MISSISSIPPI CORN FOR GRAIN

HYBRID TRIALS, 2017

Information Bulletin 524 • November 2017

MISSISSIPPI'S OFFICIAL VARIETY TRIALS

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USDA Agricultural Research Service
Crop Science Research Laboratory

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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 25–26 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 25–26.

Mississippi Corn for Grain Hybrid Trials, 2017

MAFES Official Variety Trial Contributors

Brad Burgess
Director, Research Support/Variety Testing
Mississippi State University

Jake Bullard
Assistant Director, Variety Testing
Mississippi State University

Andy Braswell
Area Extension Agent
Leflore County Extension Office

Jon Carson
Extension Agent
Issaquena County Extension Office

Sean Horton
Farm Manager
Delta Research and Extension Center

Erick Larson
Associate Extension/Research Professor
MSU Plant and Soil Sciences

Bisoondat Macoon
Associate Professor
and Interim Facilities Coordinator
Brown Loam Branch Experiment Station

Jason McQuirter
Research Associate II
Variety Testing
Mississippi State University

Dennis Reginelli
Area Extension Agent
Noxubee County Extension Office

Mark Silva
Extension Associate and Program Coordinator
Delta Agricultural Weather Center
Delta Research and Extension Center

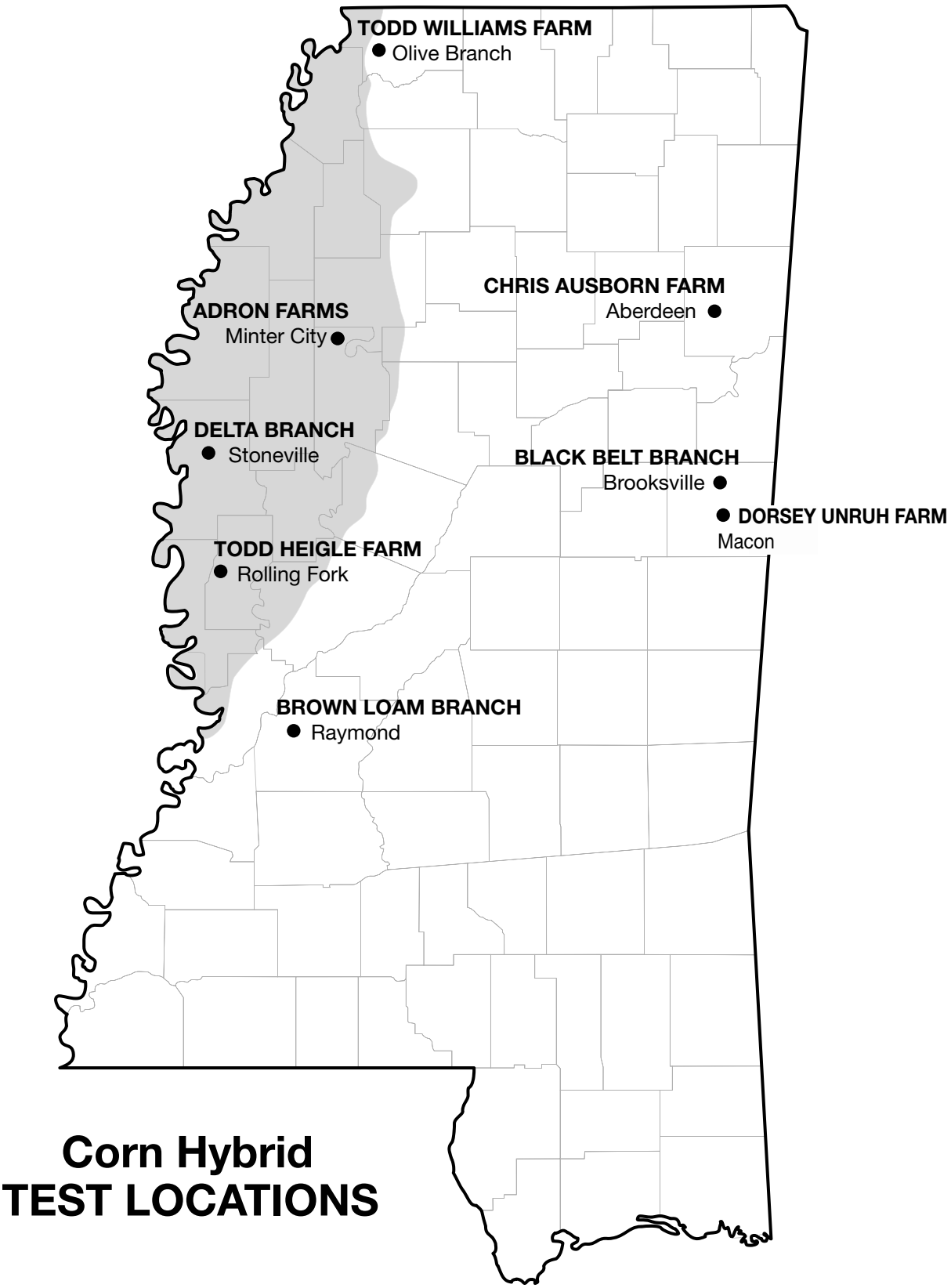
Charlie Stokes
Area Agronomy Agent
MSU Extension Service

Joshua White
Manager, Forage Variety Testing
Mississippi State University
MSU Plant and Soil Sciences

For more information, contact Burgess at (662) 325-2390; email, Brad.Burgess@msstate.edu. Recognition is given to Jason Hillhouse, research technician for the Variety Trial Program, for his assistance in packaging, planting, harvesting, and recording plot data. This publication was prepared by Dixie Albright, office associate for MAFES Research Support Units.

This document was approved for publication as Information Bulletin 524 of the Mississippi Agricultural and Forestry Experiment Station. It was published by the Office of Agricultural Communications, a unit of the Mississippi State University Division of Agriculture, Forestry, and Veterinary Medicine.

Find variety trial information online at ***mafes.msstate.edu/variety-trials***.



Corn Hybrid TEST LOCATIONS

Mississippi Corn for Grain Hybrid Trials, 2017

PROCEDURES

Trials were conducted on Experiment Station land or on grower-cooperator fields in two geographical areas in Mississippi: Area I, located in the hill region of Mississippi (one irrigated and four dryland locations); and Area II, located in the Delta region of Mississippi (three irrigated locations) (see map). Commercial seed companies were given the opportunity to enter hybrids in either Area I or Area II or both.

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 or Cruiser for seedling insect control. Experimental design was a randomized complete block with four replications at each location.

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 precision vacuum planter. Fertilizer was applied according to soil test recommendations. Plots in Area I were grown under both dryland and irrigated conditions, and plots in Area II were grown under irrigated conditions. All irrigated trials were either furrow or center-pivot 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 14% moisture.

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 hybrid cannot be measured with complete accuracy. Consequently, replicate plots of all hybrids are evaluated for yield, and the yield of a given hybrid is estimated as the mean of all replicate plots of that hybrid. Yields vary somewhat from one replicate plot to another, which introduces a certain degree of error to the value. As a result, although the mean yields of some hybrids are numerically different, the two hybrids 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 hybrids 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:

Hybrid	Yield
A	90 bu/A
B	85 bu/A
C	81 bu/A
LSD	7 bu/A

The difference between hybrid A and hybrid 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 hybrid A and hybrid 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 differ-

ence between hybrid A and hybrid 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 hybrid A is superior to that of hybrid 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. 2017 corn hybrid trials location summary.

Location	Irrigation	Soil type	Planting date	Harvest date	Row spacing
Aberdeen, Chris Ausborn Farm	Nonirrigated	Houston clay	4/11	9/11	30”
Brooksville, Black Belt Branch	Nonirrigated	Brooksville silty clay	3/23	8/17	30”
Macon, Dorsey Unruh Farm	Pivot Irrigated	Brooksville and Vaiden silty clay	4/11	8/23	30”
Minter City, Ricky Belk Farm	Furrow Irrigated	Dubbs and Dundee silt loam	3/24	8/1	30”
Olive Branch, Todd Williams Farm	Nonirrigated	Collins silt loam	4/10	9/19	30”
Raymond, Brown Loam Branch	Nonirrigated	Loring silt loam	4/12	8/21	30”
Rolling Fork, Todd Heigle Farm	Furrow Irrigated	Commerce silty clay loam	3/22	8/16	30”
Stoneville (clay), Delta Branch	Furrow Irrigated	Sharkey clay	3/24	8/25	30”
Stoneville (loam), Delta Branch	Furrow Irrigated	Bosket and Commerce very fine sandy loam	3/22	8/22	30”

Table 2. 2017 corn hybrid yield summary for dryland locations.

Brand	Hybrid number[1]	Aberdeen	Brooksville	Olive Branch	Raymond	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A645-10VT2RIB	233.3	164.1	193.1	184.4	193.7
AgriGold	A6499 VT2 RIB	251.9	171.1	224.5	206.0	213.4
AgriGold	A6544VT2RIB	274.1	174.3	245.6	241.4	233.9
AgriGold	A6659VT2RIB	270.9	177.4	231.3	229.3	227.2
AgriGold	A6572VT2RIB	235.2	153.4	201.0	213.5	200.8
AgriGold	A6652VT2RIB	262.6	161.3	232.6	239.8	224.1
AgriGold	A6711VT2RIB	259.9	176.2	225.5	252.0	228.4
Armor	1717	246.4	161.5	207.0	221.1	209.0
Armor	1227P	235.7	164.6	193.5	206.3	200.0
Armor	1447P	258.5	180.9	247.7	210.6	224.4
Armor	1667S	253.7	168.4	229.0	208.1	214.8
Armor	1887P	242.7	163.1	223.2	201.1	207.5
Armor	AXT7116 *	251.1	186.9	237.2	226.0	225.3
Augusta	1166	239.7	156.9	219.9	227.3	210.9
Augusta	1564	227.9	154.5	190.7	190.0	190.8
Augusta	7766	234.8	159.7	205.9	189.8	197.5
Croplan	5290	241.9	162.0	170.5	188.4	190.7
Croplan	6640	244.6	159.5	203.7	190.5	199.6
DeKalb	DKC62-08	254.0	199.3	235.7	217.3	226.5
DeKalb	DKC64-35	265.7	166.6	248.2	215.1	223.9
DeKalb	DKC65-95	253.7	166.8	209.7	189.0	204.8
DeKalb	DKC66-75	262.3	180.7	255.6	227.3	231.5
DeKalb	DKC67-44	258.6	171.7	248.0	217.3	223.9
DeKalb	DKC67-72	254.3	184.7	238.7	247.3	231.3
DeKalb	DKC68-26	251.9	183.2	239.9	250.5	231.4
DeKalb	DKC70-27	248.8	168.7	215.7	213.3	211.6
Delta Grow	DG 2888	248.2	161.0	195.1	242.1	211.6
Delta Grow	DG 3660	248.1	132.9	230.4	223.2	208.6
Dyna-Gro	D54VC52	217.3	155.4	204.8	159.4	184.2
Dyna-Gro	D55VC45	213.8	159.1	211.4	187.3	192.9
Dyna-Gro	D57VP51	251.4	188.4	189.8	222.6	213.0
Dyna-Gro	D57VP75	233.9	159.7	201.3	215.4	202.6
Dyna-Gro	D58VC65	243.6	183.0	235.7	207.6	217.5
MorCorn	MC4319	242.0	163.2	207.2	179.0	197.9
MorCorn	MC4725	246.5	153.2	208.2	225.6	208.4
Mycogen	MY16M16	258.6	175.0	202.5	226.4	215.6
NK Seeds	NK 1405 3220EZ1	221.0	160.2	201.1	206.7	197.3
Pioneer	P1316YHR	246.6	171.6	233.0	211.1	215.6
Progeny Ag	PGY 6119VT3P	234.1	180.3	241.1	231.2	221.7
Progeny Ag	PGY EXP1715SS *	240.1	181.2	218.7	230.9	217.7
Progeny Ag	PGY 6110VT2P	195.2	121.8	200.7	134.6	163.1
Progeny Ag	PGY 7111VT2P	245.2	152.4	216.5	198.0	203.0
Progeny Ag	PGY 7215VT2P	216.8	157.5	214.0	175.6	191.0
Progeny Ag	PGY 6116VT3P	261.6	187.3	240.5	232.0	230.4
Progeny Ag	PGY 5115VT2P	244.4	168.5	220.9	235.7	217.4
Terral Seed	REV 26BHR50	260.6	164.9	236.2	252.4	228.5
Terral Seed	REV 28R10	240.2	176.9	193.1	238.3	212.1
Terral Seed	REV 23BHR55	256.6	170.6	220.2	218.1	216.4
Terral Seed	REV 25BHR26	244.4	178.4	217.4	225.6	216.4
Terral Seed	REV 28BHR18	233.6	162.6	224.7	213.9	208.7
Mean		245.4	167.7	219.3	214.5	211.7
LSD (0.05)		5.4	16.7	11.3	29.8	
CV		18.4	7.3	38.9	10.3	
R^2		59.0	61.3	51.5	63.0	
Error DF		186.0	186.0	127.0	186.0	

[1]Hybrid followed by an asterisk indicates an experimental entry.

Table 3. Two-year corn hybrid yield summary for dryland locations.

Brand	Hybrid number	Aberdeen	Brooksville	Olive Branch	Raymond	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A6499 VT2 RIB	216.5	140.9	156.6	160.9	168.7
AgriGold	A6544VT2RIB	229.5	149.2	177.7	184.7	185.3
AgriGold	A6659VT2RIB	231.4	134.6	182.3	160.2	177.1
AgriGold	A6572VT2RIB	215.9	135.7	169.2	170.3	172.7
AgriGold	A6652VT2RIB	227.7	130.4	165.4	169.5	173.3
AgriGold	A6711VT2RIB	220.3	135.3	164.5	190.0	177.5
Armor	1717	212.6	134.3	161.4	192.0	175.1
Augusta	1564	204.3	140.8	128.1	160.3	158.4
Augusta	7766	209.0	138.1	156.4	165.8	167.4
Croplan	5290	211.7	145.1	146.0	157.2	165.0
Croplan	6640	215.5	149.6	137.6	177.1	169.9
DeKalb	DKC62-08	218.9	151.8	174.8	166.9	178.1
DeKalb	DKC64-35	228.1	147.3	174.6	180.9	182.7
DeKalb	DKC66-75	230.2	141.8	180.5	185.1	184.4
DeKalb	DKC67-44	230.8	142.3	191.0	183.6	186.9
DeKalb	DKC67-72	218.9	148.8	181.1	189.4	184.5
DeKalb	DKC68-26	211.9	165.1	164.1	188.2	182.3
DeKalb	DKC70-27	218.7	133.7	158.8	174.8	171.5
Delta Grow	DG 2888	209.2	122.8	153.1	173.1	164.6
Delta Grow	DG 3660	207.0	129.7	146.8	147.9	157.9
Dyna-Gro	D54VC52	200.7	125.1	155.1	133.8	153.7
Dyna-Gro	D57VP51	210.7	153.2	138.9	188.1	172.7
Dyna-Gro	D57VP75	215.7	138.8	150.6	189.3	173.6
Progeny Ag	PGY 6119VT3P	214.6	153.0	171.5	174.6	178.4
Progeny Ag	PGY 7215VT2P	197.8	130.5	147.7	144.3	155.1
Progeny Ag	PGY 6116VT3P	227.2	158.9	172.2	180.6	184.7
Progeny Ag	PGY 5115VT2P	219.5	155.8	153.4	195.2	181.0
Terral Seed	REV 26BHR50	226.6	136.7	162.0	190.1	178.9
Terral Seed	REV 28R10	213.4	147.6	148.0	171.8	170.2
Terral Seed	REV 23BHR55	221.4	131.3	159.7	165.1	169.4
Terral Seed	REV 25BHR26	213.0	132.8	162.8	170.0	169.7
Overall Mean		217.1	141.3	161.0	173.6	173.2

Table 4. Three-year corn hybrid yield summary for dryland locations.

