bosket very fine sandy loam soil at the MAFES Delta Branch Station, Stoneville, 2006.[1]

Brand name	Hybrid number	2006 yield	2-year average	3-year average	Stalk lodging	Ear height	Moisture content	Harvested stand (x1000)
		bu/A	*bu/A*	*bu/A*	*%*	*in*	*%*	
Garst	8247YG1	291.7	—	—	0	46	20.4	31
Pioneer	31G96	291.6	—	—	0	45	15.8	29
Pioneer	31D58	290.6	—	—	0	40	16.5	29
Terral	TVX26BR601 (E)	288.1	—	—	0	37	18.1	29
Croplan Genetics	851RR/Bt	285.2	—	—	0	42	16.4	32
Pioneer	32B29	284.8	—	—	0	41	15.8	29
DEKALB	DKC69-72 (RR2)	282.5	238.2	244.0	0	44	16.4	31
Dyna-Gro	58P59	281.6	252.1	247.1	0	42	15.9	27
Golden Acres	GA 2841RRB	280.9	—	—	0	43	17.2	29
Dyna-Gro	DG58P60	279.3	—	—	0	47	18.2	29
FFR	843RRBT	275.5	—	—	0	43	16.6	29
DEKALB	DKC67-23	273.9	—	—	0	40	16.8	29
DEKALB	DKC66-23	271.6	—	—	0	37	17.5	30
Dyna-Gro	DG58K02	269.4	—	—	0	45	18.6	28
Dyna-Gro	DG58K22	267.7	—	—	0	42	14.6	30
Croplan Genetics	818RR/Bt	266.4	210.7	—	0	42	17.1	31
Dyna-Gro	58K15	266.3	224.9	224.8	0	38	15.1	25
Garst	8295YG1/RR	266.0	—	—	0	45	18.1	29
Dyna-Gro	DG CXO5218	266.0	—	—	0	41	17.4	30
Garst	8287RR	265.5	—	—	0	46	16.9	32
DEKALB	DKC69-71 (RR2/YGCB)	262.8	229.4	243.8	0	47	17.3	30
Golden Acres	2993RRB	262.0	—	—	0	48	16.8	28
Croplan Genetics	799RR	261.8	—	—	0	39	16.1	31
Dyna-Gro	DG58K56	260.1	—	—	0	42	16.3	23
Dyna-Gro	DG CXO5516	257.9	—	—	0	39	16.1	30
Pioneer	31P41	257.8	—	—	0	39	15.7	30
Belle	Belle 1747RY	257.6	—	—	0	47	16.1	30
Farmers Best	FB 927RRCB	255.7	—	—	0	47	15.7	29
Belle	Belle 1525R	254.7	—	—	0	46	17.5	28
Garst	8225YG1/RR	246.3	—	—	0	39	16.2	28
Dyna-Gro	5515	245.3	221.0	222.1	0	38	15.4	31
Farmers Best	FB 905RRCB	240.3	—	—	0	41	16.2	31
Golden Acres	2988RRB	235.5	—	—	0	43	16.6	31
Vigoro	V62R66	231.8	—	—	0	43	16.6	30
NK Brand	N82-A7	200.6	206.0	—	0	41	18.1	30
Vigoro	V58YR2	174.4	189.8	—	0	37	16.7	32
Overall mean		263.6	222.3	236.1				
LSD (.10)		35.5	27.3	16.4				
Error degrees of freedom		91	38	34				
CV (%)		10.5	14.1	9.9				
R^2 (%)		51	73	78				

[1]Planted March 30; harvested August 22.

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