Brand	Hybrid number	Aberdeen	Brooksville	Olive Branch	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*
AgriGold	A6499 VT2 RIB	212.5	148.8	158.5	173.3
AgriGold	A6659VT2RIB	219.8	147.6	171.7	179.7
AgriGold	A6711VT2RIB	215.5	142.8	144.9	167.7
Armor	1717	205.5	145.1	156.8	169.1
Croplan	6640	214.8	167.1	146.3	176.1
DeKalb	DKC62-08	209.9	156.3	149.0	171.8
DeKalb	DKC67-72	214.5	156.0	149.0	173.2
DeKalb	DKC68-26	206.3	171.7	158.5	178.9
Delta Grow	DG 2888	203.7	136.8	151.1	163.9
Delta Grow	DG 3660	209.3	142.4	116.7	156.1
Dyna-Gro	D54VC52	200.7	138.0	149.6	162.7
Dyna-Gro	D57VP51	212.3	155.8	140.6	169.5
Dyna-Gro	D57VP75	206.4	154.7	152.7	171.3
Progeny Ag	PGY 6116VT3P	221.9	159.0	162.8	181.2
Progeny Ag	PGY 5115VT2P	214.3	159.2	138.5	170.7
Terral Seed	REV 26BHR50	213.8	135.9	150.1	166.6
Terral Seed	REV 23BHR55	214.1	142.4	147.6	168.0
Terral Seed	REV 25BHR26	199.5	141.4	155.2	165.3
Overall Mean		210.8	150.1	150.0	170.3

Table 5. 2017 corn hybrid yield summary for irrigated locations.

Brand	Hybrid number[1]	Macon	Minter City	Rolling Fork	Stoneville (clay)	Stoneville (loam)	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A645-10VT2RIB	241.0	261.5	250.0	221.4	234.9	241.8
AgriGold	A6499 VT2 RIB	229.9	247.6	233.2	230.7	217.6	231.8
AgriGold	A6544VT2RIB	255.0	234.0	255.6	229.8	247.9	244.4
AgriGold	A6659VT2RIB	258.4	268.3	282.1	249.9	268.1	265.3
AgriGold	A6572VT2RIB	250.5	237.1	240.0	215.5	230.1	234.7
AgriGold	A6652VT2RIB	266.3	257.6	258.3	235.9	228.2	249.3
AgriGold	A6711VT2RIB	275.1	259.4	255.4	240.1	240.7	254.1
Armor	1717	246.1	245.1	270.8	228.7	240.4	246.2
Armor	1227P	246.1	245.4	238.0	233.8	225.1	237.7
Armor	1447P	262.5	257.7	258.8	246.8	243.6	253.9
Armor	1667S	258.5	253.5	258.5	233.6	241.6	249.1
Armor	1887P	250.8	259.5	251.6	234.1	239.0	247.0
Armor	AXT7116 *	251.3	265.6	263.8	222.6	227.0	246.1
Augusta	1166	259.8	258.9	281.6	239.2	271.8	262.3
Augusta	1564	247.8	224.7	242.1	205.4	230.8	230.2
Augusta	5065	246.3	249.1	279.9	253.0	278.4	261.3
Augusta	7766	251.8	247.6	243.9	222.6	238.0	240.8
Augusta	7768	277.4	267.7	279.9	226.6	231.4	256.6
Augusta	8868	274.9	281.3	290.6	243.4	280.6	274.2
B-H Genetics	BH 8465SS	269.4	255.5	277.0	241.2	262.1	261.1
B-H Genetics	BH 8721VT2P	254.2	269.5	263.1	240.6	237.4	252.9
B-H Genetics	BH 8848SS	256.3	246.0	250.1	234.4	247.4	246.8
Croplan	5678	270.2	282.7	273.5	238.8	257.5	264.5
DeKalb	DKC62-08	252.3	272.4	279.4	243.8	275.1	264.6
DeKalb	DKC64-35	239.8	253.6	252.4	232.0	254.2	246.4
DeKalb	DKC65-95	249.2	263.2	264.0	257.4	227.9	252.3
DeKalb	DKC66-75	271.8	266.7	264.8	247.2	260.4	262.2
DeKalb	DKC67-44	252.2	258.4	259.7	244.9	244.1	251.9
DeKalb	DKC67-72	266.0	245.7	242.4	225.2	246.0	245.0
DeKalb	DKC68-26	272.3	279.9	275.6	217.6	253.6	259.8
DeKalb	DKC70-27	267.5	270.7	284.1	260.3	230.4	262.6
Delta Grow	DG 2888	243.2	233.0	234.4	228.5	233.8	234.6
Delta Grow	DG 3660	241.8	225.4	237.2	228.4	228.7	232.3
Dyna-Gro	D54VC52	232.2	228.1	246.7	217.0	210.4	226.9
Dyna-Gro	D55VC45	242.6	243.7	244.2	227.2	231.0	237.8
Dyna-Gro	D57VP51	263.8	268.3	287.7	249.2	264.4	266.7
Dyna-Gro	D58VC37	282.2	253.3	254.1	242.9	250.6	256.6
Dyna-Gro	D58VC65	272.8	261.5	269.0	238.0	249.3	258.1
Great Heart Seed	HT-7302VT2P	264.6	253.0	281.3	231.6	206.8	247.5
Great Heart Seed	HT-7381VT2PRIB	240.4	245.0	235.8	232.8	246.5	240.1
Great Heart Seed	HT-7486SS	263.3	265.9	273.5	255.4	267.0	265.0
Great Heart Seed	HT-7803 3110VIP	246.3	263.6	236.2	244.6	223.4	242.8
MorCorn	MC4319	248.0	240.4	253.0	221.5	218.2	236.2
MorCorn	MC4725	275.4	266.6	286.2	235.1	266.2	265.9
Mycogen	MY16M16	262.2	248.1	275.8	241.5	268.3	259.2
NK Seeds	NK1573 111A	254.0	235.8	260.4	222.4	252.9	245.1
Pioneer	P2089VYHR	275.6	258.7	292.0	258.1	287.3	274.3
Progeny Ag	PGY EXP1715SS *	266.3	263.9	261.3	255.1	270.2	263.4
Progeny Ag	PGY 6119VT2P	268.8	261.9	269.0	248.2	264.1	262.4
Progeny Ag	PGY 7111VT2P	257.0	237.0	255.4	219.7	209.8	235.8
Progeny Ag	PGY 7215VT2P	252.7	246.1	250.0	229.4	229.9	241.6
Progeny Ag	PGY 6116VT3P	266.9	251.0	274.3	229.6	246.7	253.7
Progeny Ag	PGY 5115VT2P	265.0	229.4	255.7	240.2	247.8	247.6
Terral Seed	REV 26BHR50	278.1	283.1	282.3	262.7	284.6	278.1
Terral Seed	REV 28R10	261.5	259.5	288.9	258.9	239.9	261.8
Terral Seed	REV 23BHR55	259.1	257.7	293.1	261.0	295.3	273.3
Terral Seed	REV 25BHR26	263.8	266.2	285.1	251.9	256.1	264.6
Terral Seed	REV 28BHR18	245.4	248.0	268.3	236.8	250.1	249.7
Mean		258.0	254.8	263.3	237.3	246.7	252.0
LSD (0.05)		18.9	18.7	19.6	17.4	31.0	
CV		5.2	5.3	5.3	5.3	7.9	
R^2		53.0	63.0	67.0	62.0	70.0	
Error DF		178	178	178	194	119	

[1]Hybrid followed by an asterisk indicates an experimental entry.

Table 6. Two-year corn hybrid yield summary for irrigated locations.

Brand	Hybrid number	Macon	Minter City	Rolling Fork	Stoneville (clay)	Stoneville (loam)	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A6499 VT2 RIB	227.5	235.8	221.6	193.2	212.3	218.1
AgriGold	A6544VT2RIB	248.8	253.8	239.0	210.9	231.7	236.9
AgriGold	A6572VT2RIB	239.1	239.1	220.7	196.6	226.6	224.4
AgriGold	A6652VT2RIB	253.8	250.8	243.2	216.8	210.8	235.1
AgriGold	A6659VT2RIB	235.8	252.3	249.8	211.9	224.3	234.8
AgriGold	A6711VT2RIB	261.2	256.0	237.3	216.0	229.2	239.9
Armor	1717	248.5	252.0	243.9	211.3	230.6	237.3
Augusta	1564	236.1	228.3	226.0	186.9	203.4	216.1
Augusta	7766	243.9	246.3	241.2	192.8	218.9	228.6
Augusta	7768	261.4	243.2	252.9	214.8	211.0	236.7
Augusta	8868	245.4	271.7	254.0	211.0	258.3	248.1
Croplan	5678	257.8	266.6	242.5	210.7	239.8	243.5
DeKalb	DKC62-08	239.8	257.4	246.2	214.1	249.0	241.3
DeKalb	DKC64-35	245.8	243.7	237.5	201.3	240.3	233.7
DeKalb	DKC66-75	261.6	265.8	237.5	222.7	244.7	246.4
DeKalb	DKC67-44	256.1	249.4	239.1	226.6	236.9	241.6
DeKalb	DKC67-72	254.3	237.5	230.8	209.9	226.2	231.8
DeKalb	DKC68-26	263.4	277.2	254.0	203.6	238.9	247.4
DeKalb	DKC70-27	257.7	267.2	252.4	227.9	235.5	248.2
Delta Grow	DG 2888	231.8	224.3	227.1	200.3	198.3	216.3
Delta Grow	DG 3660	241.9	217.9	231.5	216.1	216.3	224.8
Dyna-Gro	D54VC52	222.3	218.0	225.6	191.4	200.7	211.6
Dyna-Gro	D57VP51	245.8	258.7	251.8	225.5	238.7	244.1
Dyna-Gro	D58VC37	264.5	248.5	230.8	218.1	229.3	238.2
Pioneer	P2089VYHR	265.7	255.9	267.4	212.1	253.3	250.9
Progeny Ag	PGY 5115VT2P	257.4	248.3	248.3	207.0	236.0	239.4
Progeny Ag	PGY 6116VT3P	249.7	245.0	243.2	202.4	235.4	235.1
Progeny Ag	PGY 6119VT2P	241.7	244.8	225.6	212.9	234.1	231.8
Terral Seed	REV 23BHR55	234.5	249.9	258.8	216.6	257.5	243.5
Terral Seed	REV 25BHR26	244.9	244.2	249.2	216.3	234.7	237.8
Terral Seed	REV 26BHR50	253.7	263.4	252.3	219.3	248.7	247.5
Terral Seed	REV 28R10	242.8	239.9	267.2	218.8	232.2	240.2
Overall Mean		248.0	248.5	242.1	210.5	230.7	236.0

Table 7. Three-year corn hybrid summary for irrigated locations.

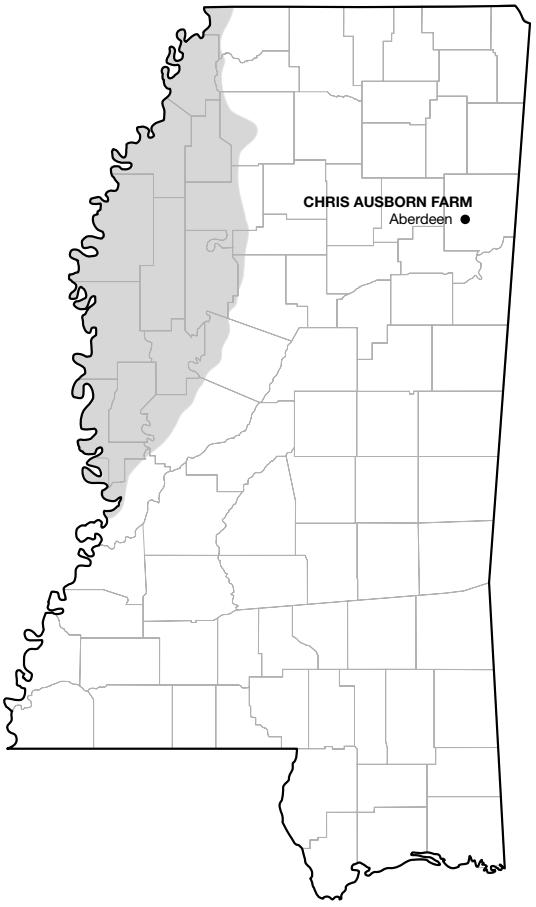
Brand	Hybrid number	Macon	Minter City	Rolling Fork	Stoneville (loam)	Stoneville (clay)	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A6499 VT2 RIB	227.8	225.3	224.1	159.2	224.1	212.1
AgriGold	A6659VT2RIB	238.8	234.6	241.6	144.8	230.9	218.1
AgriGold	A6711VT2RIB	251.7	237.5	232.2	182.6	234.3	227.7
Armor	1717	245.1	241.2	245.5	157.8	242.5	226.4
Augusta	7768	265.3	245.1	252.4	189.1	235.2	237.4
Augusta	8868	242.3	259.0	253.7	159.5	259.6	234.8
DeKalb	DKC62-08	237.6	244.0	239.0	135.5	249.3	221.1
DeKalb	DKC67-72	252.5	225.8	221.7	159.6	229.6	217.8
DeKalb	DKC68-26	262.9	263.5	248.2	132.7	241.3	229.7
Delta Grow	DG 2888	228.9	223.4	218.2	155.2	207.6	206.7
Delta Grow	DG 3660	234.3	210.8	224.6	159.7	223.8	210.7
Dyna-Gro	D57VP51	250.4	250.1	248.9	179.8	244.1	234.7
Dyna-Gro	D58VC37	254.5	236.1	233.1	166.0	238.6	225.7
Progeny Ag	PGY 5115VT2P	243.1	232.7	237.1	153.1	235.5	220.3
Progeny Ag	PGY 6116VT3P	240.0	231.9	228.9	163.4	234.0	219.6
Terral Seed	REV 23BHR55	237.2	244.6	254.0	147.3	262.6	229.1
Terral Seed	REV 25BHR26	242.7	240.9	247.8	143.4	249.3	224.8
Terral Seed	REV 26BHR50	249.5	257.3	247.9	150.9	255.8	232.3
Overall Mean		244.7	239.1	238.8	157.8	238.8	223.8

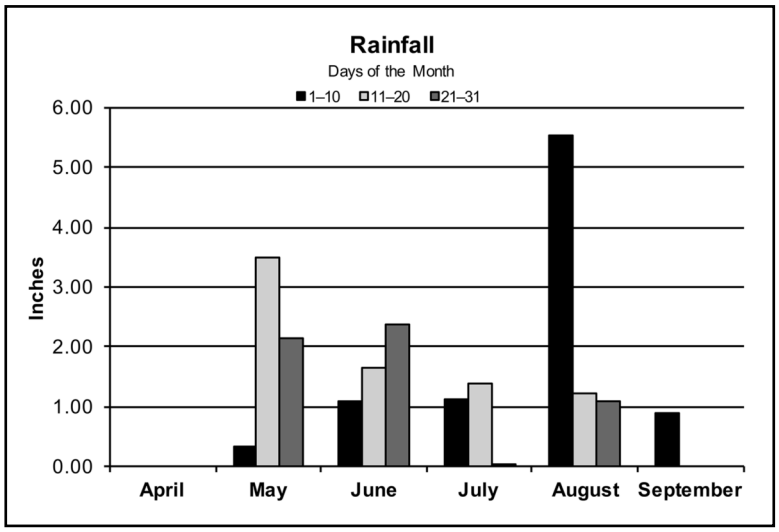
CHRIS AUSBORN FARM, ABERDEEN

Crop Summary

Corn plots were planted into a stale seedbed that had been bedded up the previous fall. Adequate moisture at planting allowed all plots to quickly emerge to a good stand. Timely rains at key points during the growing season resulted in very good dryland yields. Harvest was made in a timely manner without difficulties.

Soil type . . . . . .Houston clay
Soil pH 6.2
Soil fertility . . . . .P=M, K=H
Fertilizer . . . . . .Starter — 10-20-5-1S-0.43Zn@ 18 gal/A (applied 2x2) on April 11
Sidedress — N @ 200 lb/A (32% UAN)
Herbicide . . . . . .Preplant — Glyphosate @ 32 oz/A and 2,4-D @ 24 oz/A on February 28
Preemergence — Lexar @ 1.5 qt/A and Gramoxone @ 1 qt/A on April 11
Postemergence — Atrazine @ 2 qt/A and Glyphosate @ 22 oz/A on May 17
Previous crop . . .Soybean
Planting date . . . .April 11
Harvest date . . . .September 11





Rainfall Summary

	Inches
April	0.00
May	6.02
June	5.10
July	2.57
August	7.85
September	0.91
Total	22.45

Table 8. Results from 50 corn hybrids grown without irrigation on a Houston clay soil near Aberdeen, Monroe County, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
AgriGold	A6544VT2RIB	274.1	229.5	—	50	0.0	13.5	9.9	33
AgriGold	A6659VT2RIB	270.9	231.4	219.8	47	0.0	13.9	9.7	33
DeKalb	DKC64-35	265.7	228.1	—	47	0.0	14.2	9.8	34
AgriGold	A6652VT2RIB	262.6	227.7	—	49	0.0	13.3	9.7	33
DeKalb	DKC66-75	262.3	230.2	—	40	0.0	14.1	9.6	34
Progeny Ag	PGY 6116VT3P	261.6	227.2	221.9	41	0.0	13.7	9.9	33
Terral Seed	REV 26BHR50	260.6	226.6	213.8	49	0.0	14.8	10.7	30
AgriGold	A6711VT2RIB	259.9	220.3	215.5	43	0.0	13.8	9.7	33
Mycogen	MY16M16	258.6	—	—	49	0.0	13.9	10.3	32
DeKalb	DKC67-44	258.6	230.8	—	48	1.0	14.0	10.1	32
Armor	1447P	258.5	—	—	39	0.0	13.8	9.5	33
Terral Seed	REV 23BHR55	256.6	221.4	214.1	46	0.0	13.4	10.2	30
DeKalb	DKC67-72	254.3	218.9	214.5	42	0.0	13.9	9.7	34
DeKalb	DKC62-08	254.0	218.9	209.9	47	0.0	13.5	9.3	34
DeKalb	DKC65-95	253.7	—	—	47	0.0	13.9	9.8	34
Armor	1667S	253.7	—	—	45	0.0	14.1	9.7	33
DeKalb	DKC68-26	251.9	211.9	206.3	41	0.0	13.8	9.8	33
AgriGold	A6499 VT2 RIB	251.9	216.5	212.5	50	0.0	13.7	9.7	34
Dyna-Gro	D57VP51	251.4	210.7	212.3	48	0.0	13.8	9.7	31
Armor	AXT7116 *	251.1	—	—	49	0.0	13.9	9.6	31
DeKalb	DKC70-27	248.8	218.7	—	42	0.0	14.4	9.9	34
Delta Grow	DG 2888	248.2	209.2	203.7	48	0.0	14.4	10.6	34
Delta Grow	DG 3660	248.1	207.0	209.3	45	0.0	14.7	10.2	35
Pioneer	P1316YHR	246.6	—	—	46	0.0	13.7	10.2	32
MorCorn	MC4725	246.5	—	—	46	0.0	13.6	9.9	28
Armor	1717	246.4	212.6	205.5	47	0.0	13.7	9.7	32
Progeny Ag	PGY 7111VT2P	245.2	—	—	45	0.0	13.4	9.4	31
Croplan	6640	244.6	215.5	214.8	48	0.0	13.6	9.3	33
Progeny Ag	PGY 5115VT2P	244.4	219.5	214.3	43	0.0	13.6	9.5	38
Terral Seed	REV 25BHR26	244.4	213.0	199.5	42	0.0	13.7	10.1	30
Dyna-Gro	D58VC65	243.6	—	—	42	0.0	13.9	9.4	28
Armor	1887P	242.7	—	—	46	0.0	14.6	9.6	32
MorCorn	MC4319	242.0	—	—	45	0.0	13.3	9.6	29
Croplan	5290	241.9	211.7	—	48	2.0	13.8	9.3	33
Terral Seed	REV 28R10	240.2	213.4	—	50	0.0	14.2	10.1	31
Progeny Ag	PGY EXP1715SS *	240.1	—	—	44	0.0	13.9	9.6	35
Augusta	1166	239.7	—	—	49	0.0	13.2	9.3	32
Armor	1227P	235.7	—	—	42	0.0	13.6	9.7	32
AgriGold	A6572VT2RIB	235.2	215.9	—	43	0.0	13.8	9.8	32
Augusta	7766	234.8	209.0	—	48	0.0	13.5	10.0	33
Progeny Ag	PGY 6119VT3P	234.1	214.6	—	41	0.0	14.1	9.5	36
Dyna-Gro	D57VP75	233.9	215.7	206.4	47	0.0	13.5	10.4	28
Terral Seed	REV 28BHR18	233.6	—	—	50	0.0	14.1	10.4	26
AgriGold	A645-10VT2RIB	233.3	—	—	48	0.0	13.9	9.6	32
Augusta	1564	227.9	204.3	—	44	0.0	13.5	10.7	31
NK Seeds	NK 1405 3220EZ1	221.0	—	—	46	0.0	13.1	10.4	31
Dyna-Gro	D54VC52	217.3	200.7	200.7	43	0.0	14.1	9.5	25
Progeny Ag	PGY 7215VT2P	216.8	—	—	40	0.0	14.1	9.5	33
Dyna-Gro	D55VC45	213.8	—	—	34	0.0	13.5	9.4	28
Progeny Ag	PGY 6110VT2P	195.2	—	—	37	0.0	13.5	9.5	30
Mean		245.4							
LSD (0.05)		5.4							
CV		18.4							
R^2		59							
Error DF		186							

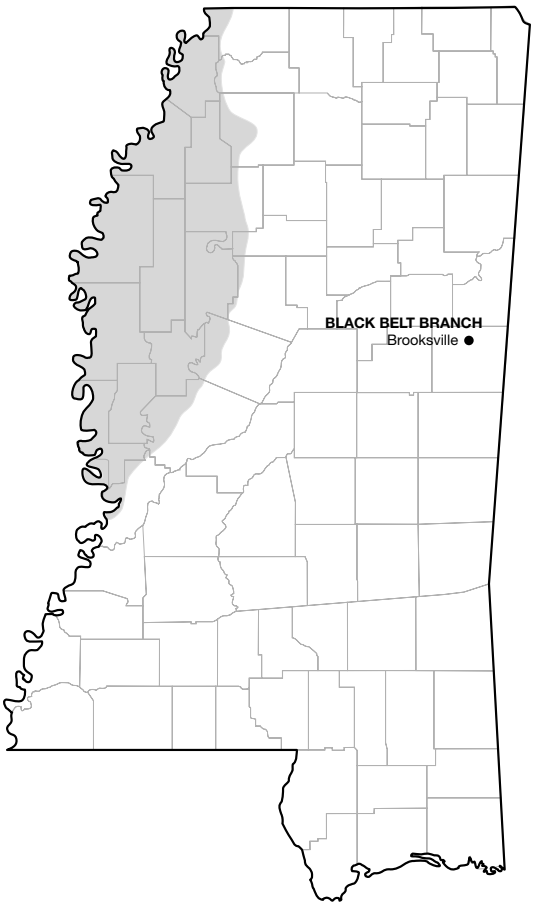
[1]Hybrid followed by an asterisk indicates an experimental entry.

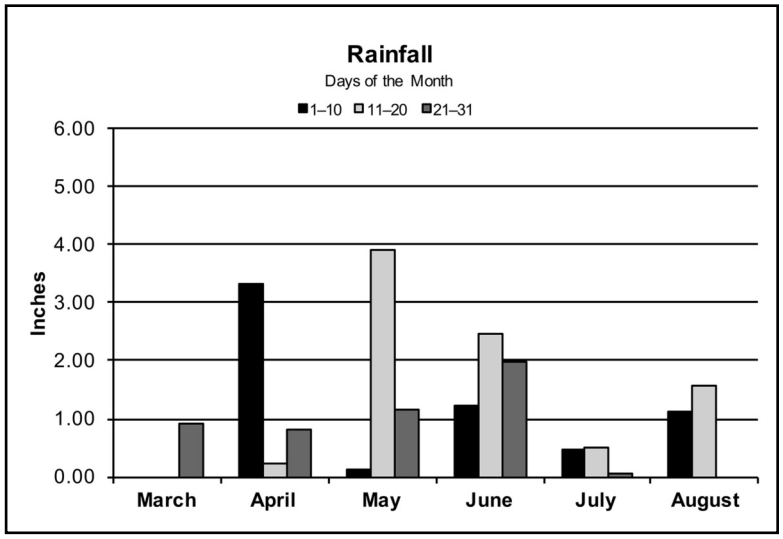
MAFES BLACK BELT BRANCH, BROOKSVILLE

Crop Summary

Corn plots were planted into a flat, stale seedbed in late March. Soil moisture was adequate at planting for germination and emergence. Plots emerged to a good stand. Rainfall seemed to occur regularly during the early season, but the plots went through a hot, dry period during midsummer. However, good dryland yields were observed at this location.

Soil type . . . . . .Brooksville silty clay
Soil pH 6.3
Soil fertility . . . . .P=L, K=M
Fertilizer . . . . . .Preplant — 0-20-20 @ 200 lb/A (fall applied)
Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on March 23
Topdress — N @ 46 lb/A (46-0-0) on April 25; N @ 150 lb/A (46-0-0) on May 16
Herbicide . . . . . .Preemergence — Lexar @ 2 qt/A and Gramoxone @ 1 qt/A on March 23
Postemergence — Roundup PowerMAX @ 1 qt/A, Callisto @ 3 oz/A, and Atrazine @ 8 oz/A on May 9
Previous crop . . .Wheat
Planting date . . .March 23
Harvest date . . . .August 17





Rainfall Summary

	Inches
March	0.91
April	0.49
May	5.21
June	5.68
July	1.05
August	2.69
Total	16.03

Table 9. Results from 50 corn hybrids grown without irrigation on a Brooksville silty clay soil at the MAFES Black Belt Branch, Brooksville, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
DeKalb	DKC62-08	199.3	151.8	156.3	38	—	18.8	8.0	33
Dyna-Gro	D57VP51	188.4	153.2	155.8	35	—	18.6	7.6	31
Progeny Ag	PGY 6116VT3P	187.3	158.9	159.0	32	—	19.7	7.0	34
Armor	AXT7116 *	186.9	—	—	35	—	21.8	8.3	30
DeKalb	DKC67-72	184.7	148.8	156.0	35	—	20.3	8.0	32
DeKalb	DKC68-26	183.2	165.1	171.7	32	—	20.0	7.9	31
Dyna-Gro	D58VC65	183.0	—	—	34	—	19.5	7.2	26
Progeny Ag	PGY EXP1715SS *	181.2	—	—	34	—	21.6	8.1	30
Armor	1447P	180.9	—	—	32	—	19.0	7.5	31
DeKalb	DKC66-75	180.7	141.8	—	30	—	19.9	7.3	34
Progeny Ag	PGY 6119VT3P	180.3	153.0	—	37	—	21.2	8.2	34
Terral Seed	REV 25BHR26	178.4	132.8	141.4	31	—	18.6	7.7	31
AgriGold	A6659VT2RIB	177.4	134.6	147.6	31	—	19.2	7.2	31
Terral Seed	REV 28R10	*176.9*	147.6	—	34	—	19.3	8.3	30
AgriGold	A6711VT2RIB	176.2	135.3	142.8	32	—	20.6	6.7	32
Mycogen	MY16M16	175.0	—	—	39	—	19.9	7.9	26
AgriGold	A6544VT2RIB	174.3	149.2	—	35	—	19.1	7.7	30
DeKalb	DKC67-44	171.7	142.3	—	34	—	20.9	8.0	32
Pioneer	P1316YHR	171.6	—	—	30	—	18.4	7.9	33
AgriGold	A6499 VT2 RIB	171.1	140.9	148.8	33	—	18.6	7.4	31
Terral Seed	REV 23BHR55	170.6	131.3	142.4	33	—	19.5	7.8	30
DeKalb	DKC70-27	168.7	133.7	—	35	—	22.1	7.3	30
Progeny Ag	PGY 5115VT2P	168.5	155.8	159.2	35	—	19.1	7.7	36
Armor	1667S	168.4	—	—	36	—	21.4	8.4	28
DeKalb	DKC65-95	166.8	—	—	28	—	20.3	8.2	33
DeKalb	DKC64-35	166.6	147.3	—	33	—	19.3	7.0	35
Terral Seed	REV 26BHR50	*164.9*	136.7	135.9	33	—	20.1	8.2	28
Armor	1227P	164.6	—	—	32	—	19.8	7.0	33
AgriGold	A645-10VT2RIB	164.1	—	—	32	—	21.3	7.9	30
MorCorn	MC4319	163.2	—	—	25	—	22.2	7.0	26
Armor	1887P	163.1	—	—	34	—	21.5	7.5	31
Terral Seed	REV 28BHR18	162.6	—	—	33	—	19.8	8.0	27
Croplan	5290	162.0	145.1	—	36	—	19.7	7.6	27
Armor	1717	161.5	134.3	145.1	37	—	19.9	8.0	30
AgriGold	A6652VT2RIB	161.3	130.4	—	35	—	18.4	7.4	32
Delta Grow	DG 2888	161.0	122.8	136.8	41	—	18.7	8.6	30
NK Seeds	NK 1405 3220EZ1	160.2	—	—	37	—	19.6	7.7	31
Augusta	7766	159.7	138.1	—	31	—	20.1	8.0	30
Dyna-Gro	D57VP75	159.7	138.8	154.7	36	—	20.0	8.0	28
Croplan	6640	159.5	149.6	167.1	33	—	19.9	7.7	29
Dyna-Gro	D55VC45	159.1	—	—	33	—	20.8	7.5	30
Progeny Ag	PGY 7215VT2P	157.5	—	—	36	—	20.9	7.3	31
Augusta	1166	156.9	—	—	32	—	19.1	7.8	31
Dyna-Gro	D54VC52	155.4	125.1	138.0	30	—	21.5	7.3	27
Augusta	1564	154.5	140.8	—	33	—	18.9	8.0	29
AgriGold	A6572VT2RIB	153.4	135.7	—	36	—	20.3	7.3	29
MorCorn	MC4725	153.2	—	—	26	—	20.0	7.3	26
Progeny Ag	PGY 7111VT2P	152.4	—	—	26	—	19.5	7.2	30
Delta Grow	DG 3660	132.9	129.7	142.4	30	—	22.2	8.4	30
Progeny Ag	PGY 6110VT2P	121.8	—	—	29	—	19.0	7.7	28
Mean		167.7							
LSD (0.05)		16.7							
CV		7.3							
R^2		61.3							
Error DF		186							

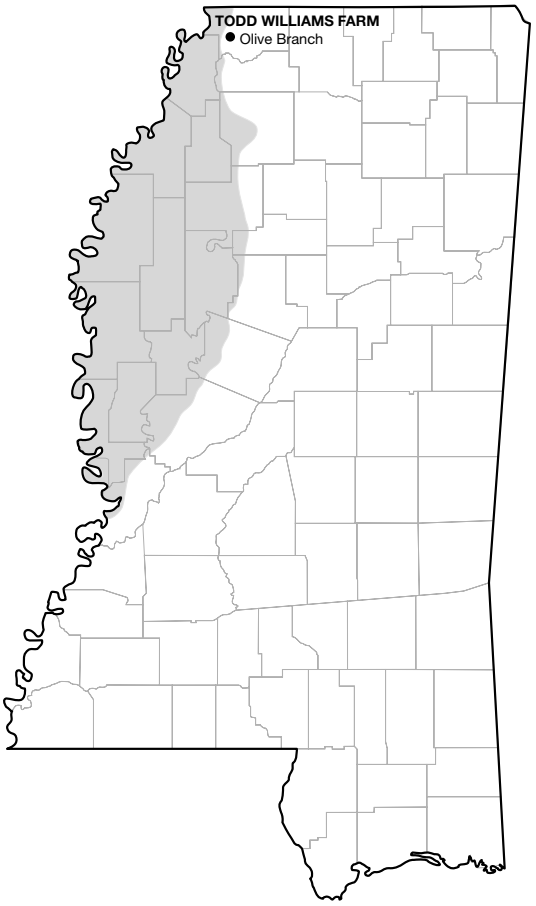
[1]Hybrid followed by an asterisk indicates an experimental entry.

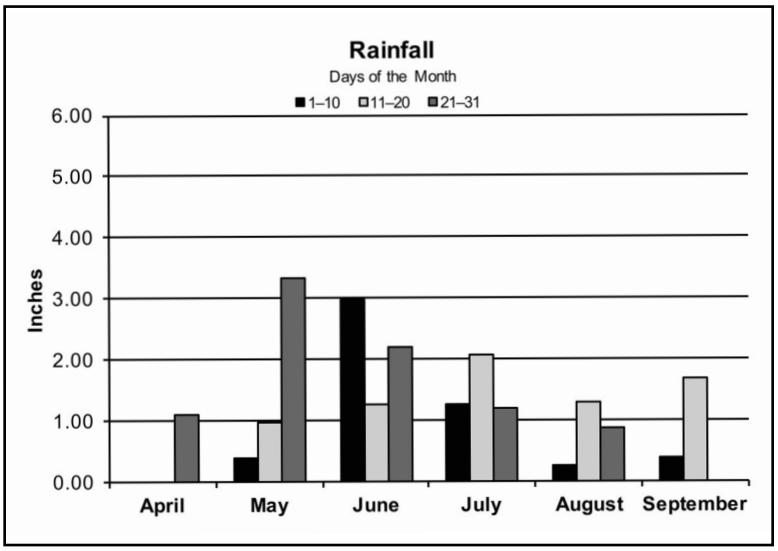
TODD WILLIAMS FARM, OLIVE BRANCH

Crop Summary

Corn plots were planted flat into a seedbed that had been prepared with a vertical tillage implement before planting. Soil moisture at planting was optimum for germination. All plots emerged to a good stand. Rainfall throughout the growing season was plentiful. The frequency and timeliness of these rains set this crop up for excellent yield potential. However, before harvest, these plots were impacted by Hurricane Harvey. Severe lodging occurred in most plants. Due to the impact of Harvey, these plots were basically hand-harvested, so that the yield potential for this location could still be realized. As a result, good yields were observed at this location.

Soil type . . . . . .Collins silt loam
Soil pH 5.8
Soil fertility . . . . .P=H^{+}, K=H
Fertilizer . . . . . .Preplant — 100-90-120-15S-1B
Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on April 10
Topdress — N @ 80 lb/A (urea with Agritain)
Herbicide . . . . . .Preemergence — Atrazine @ 1 qt/A, Dual II Magnum @ 1 pt/A, and Paraquat @ 1 pt/A + 25% surfactant
Postemergence — Glyphosate @ 1 qt/A, Atrazine @ 1.2 qt/A, Dual II Magnum @ 1 pt/A, and Mestrione @ 3.2 oz/A
Previous crop . . .Soybean
Planting date . . . .April 10
Harvest date . . . .September 19





Rainfall Summary

	Inches
April	1.12
May	4.73
June	6.43
July	4.51
August	2.41
September	2.10
Total	21.30

Table 10. Results from 50 corn hybrids grown without irrigation on a Collins silt loam soil near Olive Branch, DeSoto County, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
DeKalb	DKC66-75	255.6	180.5	—	54	48.6	14.4	—	35
DeKalb	DKC64-35	248.2	174.6	—	52	70.8	14.6	—	34
DeKalb	DKC67-44	248.0	191.0	—	55	71.4	14.8	—	33
Armor	1447P	247.7	—	—	52	17.5	14.5	—	33
AgriGold	A6544VT2RIB	245.6	177.7	—	54	42.1	14.1	—	33
Progeny Ag	PGY 6119VT3P	241.1	171.5	—	52	50.0	14.8	—	36
Progeny Ag	PGY 6116VT3P	240.5	172.2	162.8	58	41.9	14.1	—	33
DeKalb	DKC68-26	239.9	164.1	158.5	49	33.3	14.8	—	33
DeKalb	DKC67-72	238.7	181.1	149.0	46	42.6	14.5	—	34
Armor	AXT7116 *	237.2	—	—	51	30.0	14.8	—	33
Terral Seed	REV 26BHR50	236.2	162.0	150.1	50	52.5	15.2	—	31
Dyna-Gro	D58VC65	235.7	—	—	51	25.4	14.6	—	27
DeKalb	DKC62-08	235.7	174.8	149.0	55	40.4	14.4	—	34
Pioneer	P1316YHR	233.0	—	—	49	8.8	14.7	—	33
AgriGold	A6652VT2RIB	232.6	165.4	—	49	31.4	14.1	—	33
AgriGold	A6659VT2RIB	231.3	182.3	171.7	50	41.6	15.5	—	32
Delta Grow	DG 3660	230.4	146.8	116.7	52	64.4	14.8	—	34
Armor	1667S	229.0	—	—	57	62.1	15.1	—	33
AgriGold	A6711VT2RIB	225.5	164.5	144.9	46	26.9	14.9	—	32
Terral Seed	REV 28BHR18	224.7	—	—	62	71.4	13.5	—	24
AgriGold	A6499 VT2 RIB	224.5	156.6	158.5	54	48.6	14.1	—	33
Armor	1887P	223.2	—	—	56	41.6	15.2	—	32
Progeny Ag	PGY 5115VT2P	220.9	153.4	138.5	51	39.5	14.2	—	37
Terral Seed	REV 23BHR55	220.2	159.7	147.6	55	26.7	14.2	—	30
Augusta	1166	219.9	—	—	51	87.3	14.4	—	31
Progeny Ag	PGY EXP1715SS *	218.7	—	—	60	73.3	14.9	—	35
Terral Seed	REV 25BHR26	217.4	162.8	155.2	53	32.1	14.8	—	31
Progeny Ag	PGY 7111VT2P	216.5	—	—	48	12.3	12.9	—	33
DeKalb	DKC70-27	215.7	158.8	—	57	63.5	15.0	—	33
Progeny Ag	PGY 7215VT2P	214.0	—	—	51	50.0	14.6	—	33
Dyna-Gro	D55VC45	211.4	—	—	57	28.8	14.6	—	28
DeKalb	DKC65-95	209.7	—	—	54	61.1	14.7	—	31
MorCorn	MC4725	208.2	—	—	51	9.9	14.9	—	29
MorCorn	MC4319	207.2	—	—	52	20.7	14.5	—	28
Armor	1717	207.0	161.4	156.8	52	61.1	14.6	—	30
Augusta	7766	205.9	156.4	—	54	28.7	14.0	—	32
Dyna-Gro	D54VC52	204.8	155.1	149.6	54	27.5	14.7	—	25
Croplan	6640	203.7	137.6	146.3	50	44.6	14.2	—	33
Mycogen	MY16M16	202.5	—	—	60	27.6	15.0	—	32
Dyna-Gro	D57VP75	201.3	150.6	152.7	61	72.9	15.1	—	27
NK Seeds	NK 1405 3220EZ1	201.1	—	—	59	61.5	14.1	—	30
AgriGold	A6572VT2RIB	201.0	169.2	—	48	38.0	14.6	—	32
Progeny Ag	PGY 6110VT2P	200.7	—	—	45	38.4	13.0	—	32
Delta Grow	DG 2888	195.1	153.1	151.1	48	8.3	15.0	—	35
Armor	1227P	193.5	—	—	48	59.6	14.4	—	32
AgriGold	A645-10VT2RIB	193.1	—	—	57	70.4	14.5	—	31
Terral Seed	REV 28R10	193.1	148.0	—	57	35.6	14.7	—	31
Augusta	1564	190.7	128.1	—	48	73.6	14.3	—	31
Dyna-Gro	D57VP51	189.8	138.9	140.6	50	20.0	14.3	—	29
Croplan	5290	170.5	146.0	—	56	61.0	13.7	—	33
Mean		219.3							
LSD (0.05)		11.3							
CV		38.9							
R^2		51.5							
Error DF		127							

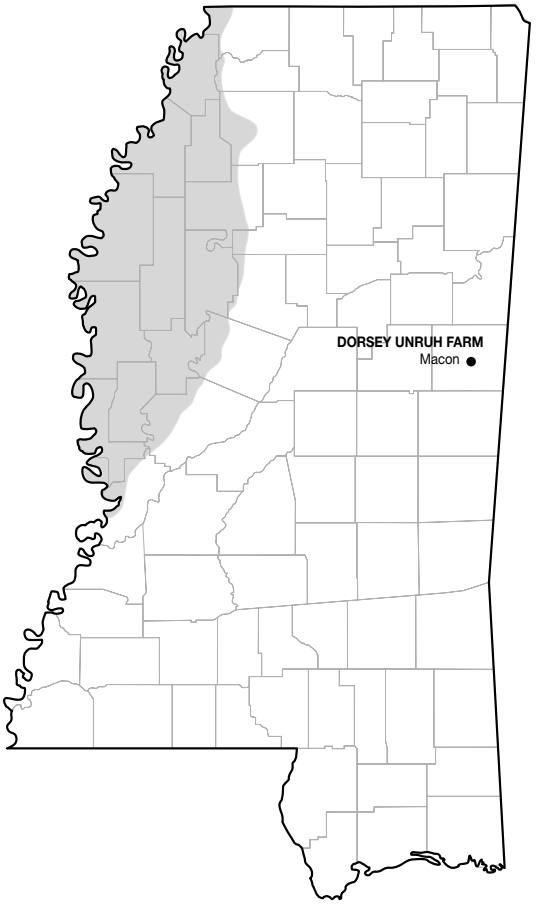
[1]Hybrid followed by an asterisk indicates an experimental entry.

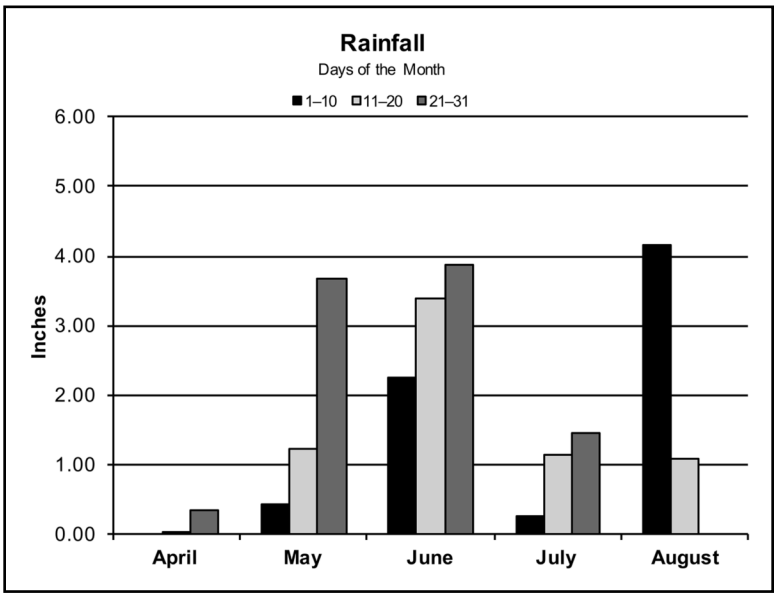
DORSEY UNRUH FARM, MACON

Crop Summary

The planting date at this location was slightly later than normal due to the frequency of spring rains that occurred during March. Plots were planted into a stale seedbed with adequate moisture for germination. All plots emerged to a good stand. Good yields were observed at this location due to timely rainfall throughout the growing season and the addition of water with two center-pivot irrigations. Harvest was completed in a timely manner.

Soil type . . . . . .Brooksville and Vaiden silty clay
Soil pH 6.2
Soil fertility . . . . . .P=H, K=H
Fertilizer . . . . . .Preplant — Poultry Litter @ 2 tons/A (fall applied)
Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on April 11
Sidedress — N @ 265 lb/A (32% UAN) on May 22
Herbicide . . . . . .Preemergence — Lexar @ 1.5 qt/A and Gramoxone @ 1 qt/A on April 11
Postemergence — Resicore @ 3 qt/A, Atrazine @ 1 qt/A, and Roundup PowerMAX @ 22 oz/A on May 26
Previous crop . . . .Corn
Planting date . . . . .April 11
Harvest date . . . . .August 23
Irrigation dates . . .Center-pivot irrigation on July 13 and July 28





Rainfall Summary

	Inches
April	0.39
May	5.32
June	9.50
July	2.88
August	5.24
Total	23.33

Table 11. Results from 58 corn hybrids grown with center-pivot irrigation on a Brooksville and Vaiden silty clay soil near Macon, Noxubee County, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
Dyna-Gro	D58VC37	282.2	264.5	254.5	50	0	19.3	10.3	34
Terral Seed	REV 26BHR50	278.1	253.7	249.5	55	12.1	19.6	10.5	34
Augusta	7768	277.4	261.4	265.3	46	0	20.9	10.8	36
Pioneer	P2089VYHR	275.6	265.7	—	50	0	19.9	11.1	35
MorCorn	MC4725	275.4	—	—	48	0	19.1	10.2	34
AgriGold	A6711VT2RIB	275.1	261.2	251.7	48	0	19.3	10.1	36
Augusta	8868	274.9	245.4	242.3	53	0	18.3	10.6	36
Dyna-Gro	D58VC65	272.8	—	—	48	0	19.6	9.6	36
DeKalb	DKC68-26	272.3	263.4	262.9	54	0	19.9	10.3	36
DeKalb	DKC66-75	271.8	261.6	—	50	0	19.6	10.1	36
Croplan	5678	270.2	257.8	—	45	0	19.6	9.7	35
B-H Genetics	BH 8465SS	269.4	—	—	50	0	18.8	9.8	38
Progeny Ag	PGY 6119VT2P	268.8	241.7	—	49	3.4	20.3	9.7	38
DeKalb	DKC70-27	267.5	257.7	—	54	0	21.2	9.7	35
Progeny Ag	PGY 6116VT3P	266.9	249.7	240.0	48	0	18.9	9.9	35
AgriGold	A6652VT2RIB	266.3	253.8	—	51	0	18.5	10.0	34
Progeny Ag	PGY 8116SS	266.3	—	—	51	0	20.1	9.7	36
DeKalb	DKC67-72	266.0	254.3	252.5	45	0	20.3	9.7	35
Progeny Ag	PGY 5115VT2P	265.0	257.4	243.1	42	0	18.9	9.3	38
Great Heart Seed	HT-7302VT2P	264.6	—	—	44	0	19.3	9.5	34
Terral Seed	REV 25BHR26	263.8	244.9	242.7	50	0	18.7	10.7	34
Dyna-Gro	D57VP51	263.8	245.8	250.4	52	0	19.3	9.9	36
Great Heart Seed	HT-7486SS	263.3	—	—	49	0	20.8	9.8	36
Armor	1447P	262.5	—	—	44	0	19.3	9.3	33
Mycogen	MY16M16	262.2	—	—	45	0	19.7	10.9	35
Terral Seed	REV 28R10	261.5	242.8	—	47	0	19.7	10.6	35
Augusta	1166	259.8	—	—	47	0	19.2	10.2	36
Terral Seed	REV 23BHR55	259.1	234.5	237.2	57	0	19.5	10.4	34
Armor	1667S	258.5	—	—	51	0	21.2	9.5	33
AgriGold	A6659VT2RIB	258.4	235.8	238.8	53	0	19.8	10.1	33
Progeny Ag	PGY 7111VT2P	257.0	—	—	50	0	18.3	10.0	35
B-H Genetics	BH 8848SS	256.3	—	—	52	0	19.4	9.7	36
AgriGold	A6544VT2RIB	255.0	248.8	—	45	0	18.6	9.8	33
B-H Genetics	BH 8721VT2P	254.2	—	—	44	0	19.2	10.2	34
NK Seeds	NK1573 111A	254.0	—	—	47	0	19.7	10.3	35
Progeny Ag	PGY 7215VT2P	252.7	—	—	48	0	19.9	9.7	36
DeKalb	DKC62-08	252.3	239.8	237.6	48	0	18.3	9.3	35
DeKalb	DKC67-44	252.2	256.1	—	50	0	19.9	10.3	33
Augusta	7766	251.8	243.9	—	48	0	18.7	10.3	35
Armor	AXT7116 *	251.3	—	—	52	3.4	19.8	9.5	34
Armor	1887P	250.8	—	—	51	1.7	20.8	10.0	34
AgriGold	A6572VT2RIB	250.5	239.1	—	47	0	19.6	9.8	34
DeKalb	DKC65-95	249.2	—	—	46	0	19.8	9.5	37
MorCorn	MC4319	248.0	—	—	41	0	20.3	10.0	34
Augusta	1564	247.8	236.1	—	50	0	19.4	10.5	36
Great Heart Seed	HT-7803 3110VIP	246.3	—	—	56	0	21.0	11.2	34
Augusta	5065	246.3	—	—	51	0	20.1	10.8	35
Armor	1227P	246.1	—	—	47	0	19.1	9.8	33
Armor	1717	246.1	248.5	245.1	55	0	18.9	10.1	32
Terral Seed	REV 28BHR18	245.4	—	—	46	0	20.3	10.9	26
Delta Grow	DG 2888	243.2	231.8	228.9	51	0	20.0	10.5	34
Dyna-Gro	D55VC45	242.6	—	—	50	0	19.4	10.1	33
Delta Grow	DG 3660	241.8	241.9	234.3	46	0	21.1	10.6	35
AgriGold	A645-10VT2RIB	241.0	—	—	50	0	20.1	9.5	34
Great Heart Seed	HT-7381VT2PRIB	240.4	—	—	51	0	19.5	9.6	35
DeKalb	DKC64-35	239.8	245.8	—	45	0	19.2	10.3	37
Dyna-Gro	D54VC52	232.2	222.3	—	47	0	20.7	9.9	30
AgriGold	A6499 VT2 RIB	229.9	227.5	227.8	45	0	18.5	9.8	36
Mean		258.0							
LSD (0.05)		18.9							
CV		5.2							
R^2		53							
Error DF		178							

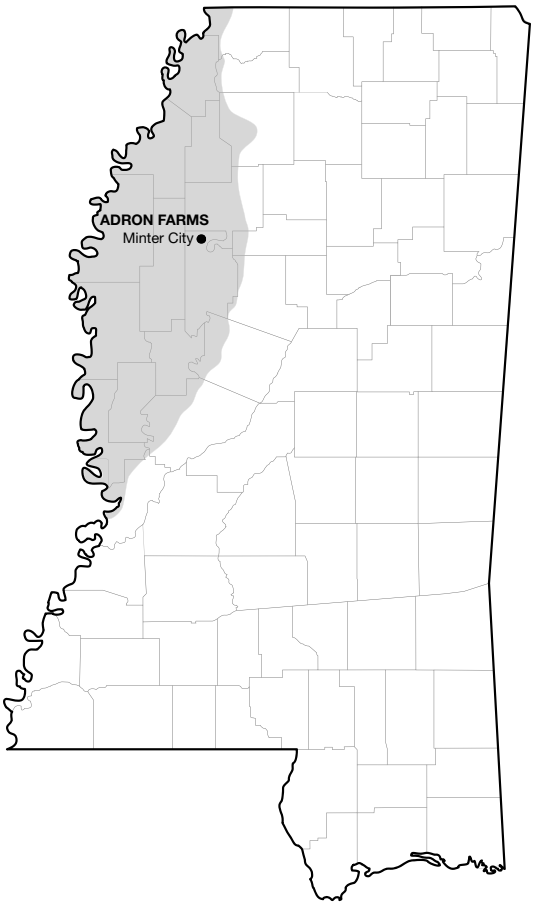
[1]Hybrid followed by an asterisk indicates an experimental entry.

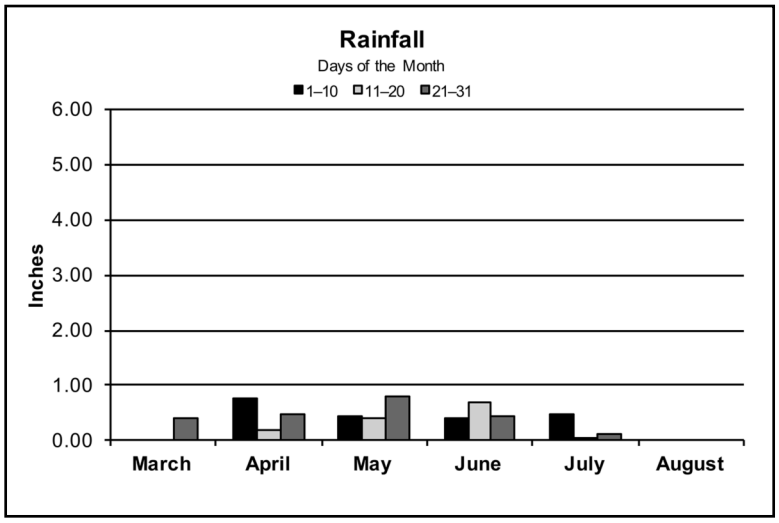
ADRON FARMS, MINTER CITY

Crop Summary

Planting at this location was delayed somewhat due to the frequency of spring rains. Plots were planted into a seedbed with good soil moisture. All plots quickly emerged to a good stand. Timely rains and furrow irrigation provided soil moisture when needed during the growing season. Harvest was completed very early, and excellent yields were observed at this location.

Soil type . . . . . .Dubbs and Dundee silt loam
Soil pH 6.1
Soil fertility . . . . . .P=H, K=M
Fertilizer . . . . . .Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on March 24
Topdress — Urea @ 500 lb/A (100 lb/A applied weekly for 5 weeks starting on March 20); Urea at 100 lb/A, applied at tassel
Herbicide . . . . . .Preemergence — Lexar @ 1.5 qt/A on March 24
Postemergence — Atrazine @ 1 qt/A and Halex GT @ 56 oz/A on April 7
Previous crop . . . .Soybean
Planting date . . . .March 24
Harvest date . . . . .August 1
Irrigation . . . . . .Furrow irrigated as needed





Rainfall Summary

	Inches
March	0.41
April	1.40
May	1.64
June	1.53
July	0.64
August	0.00
Total	5.62

Table 12. Results from 58 corn hybrids grown with furrow irrigation on a Dubs and Dundee silt loam soil near Minter City, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height[2]	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
Terral Seed	REV 26BHR50	283.1	263.4	257.3	42	0	26.0	—	34
Croplan	5678	282.7	266.6	—	30	0	22.9	—	36
Augusta	8868	281.3	271.7	259.0	37	0	22.6	—	35
Dekalb	DKC68-26	279.9	277.2	263.5	35	0	21.5	—	36
Dekalb	DKC62-08	272.4	257.4	244.0	36	0	20.7	—	37
Dekalb	DKC70-27	270.7	267.2	—	33	0	24.3	—	35
B-H Genetics	BH 8721VT2P	269.5	—	—	38	0	22.3	—	33
Dyna-Gro	D57VP51	268.3	258.7	250.1	37	0	21.5	—	36
AgriGold	A6659VT2RIB	268.3	252.3	234.6	36	0	22.4	—	33
Augusta	7768	267.7	243.2	245.1	43	0	25.0	—	36
Dekalb	DKC66-75	266.7	265.8	—	40	0	23.3	—	36
MorCorn	MC4725	266.6	—	—	38	0	21.2	—	34
Terral Seed	REV 25BHR26	266.2	244.2	240.9	38	0	21.7	—	34
Great Heart Seed	HT-7486SS	265.9	—	—	39	0	25.1	—	36
Armor	AXT7116 *	265.6	—	—	38	0	23.7	—	34
Progeny Ag	PGY 8116SS	263.9	—	—	34	0	24.4	—	37
Great Heart Seed	HT-7803 3110VIP	263.6	—	—	39	0	24.9	—	33
Dekalb	DKC65-95	263.2	—	—	36	0	23.5	—	36
Progeny Ag	PGY 6119VT2P	261.9	244.8	—	34	0	25.8	—	38
Dyna-Gro	D58VC65	261.5	—	—	33	0	23.5	—	33
AgriGold	A645-10VT2RIB	261.5	—	—	34	0	22.2	—	34
Terral Seed	REV 28R10	259.5	239.9	—	38	0	24.2	—	34
Armor	1887P	259.5	—	—	37	0	25.4	—	32
AgriGold	A6711VT2RIB	259.4	256.0	237.5	34	0	24.0	—	35
Augusta	1166	258.9	—	—	38	0	21.2	—	36
Pioneer	P2089VYHR	258.7	255.9	—	41	0	23.5	—	36
Dekalb	DKC67-44	258.4	249.4	—	40	0	23.4	—	33
Terral Seed	REV 23BHR55	257.7	249.9	244.6	39	0	22.0	—	34
Armor	1447P	257.7	—	—	32	0	21.5	—	34
AgriGold	A6652VT2RIB	257.6	250.8	—	34	0	21.8	—	34
B-H Genetics	BH 8465SS	255.5	—	—	40	0	22.4	—	37
Dekalb	DKC64-35	253.6	243.7	—	40	0	21.6	—	38
Armor	1667S	253.5	—	—	36	0	24.4	—	33
Dyna-Gro	D58VC37	253.3	248.5	236.1	34	0	24.7	—	33
Great Heart Seed	HT-7302VT2P	253.0	—	—	30	0	22.9	—	35
Progeny Ag	PGY 6116VT3P	251.0	245.0	231.9	36	0	23.7	—	34
Augusta	5065	249.1	—	—	36	0	24.4	—	36
Mycogen	MY16M16	248.1	—	—	34	0	24.2	—	35
Terral Seed	REV 28BHR18	248.0	—	—	36	0	24.9	—	29
AgriGold	A6499 VT2 RIB	247.6	235.8	225.3	32	0	21.6	—	35
Augusta	7766	247.6	246.3	—	39	0	25.2	—	36
Progeny Ag	PGY 7215VT2P	246.1	—	—	32	0	22.0	—	35
B-H Genetics	BH 8848SS	246.0	—	—	34	0	24.5	—	35
Dekalb	DKC67-72	245.7	237.5	225.8	37	0	22.7	—	36
Armor	1227P	245.4	—	—	32	0	21.3	—	34
Armor	1717	245.1	252.0	241.2	38	0	22.7	—	30
Great Heart Seed	HT-7381VT2PRIB	245.0	—	—	37	0	23.1	—	34
Dyna-Gro	D55VC45	243.7	—	—	0	0	23.7	—	34
MorCorn	MC4319	240.4	—	—	36	0	22.4	—	32
AgriGold	A6572VT2RIB	237.1	239.1	—	37	0	23.0	—	32
Progeny Ag	PGY 7111VT2P	237.0	—	—	34	0	20.7	—	37
NK Seeds	NK1573 111A	235.8	—	—	32	0	20.7	—	34
AgriGold	A6544VT2RIB	234.0	253.8	—	35	0	21.9	—	34
Delta Grow	DG 2888	233.0	224.3	223.4	36	0	23.9	—	35
Progeny Ag	PGY 5115VT2P	229.4	248.3	232.7	33	0	24.2	—	36
Dyna-Gro	D54VC52	228.1	218.0	—	38	0	23.2	—	29
Delta Grow	DG 3660	225.4	217.9	210.8	37	0	25.6	—	33
Augusta	1564	224.7	228.3	—	37	0	21.3	—	33
Mean		254.8							
LSD (0.05)		18.7							
CV		5.3							
R^2		63							
Error DF		178							

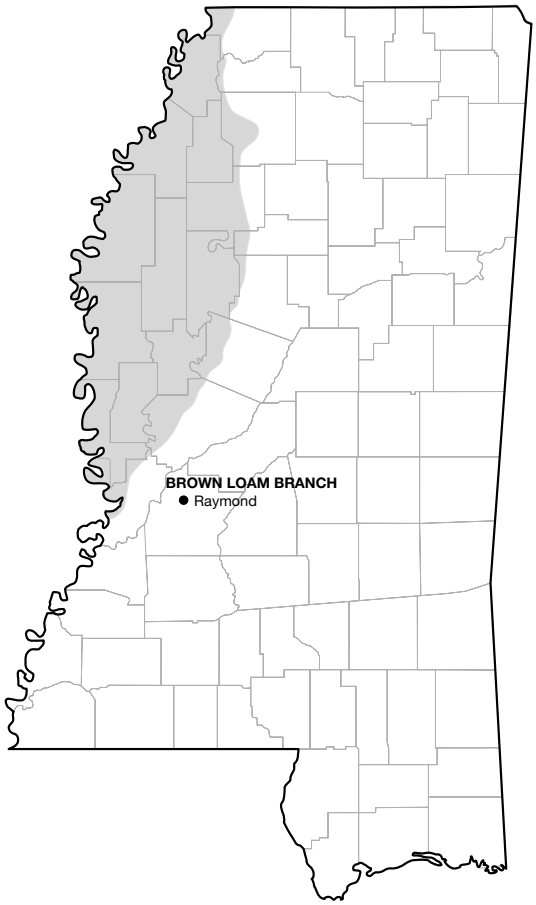
[1]Hybrid followed by an asterisk indicates an experimental entry.
[2]No plant heights recorded.

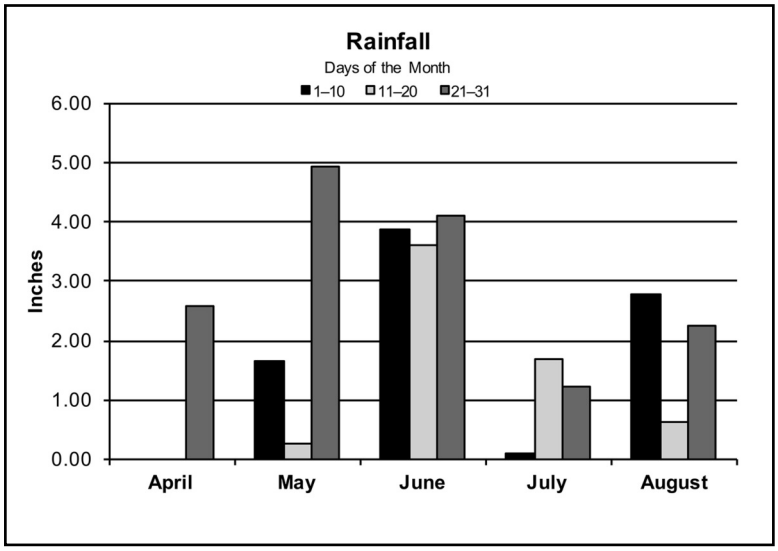
MAFES BROWN LOAM BRANCH, RAYMOND

Crop Summary

Corn plots were planted into a stale seedbed that had been prepared the previous fall. Soil moisture at planting was optimum for germination. All plots emerged to a stand. Timely rainfall occurred at key points throughout the growing season, resulting in very good yields at this dryland location. Harvest was completed in a timely manner.

Soil type . . . . . .Loring silt loam
Soil pH 5.9
Soil fertility . . . . .P=M, K=M
Fertilizer . . . . . .Preplant — 0-20-20 @ 200 lb/A (fall applied)
Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on April 12
Topdress — N @ 46 lb/A (46-0-0) on May 9; N @ 150 lb/A (33-0-0-12S) on May 18
Herbicide . . . . . .Preemergence — Lexar @ 2 qt/A and Roundup PowerMAX @ 1 qt/A on April 12
Postemergence — Roundup PowerMAX @ 24 oz/A, Callisto @ 3 oz/A, and Atrazine @ 8 oz/A on May 18
Previous crop . . .Peanut
Planting date . . . .April 12
Harvest date . . . .August 21





Rainfall Summary

	Inches
April	2.60
May	6.88
June	11.58
July	3.02
August	5.68
Total	29.76

Table 13. Results from 50 corn hybrids grown without irrigation on a Loring silt loam at the MAFES Brown Loam Branch, Raymond, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average[2]	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
Terral Seed	REV 26BHR50	*252.4*	190.1	—	44	1.8	21.1	10.0	29
AgriGold	A6711VT2RIB	252.0	190.0	—	36	3.5	19.8	8.7	32
DeKalb	DKC68-26	250.5	188.2	—	43	1.8	19.3	9.0	30
DeKalb	DKC67-72	247.3	189.4	—	38	1.8	20.9	8.6	33
Delta Grow	DG 2888	242.1	173.1	—	48	1.8	20.5	9.6	33
AgriGold	A6544VT2RIB	241.4	184.7	—	38	1.9	19.0	8.9	31
AgriGold	A6652VT2RIB	239.8	169.5	—	42	1.9	18.7	8.8	32
Terral Seed	REV 28R10	238.3	171.8	—	41	2.0	20.4	9.6	30
Progeny Ag	PGY 5115VT2P	235.7	195.2	—	28	1.5	18.3	8.4	27
Progeny Ag	PGY 6116VT3P	232.0	180.6	—	38	2.0	20.5	8.8	30
Progeny Ag	PGY 6119VT3P	231.2	174.6	—	34	5.0	19.9	8.9	34
Progeny Ag	PGY EXP1715SS *	230.9	—	—	45	1.9	20.0	8.8	33
AgriGold	A6659VT2RIB	229.3	160.2	—	39	3.6	20.4	8.9	32
DeKalb	DKC66-75	227.3	185.1	—	44	1.7	20.5	9.1	33
Augusta	1166	227.3	—	—	44	1.8	17.8	8.4	32
Mycogen	MY16M16	226.4	—	—	40	1.0	19.2	9.4	23
Armor	AXT7116 *	226.0	—	—	40	1.9	20.7	8.8	31
MorCorn	MC4725	225.6	—	—	35	4.3	19.8	9.0	26
Terral Seed	REV 25BHR26	225.6	170.0	—	41	2.0	20.1	9.2	29
Delta Grow	DG 3660	223.2	147.9	—	42	3.6	20.3	9.1	34
Dyna-Gro	D57VP51	222.6	188.1	—	38	2.0	19.8	8.7	29
Armor	1717	221.1	192.0	—	40	7.4	20.3	8.6	30
Terral Seed	REV 23BHR55	218.1	165.1	—	41	2.0	20.0	9.5	29
DeKalb	DKC67-44	217.3	183.6	—	38	1.9	19.6	8.8	30
DeKalb	DKC62-08	217.3	166.9	—	45	1.8	19.9	8.5	31
Dyna-Gro	D57VP75	215.4	189.3	—	42	2.1	19.6	9.3	27
DeKalb	DKC64-35	215.1	180.9	—	37	1.9	21.0	9.1	32
Terral Seed	REV 28BHR18	213.9	—	—	42	2.5	19.8	9.8	21
AgriGold	A6572VT2RIB	213.5	170.3	—	40	2.0	19.2	8.5	30
DeKalb	DKC70-27	213.3	174.8	—	41	3.5	20.9	8.5	32
Pioneer	P1316YHR	211.1	—	—	42	1.9	20.4	9.4	30
Armor	1447P	210.6	—	—	33	1.9	18.4	8.6	29
Armor	1667S	208.1	—	—	44	1.9	20.3	8.6	24
Dyna-Gro	D58VC65	207.6	—	—	36	4.3	18.8	8.5	28
NK Seeds	NK 1405 3220EZ1	206.7	—	—	42	2.0	19.5	9.5	29
Armor	1227P	206.3	—	—	39	1.8	18.7	8.8	31
AgriGold	A6499 VT2 RIB	206.0	160.9	—	38	8.9	18.6	8.7	32
Armor	1887P	201.1	—	—	36	1.8	20.6	8.8	30
Progeny Ag	PGY 7111VT2P	198.0	—	—	38	5.6	18.5	8.7	33
Croplan	6640	190.5	177.1	—	38	1.8	19.1	8.4	28
Augusta	1564	190.0	160.3	—	37	2.1	19.1	9.4	29
Augusta	7766	189.8	165.8	—	34	1.9	18.3	8.9	28
DeKalb	DKC65-95	189.0	—	—	41	1.9	21.0	9.0	32
Croplan	5290	188.4	157.2	—	38	1.0	19.7	8.4	29
Dyna-Gro	D55VC45	187.3	—	—	42	2.2	19.9	8.8	27
AgriGold	A645-10VT2RIB	184.4	—	—	45	1.9	20.1	8.2	31
MorCorn	MC4319	179.0	—	—	33	2.5	20.4	8.7	26
Progeny Ag	PGY 7215VT2P	175.6	—	—	43	3.6	19.8	8.4	31
Dyna-Gro	D54VC52	159.4	133.8	—	36	2.5	19.9	8.2	25
Progeny Ag	PGY 6110VT2P	134.6	—	—	34	2.2	18.4	8.4	26
Mean		214.5							
LSD (0.05)		29.8							
CV		10.3							
R^2		63							
Error DF		186							

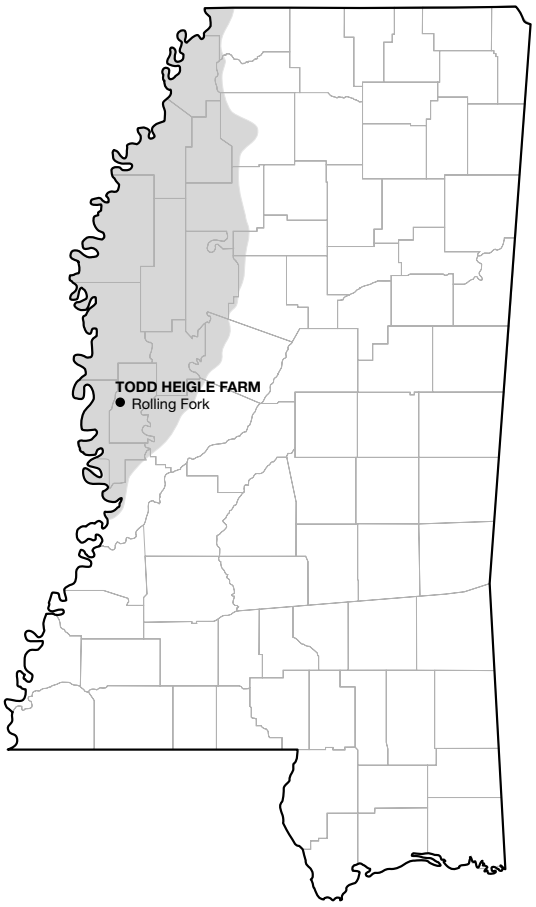
[1]Hybrid followed by an asterisk indicates an experimental entry.
[2]No 3-year average.

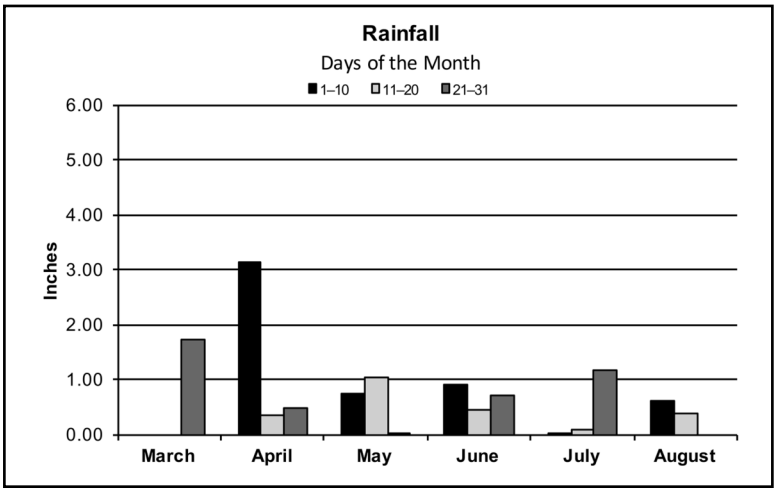
TODD HEIGLE FARM, ROLLING FORK

Crop Summary

Corn plots were planted into a stale seedbed that had been prepared the previous fall. Moisture was optimum at planting for germination. Plots quickly emerged to a stand. Timely rainfall and irrigation allowed for ample soil moisture throughout the growing season. Harvest was made in a timely manner, and excellent yields were observed.

Soil type . . . . . .Commerce silty clay loam
Soil pH 6.3
Soil fertility . . . . .P=H, K=H
Fertilizer . . . . . .Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on March 22
Topdress — N @ 240 lb/A (Urea [46-0-0] applied as a split application)
Herbicide . . . . . .Preemergence — Gramoxone @ 1 qt/A and Lexar @ 1.5 qt/A on March 22
Postemergence — Capreno @ 3 oz/A and Atrazine @ 1.5 qt/A
Previous crop . . .Soybean
Planting date . . .March 22
Harvest date . . . .August 16
Irrigation . . . . . .Furrow irrigated as needed





Rainfall Summary

	Inches
March	1.73
April	3.99
May	1.80
June	2.08
July	1.29
August	1.02
Total	11.91

Table 14. Results from 58 corn hybrids grown with furrow irrigation on a Commerce silty clay loam soil near Rolling Fork, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
Terral Seed	REV 23BHR55	293.1	258.8	254.0	41	0	16.7	8.4	35
Pioneer	P2089VYHR	292.0	267.4	—	44	0	17.7	9.0	34
Augusta	8868	290.6	254.0	253.7	50	0	18.0	9.1	36
Terral Seed	REV 28R10	288.9	267.2	—	44	0	18.1	9.2	35
Dyna-Gro	D57VP51	287.7	251.8	248.9	35	0	17.9	8.1	36
MorCorn	MC4725	286.2	—	—	39	0	17.9	8.6	34
Terral Seed	REV 25BHR26	285.1	249.2	247.8	40	0	17.5	8.6	34
DeKalb	DKC70-27	284.1	252.4	—	38	0	18.4	8.4	35
Terral Seed	REV 26BHR50	282.3	252.3	247.9	39	0	17.8	8.9	34
AgriGold	A6659VT2RIB	282.1	249.8	241.6	37	0	17.2	8.3	35
Augusta	1166	281.6	—	—	36	0	18.2	8.4	37
Great Heart Seed	HT-7302VT2P	281.3	—	—	35	0	19.0	8.2	36
Augusta	5065	279.9	—	—	40	0	17.9	8.9	35
Augusta	7768	279.9	252.9	252.4	42	0	18.6	8.8	36
DeKalb	DKC62-08	279.4	246.2	239.0	40	0	17.8	8.4	36
B-H Genetics	BH 8465SS	277.0	—	—	41	0	18.2	8.3	37
Mycogen	MY16M16	275.8	—	—	40	0	17.8	8.5	36
DeKalb	DKC68-26	275.6	254.0	248.2	39	0	18.9	8.3	35
Progeny Ag	PGY 6116VT3P	274.3	243.2	228.9	40	0	18.9	8.4	36
Great Heart Seed	HT-7486SS	273.5	—	—	37	0	18.3	8.3	37
Croplan	5678	273.5	242.5	—	34	0	17.6	8.3	36
Armor	1717	270.8	243.9	245.5	37	0	17.5	8.4	34
Progeny Ag	PGY 6119VT2P	269.0	225.6	—	40	0	19.8	8.3	38
Dyna-Gro	D58VC65	269.0	—	—	32	0	18.9	7.9	34
Terral Seed	REV 28BHR18	268.3	—	—	51	0	17.5	9.2	29
DeKalb	DKC66-75	264.8	237.5	—	35	0	17.6	8.2	36
DeKalb	DKC65-95	264.0	—	—	37	0	17.8	8.3	37
Armor	AXT7116 *	263.8	—	—	42	0	17.9	8.6	34
B-H Genetics	BH 8721VT2P	263.1	—	—	39	0	18.3	8.4	34
Progeny Ag	PGY 8116SS	261.3	—	—	44	0	18.7	8.6	36
NK Seeds	NK1573 111A	260.4	—	—	35	0	18.7	8.3	35
DeKalb	DKC67-44	259.7	239.1	—	41	0	18.5	8.4	34
Armor	1447P	258.8	—	—	36	0	17.9	8.0	33
Armor	1667S	258.5	—	—	43	0	18.1	8.4	33
AgriGold	A6652VT2RIB	258.3	243.2	—	34	0	17.2	8.2	33
Progeny Ag	PGY 5115VT2P	255.7	248.3	237.1	34	0	18.0	8.1	38
AgriGold	A6544VT2RIB	255.6	239.0	—	36	0	17.4	8.3	33
Progeny Ag	PGY 7111VT2P	255.4	—	—	36	0	17.3	7.9	37
AgriGold	A6711VT2RIB	255.4	237.3	232.2	37	0	17.6	7.8	35
Dyna-Gro	D58VC37	254.1	230.8	233.1	33	0	16.6	8.1	33
MorCorn	MC4319	253.0	—	—	39	0	17.1	8.6	34
DeKalb	DKC64-35	252.4	237.5	—	39	0	17.6	8.3	37
Armor	1887P	251.6	—	—	40	0	16.7	8.4	34
B-H Genetics	BH 8848SS	250.1	—	—	40	0	17.4	7.6	35
Progeny Ag	PGY 7215VT2P	250.0	—	—	39	0	19.3	8.3	35
AgriGold	A645-10VT2RIB	250.0	—	—	38	0	19.6	8.4	33
Dyna-Gro	D54VC52	246.7	225.6	—	40	0	17.6	8.4	31
Dyna-Gro	D55VC45	244.2	—	—	39	0	18.4	8.1	34
Augusta	7766	243.9	241.2	—	40	0	16.7	8.5	36
DeKalb	DKC67-72	242.4	230.8	221.7	35	0	18.0	8.0	36
Augusta	1564	242.1	226.0	—	43	0	16.7	8.9	33
AgriGold	A6572VT2RIB	240.0	220.7	—	32	0	17.1	8.4	34
Armor	1227P	238.0	—	—	35	0	18.0	8.1	34
Delta Grow	DG 3660	237.2	231.5	224.6	39	0	18.1	8.7	34
Great Heart Seed	HT-7803 3110VIP	236.2	—	—	42	0	18.6	8.6	33
Great Heart Seed	HT-7381VT2PRIB	235.8	—	—	38	0	16.8	8.3	36
Delta Grow	DG 2888	234.4	227.1	218.2	38	0	18.1	8.6	35
AgriGold	A6499 VT2 RIB	233.2	221.6	224.1	31	0	16.9	8.1	37
Mean		262.8							
LSD (0.05)		19.6							
CV		5.3							
R^2		67.0							
Error DF		178							

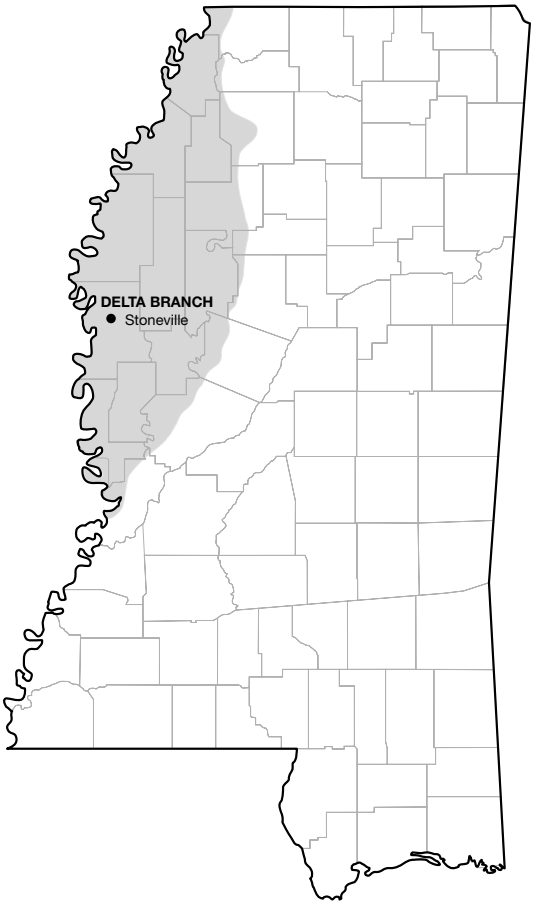
[1]Hybrid followed by an asterisk indicates an experimental entry.

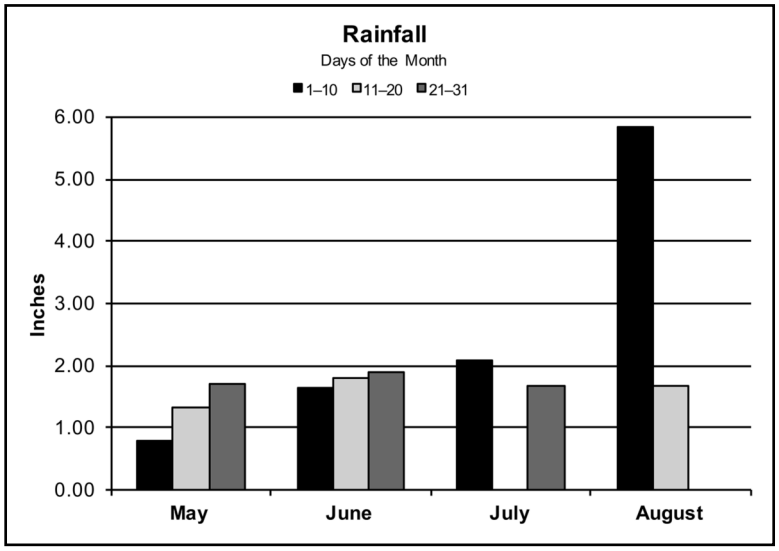
MAFES DELTA BRANCH, STONEVILLE (CLAY)

Crop Summary

Corn plots were planted in late March into a stale seedbed that had been prepared the previous fall. There was adequate soil moisture at planting for germination. Plots quickly emerged to a good stand. Timely rains fell throughout the growing season, requiring very little supplemental irrigation. Harvest was completed in a timely manner, and good yields were observed.

Soil type . . . . . .Sharkey clay
Soil pH 6.8
Soil fertility . . . . .P=H, K=H
Fertilizer . . . . . .Starter — 10-20-5-1S-0.43Zn @ 18 gal/A on March 24
Sidedress — N @ 150 lb/A (32% UAN) on April 10 and N @ 100 lb/A (32% UAN) on April 27
Herbicide . . . . . .Preemergence — Lexar @ 2 qt/A and Gramoxone @ 1 qt/A on March 24
Postemergence — Roundup PowerMAX @ 24 oz/A, Atrazine @ 8 oz/A, and Callisto @ 3 oz/A on May 11
Previous crop . . .Soybean
Planting date . . .May 5
Harvest date . . . .August 25
Irrigation . . . . . .June 15





Rainfall Summary

	Inches
May	3.84
June	5.34
July	3.73
August	7.53
Total	20.44

Table 15. Results from 58 corn hybrids grown with furrow irrigation on a Sharkey clay soil at MAFES Delta Branch, Stoneville, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
Terral Seed	REV 26BHR50	262.7	219.3	196.5	38	1.8	16.4	7.8	33
Terral Seed	REV 23BHR55	261.0	216.6	193.5	33	0.0	14.6	8.1	34
DeKalb	DKC70-27	260.3	227.9	—	38	0.0	15.8	7.5	34
Terral Seed	REV 28R10	258.9	218.8	—	36	1.7	16.2	8.2	34
Pioneer	P2089VYHR	258.1	212.1	—	34	3.3	15.8	8.3	35
DeKalb	DKC65-95	257.4	—	—	32	0.0	15.4	7.8	37
Great Heart Seed	HT-7486SS	255.4	—	—	38	0.0	15.1	7.9	33
Progeny Ag	PGY 8116SS	255.1	—	—	40	0.0	15.3	7.9	37
Augusta	5065	253.0	—	—	34	12.7	16.1	8.4	34
Terral Seed	REV 25BHR26	251.9	216.3	192.0	37	0.0	14.5	8.3	33
AgriGold	A6659VT2RIB	249.9	211.9	189.5	31	0.0	15.5	7.8	34
Dyna-Gro	D57VP51	249.2	225.5	210.3	31	0.0	15.0	7.2	36
Progeny Ag	PGY 6119VT2P	248.2	212.9	—	39	0.0	15.9	7.8	36
DeKalb	DKC66-75	247.2	222.7	—	38	0.0	14.6	7.5	37
Armor	1447P	246.8	—	—	31	0.0	14.3	7.3	33
DeKalb	DKC67-44	244.9	226.6	—	34	3.6	15.2	7.8	33
Great Heart Seed	HT-7803 3110VIP	244.6	—	—	37	0.0	16.3	8.2	34
DeKalb	DKC62-08	243.8	214.1	187.9	38	0.0	14.4	7.7	35
Augusta	8868	243.4	211.0	193.8	36	3.1	15.0	7.9	36
Dyna-Gro	D58VC37	242.9	218.1	200.7	35	0.0	14.7	7.4	33
Mycogen	MY16M16	241.5	—	—	37	0.0	15.5	7.8	35
B-H Genetics	BH 8465SS	241.2	—	—	38	0.0	14.8	7.7	37
B-H Genetics	BH 8721VT2P	240.6	—	—	26	0.0	15.0	7.4	33
Progeny Ag	PGY 5115VT2P	240.2	207.0	189.0	32	0.0	15.1	7.6	35
AgriGold	A6711VT2RIB	240.1	216.0	204.9	34	3.4	15.1	7.6	35
Augusta	1166	239.2	—	—	38	0.0	14.4	7.4	36
Croplan	5678	238.8	210.7	—	31	0.0	14.9	7.5	36
Dyna-Gro	D58VC65	238.0	—	—	32	0.0	14.6	7.8	33
Terral Seed	REV 28BHR18	236.8	250.1	—	34	0.0	15.5	8.4	27
AgriGold	A6652VT2RIB	235.9	216.8	—	35	0.0	14.4	7.3	34
MorCorn	MC4725	235.1	—	—	33	0.0	15.0	7.9	33
B-H Genetics	BH 8848SS	234.4	—	—	31	0.0	15.1	7.3	36
Armor	1887P	234.1	—	—	39	0.0	16.0	7.8	33
Armor	1227P	233.8	—	—	30	0.0	14.9	7.4	34
Armor	1667S	233.6	—	—	38	0.0	15.0	7.6	33
Great Heart Seed	HT-7381VT2PRIB	232.8	—	—	29	1.6	15.3	7.7	35
DeKalb	DKC64-35	232.0	201.3	—	35	1.6	14.9	7.9	36
Great Heart Seed	HT-7302VT2P	231.6	—	—	33	0.0	14.1	7.7	33
AgriGold	A6499 VT2 RIB	230.7	193.2	181.9	29	0.0	14.5	7.3	36
AgriGold	A6544VT2RIB	229.8	210.9	—	29	1.8	14.4	7.5	34
Progeny Ag	PGY 6116VT3P	229.6	202.4	189.4	33	0.0	14.9	7.5	35
Progeny Ag	PGY 7215VT2P	229.4	—	—	35	0.0	15.2	7.5	35
Armor	1717	228.7	211.3	193.4	36	0.0	15.1	7.2	31
Delta Grow	DG 2888	228.5	200.3	185.2	30	3.4	16.0	7.5	36
Delta Grow	DG 3660	228.4	216.1	197.3	32	5.0	15.5	7.9	34
Dyna-Gro	D55VC45	227.2	—	—	30	0.0	14.8	7.4	35
Augusta	7768	226.6	214.8	206.2	29	5.3	16.8	8.4	33
DeKalb	DKC67-72	225.2	209.9	193.2	35	1.6	15.2	7.5	36
Augusta	7766	222.6	192.8	—	37	0.0	14.8	7.5	36
Armor	AXT7116 *	222.6	—	—	34	0.0	15.2	7.5	34
NK Seeds	NK1573 111A	222.4	—	—	33	3.1	14.5	7.8	36
MorCorn	MC4319	221.5	—	—	38	0.0	15.2	7.5	32
AgriGold	A645-10VT2RIB	221.4	—	—	38	0.0	14.8	7.3	34
Progeny Ag	PGY 7111VT2P	219.7	—	—	30	0.0	13.9	7.4	37
DeKalb	DKC68-26	217.6	203.6	180.0	27	3.5	14.7	7.7	34
Dyna-Gro	D54VC52	217.0	191.4	—	34	0.0	15.3	7.5	30
AgriGold	A6572VT2RIB	215.5	196.6	—	35	3.4	15.4	7.5	30
Augusta	1564	205.4	186.9	—	32	0.0	14.8	7.8	34
Mean		237.3							
LSD (0.05)		17.35							
CV		5.3							
R2		62							
Error DF		178							

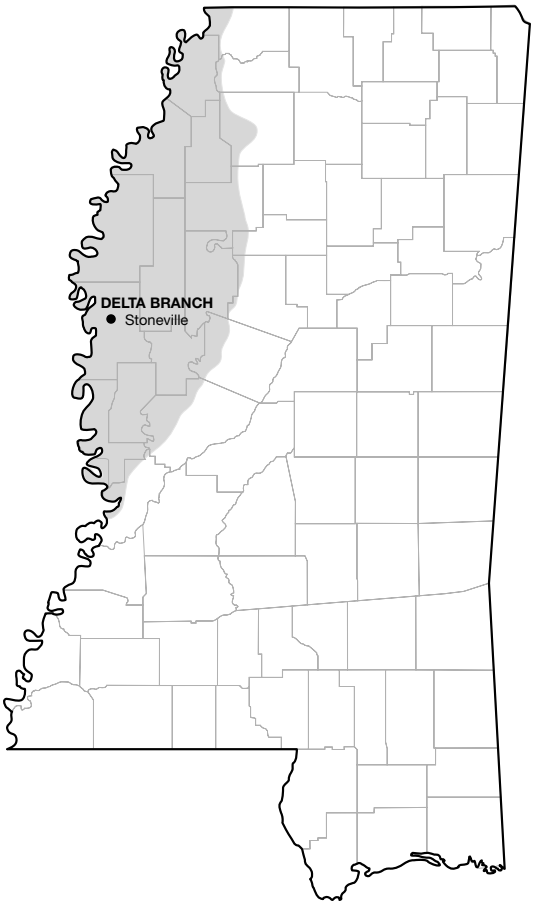
[1]Hybrid followed by an asterisk indicates an experimental entry.

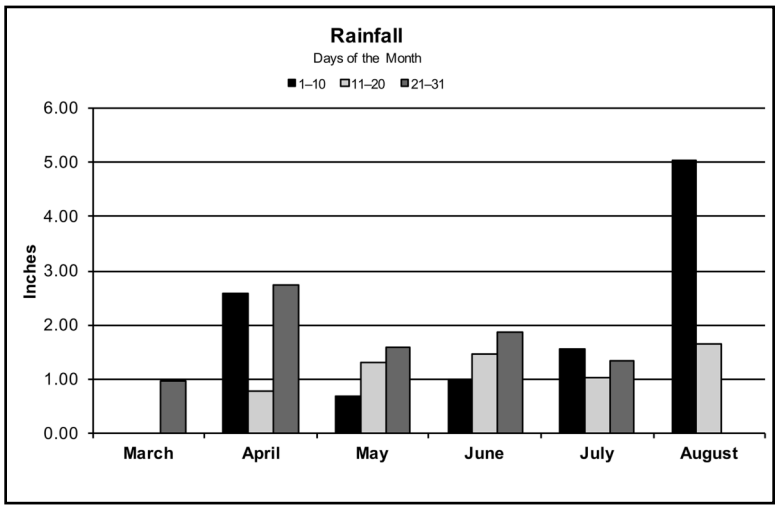
MAFES DELTA BRANCH, STONEVILLE (LOAM)

Crop Summary

The plots were planted into a conventionally tilled seedbed that had been hipped and do-alled just before planting. Soil moisture was perfect at the time of planting for quick germination and uniform emergence. All plots emerged to a stand. Spring rains after planting hindered nitrogen sidedress applications, resulting in all nitrogen being applied at once in early May. The remainder of the growing season was favorable, with frequent rainfall occurrences during late summer. Harvest was completed in a timely manner in late August.

Soil type . . . . . .Bosket and Commerce very fine sandy loam
Soil pH 6.8
Soil fertility . . . . .P=H, K=H
Fertilizer . . . . . .Starter — 10-20-5-1S-0.43ZN @ 18 gal/A (applied 2x2) on March 22
Sidedress — N @ 150 lb/A (32% UAN) on April 7 and N @ 100 lb/A (32% UAN) on April 26
Herbicide . . . . . .Preemergence — Lexar @ 3 qt/A and Gramoxone @ 1 qt/A on March 22
Previous crop . . .Corn
Planting date . . .March 22
Harvest date . . . .August 22
Irrigation . . . . . .June 30, July 18





Rainfall Summary

	Inches
March	0.96
April	6.08
May	3.60
June	4.33
July	3.91
August	6.69
Total	25.57

Table 16. Results from 58 corn hybrids grown with furrow irrigation on a Bosket and Commerce very fine sandy loam soil at the MAFES Delta Branch, Stoneville, 2017.

Brand name	Hybrid number[1]	2017 yield	2-year average	3-year average	Ear height	Stalk lodging	Moisture content	Plant height	Harvested population
		bu/A	*bu/A*	*bu/A*	*in*	*%*	*%*	*ft*	*x1000*
Terral Seed	REV 23BHR55	295.3	257.5	262.6	40	17.6	15.4	8.8	34
Pioneer	P2089VYHR	287.3	253.3	—	42	11.9	16.9	8.9	36
Terral Seed	REV 26BHR50	284.6	248.7	255.8	38	1.7	17.7	9.0	33
Augusta	8868	280.6	258.3	259.6	40	1.7	16.3	8.2	37
Augusta	5065	278.4	—	—	34	7.8	17.4	8.7	32
DeKalb	DKC62-08	275.1	249.0	249.3	42	1.6	15.6	7.7	37
Augusta	1166	271.8	—	—	35	1.7	15.7	8.6	36
Progeny Ag	PGY 8116SS	270.2	—	—	41	1.6	16.7	7.8	36
Mycogen	MY16M16	268.3	—	—	37	3.3	17.1	8.5	35
AgriGold	A6659VT2RIB	268.1	224.3	230.9	30	16.1	16.1	8.3	36
Great Heart Seed	HT-7486SS	267.0	—	—	40	1.6	16.3	8.2	34
MorCorn	MC4725	266.2	—	—	26	5.4	15.9	8.2	35
Dyna-Gro	D57VP51	264.4	238.7	244.1	35	1.6	15.9	8.1	35
Progeny Ag	PGY 6119VT2P	264.1	234.1	—	42	16.7	17.3	7.7	35
B-H Genetics	BH 8465SS	262.1	—	—	31	24.6	15.9	7.9	36
DeKalb	DKC66-75	260.4	244.7	—	33	11.4	16.4	7.9	37
Croplan	5678	257.5	239.8	—	34	9.4	15.7	7.3	34
Terral Seed	REV 25BHR26	256.1	234.7	249.3	39	26.3	15.8	8.0	34
DeKalb	DKC64-35	254.2	240.3	—	38	1.6	16.5	8.3	36
DeKalb	DKC68-26	253.6	238.9	241.3	30	27.6	15.7	7.8	34
NK Seeds	NK1573 111A	252.9	—	—	42	21.7	16.3	7.7	38
Dyna-Gro	D58VC37	250.6	229.3	238.6	33	13.3	15.8	7.7	33
Terral Seed	REV 28BHR18	250.1	—	—	40	2.1	16.7	8.6	26
Dyna-Gro	D58VC65	249.3	—	—	30	2.0	16.2	7.6	35
AgriGold	A6544VT2RIB	247.9	231.7	—	40	1.7	15.5	7.8	34
Progeny Ag	PGY 5115VT2P	247.8	236.0	235.5	36	6.3	16.1	8.0	36
B-H Genetics	BH 8848SS	247.4	—	—	37	3.4	16.1	7.5	34
Progeny Ag	PGY 6116VT3P	246.7	235.4	234.0	41	1.6	16.3	8.2	36
Great Heart Seed	HT-7381VT2PRIB	246.5	—	—	33	21.1	16.8	8.2	36
DeKalb	DKC67-72	246.0	226.2	229.6	33	13.1	16.1	7.5	34
DeKalb	DKC67-44	244.1	236.9	—	39	1.7	16.4	8.0	33
Armor	1447P	243.6	—	—	34	1.8	15.4	7.7	33
Armor	1667S	241.6	—	—	37	3.4	16.4	7.9	33
AgriGold	A6711VT2RIB	240.7	229.2	234.3	33	1.6	16.8	8.0	31
Armor	1717	240.4	230.6	242.5	30	12.7	16.1	8.0	31
Terral Seed	REV 28R10	239.9	232.2	—	46	1.8	16.4	8.3	33
Armor	1887P	239.0	—	—	36	6.7	17.0	8.0	33
Augusta	7766	238.0	218.9	—	35	1.7	16.2	7.6	35
B-H Genetics	BH 8721VT2P	237.4	—	—	38	5.3	16.5	7.9	33
AgriGold	A645-10VT2RIB	234.9	—	—	31	18.9	16.5	8.3	34
Delta Grow	DG 2888	233.8	198.3	207.6	38	1.7	16.6	8.2	34
Augusta	7768	231.4	211.0	235.2	39	20.6	17.1	8.1	35
Dyna-Gro	D55VC45	231.0	—	—	34	1.7	15.9	8.1	34
Augusta	1564	230.8	203.4	—	28	6.1	16.1	8.3	35
DeKalb	DKC70-27	230.4	235.5	—	43	1.7	17.2	8.0	31
AgriGold	A6572VT2RIB	230.1	226.6	—	48	1.8	16.3	8.0	34
Progeny Ag	PGY 7215VT2P	229.9	—	—	39	19.0	16.3	8.2	33
Delta Grow	DG 3660	228.7	216.3	223.8	36	1.6	17.4	8.5	35
AgriGold	A6652VT2RIB	228.2	210.8	—	36	19.3	15.5	7.9	33
DeKalb	DKC65-95	227.9	—	—	38	1.7	16.4	8.3	35
Armor	AXT7116 *	227.0	—	—	38	11.1	15.8	8.0	33
Armor	1227P	225.1	—	—	32	5.1	16.0	8.0	31
Great Heart Seed	HT-7803 3110VIP	223.4	—	—	40	3.4	17.9	8.7	33
MorCorn	MC4319	218.2	—	—	38	16.0	16.1	7.9	36
AgriGold	A6499 VT2 RIB	217.6	212.3	224.1	32	1.6	16.0	7.8	31
Dyna-Gro	D54VC52	210.4	200.7	—	41	1.8	16.2	8.4	29
Progeny Ag	PGY 7111VT2P	209.8	—	—	29	1.8	15.1	7.3	36
Great Heart Seed	HT-7302VT2P	206.8	—	—	34	12.3	15.4	7.7	30
Mean		246.7							
LSD (0.05)		31.0							
CV		8							
R^2		70							
Error DF		119							

[1]Hybrid followed by an asterisk indicates an experimental entry.

Table 17. Characteristics provided by sponsoring companies for corn hybrids entered in the Mississippi Corn for Grain Hybrid Trials, 2017.

Company	Hybrid	Trait	Planting rate (x1000)	Seed treatment	Days to maturity
AgriGold Hybrids	A6499VT2RIB	RR, VT2P	32	P500+Votivo	112
5381 Akin Rd.	A645-10VT2RIB	RR, VT2P	32	P500+Votivo	115
St. Francisville, IL 62460	A6711VT2PRO	RR, VT2P	32	P500+Votivo	118
618-292-5844	A6659VT2RIB	RR, VT2P	32	P500+Votivo	116
	A6544VT2RIB	RR, VT2P	32	P500+Votivo	113
	A6572VT2RIB	RR, VT2P	32	P500+Votivo	114
	A6652VT2RIB	RR, VT2P	32	P500+Votivo	116
Armor Seed	1227P	RR, VT2P	32	A500/Votivo	112
183 Pennsylvania Ave.	1447P	RR, VT2P	32	A500/Votivo	114
Waldenburg, AR 72475	1667S	RR, SS	32	A500/Votivo	115
662-719-3157	1717	RR, VT2P	34	A500/Votivo	117
	AXT7116	RR, VT2P	32	A500/Votivo	116
	1887P	RR, SS	32	A500/Votivo	118
Augusta Seed	7768	RR, LL	36	Cruiser 250	118
P.O. Box 899	7766	RR, VT2P	36	Cruiser 250	116
Verona, VA 24482	1564	RR, LL	36	Cruiser 250	114
540-255-5901	5065	RR, LL	36	Cruiser 250	115
	1166	VT2P	36	Cruiser 250	116
	8868	RR, VT3P	36	Cruiser 250	118
B-H Genetics	BH 8465SS	SS	38	P/V 500	114
5933 FM 1157	BH 8721VT2P	VT2P	34	P/V 500	117
Ganado, TX 77962	BH 8848SS	SS	36	P/V 500	118
361-771-8722					
Delta Grow Seed	2888	RR, LL, VIP	36	Poncho 250	117
220 NW 2nd	3660	RR, LL, VIP	36	Poncho 250	118
England, AR 72046					
501-842-2572					
Great Heart Seed	HT-7486SS	SS	36	P500Votivo	114
220 West Washington St.	HT-7381VT2PRIB	VT2P	36	P500Votivo	113
Paris, IL 61944	HT-7803 3110VIP	VIP	34	Cruiser 500	118
217-465-4132	HT-7302VT2P	VT2P	36	P500Votivo	113
Syngenta Seeds	NK1405 3220 EZ1	RR, LL, VIP, HX	30	Cruiser and Avictia30	114
11055 Wayzata Blvd.	NK1573 3111A	RR, VIP	36	Cruiser and Avictia30	115
Minnetonka, MN 55305					
270-519-9600					
Terral Seed Inc.	REV 23BHR55	RR, LL	30	MQ+P1250+V	113
111 Ellington Dr.	REV 25BHR26	RR, LL	30	MQ+P1250+V	115
Rayville, LA 71269	REV 26BHR50	RR, LL	30	MQ+P1250+V	116
318-341-8814	REV 28R10	RR, LL	30	MQ+P1250+V	118
	REV28BHR18	RR, LL	30	MQ+P1250+V	118
Mycogen Seeds	MY16M16	RR, SS	32	Cruiser Maxx 1250	115
253 Avondale Rd.					
Greenville, MS 38703					
662-822-1964					
DuPont Pioneer	P1316YHR	RR, LL, HX, YG	32	P1250 + Votivo	113
425 Abbeydale Way	P2089VYHR	RR, LL, HX, VIP	36	P1250 + Votivo	120
Columbia, SC 29229					
803-308-1003					
Progeny AG Products	5115VT2P	RR, VT2P	38	PV500	115
1529 Hwy. 193	6116VT3P	RR, VT2P	34	PV500	116
Wynne, AR 72396	6110VT2P	RR, VT2P	34	PV500	110
979-587-9968	7111VT2P	RR, VT2P	34	PV500	111
	7215VT2P	RR, VT2P	36	PV500	115
	6119VT2P	RR, VT2P	36	PV500	119
	8116SS	RR, LL, SS	34	PV500	115

Table 17 (continued). Characteristics provided by sponsoring companies for corn hybrids entered in the Mississippi Corn for Grain Hybrid Trials, 2017.

Company	Hybrid	Trait	Planting rate (x1000)	Seed treatment	Days to maturity
Monsanto	DKC70-27	VT2P	34	Poncho 1250/Votivo	120
108 Bayberry Ln.	DKC68-26	VT2P	36	Poncho 1250/Votivo	118
Madison, MS 39110	DKC67-72	VT2P	34	Poncho 1250/Votivo	117
601-317-2661	DKC65-95	VT2P	34	Poncho 1250/Votivo	115
	DKC66-75	VT2P	34	Poncho 1250/Votivo	116
	DKC67-44	VT2P	34	Poncho 1250/Votivo	117
	DKC64-35	VT2P	34	Poncho 1250/Votivo	114
	DKC62-08	SS	34	Poncho 1250/Votivo	112
Dyna-Gro Seed	D54VC52	VT2P	28	P500	114
254 U.S. Hwy. 72	D57VP75	VT3P	28	P500	117
Collierville, TN 38017	D55VC45	VT2P	28	P500	115
662-401-6311	D58VC65	VT2P	28	P500	118
	D57VP51	VT3P	30	P500	117
	D58VC37	VT2P	34	P500	118
SeedKoz	MC4319	RR, VT2P	28	Acceleron 250 + QUICK ROOTS	113
339 Royal Crest Circle	MC4725	RR, VT2P	28	Acceleron 250 + QUICK ROOTS	117
Kathleen, GA 31047					
478-957-9865					
Land O'Lakes Inc. /	5678	—	36	—	—
Croplan by Winfield	1640	—	32	—	—
P.O. Box 64131	5290	—	32	—	—
St. Paul, MN 55164-0131					

MS AGRICULTURAL AND
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George M. Hopper, Director **www.mafes.msstate.edu**