MISSISSIPPI CORN FOR GRAIN

HYBRID TRIALS, 2018

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MISSISSIPPI'S OFFICIAL VARIETY TRIALS

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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 28–29 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 28–29.

Mississippi Corn for Grain Hybrid Trials, 2018

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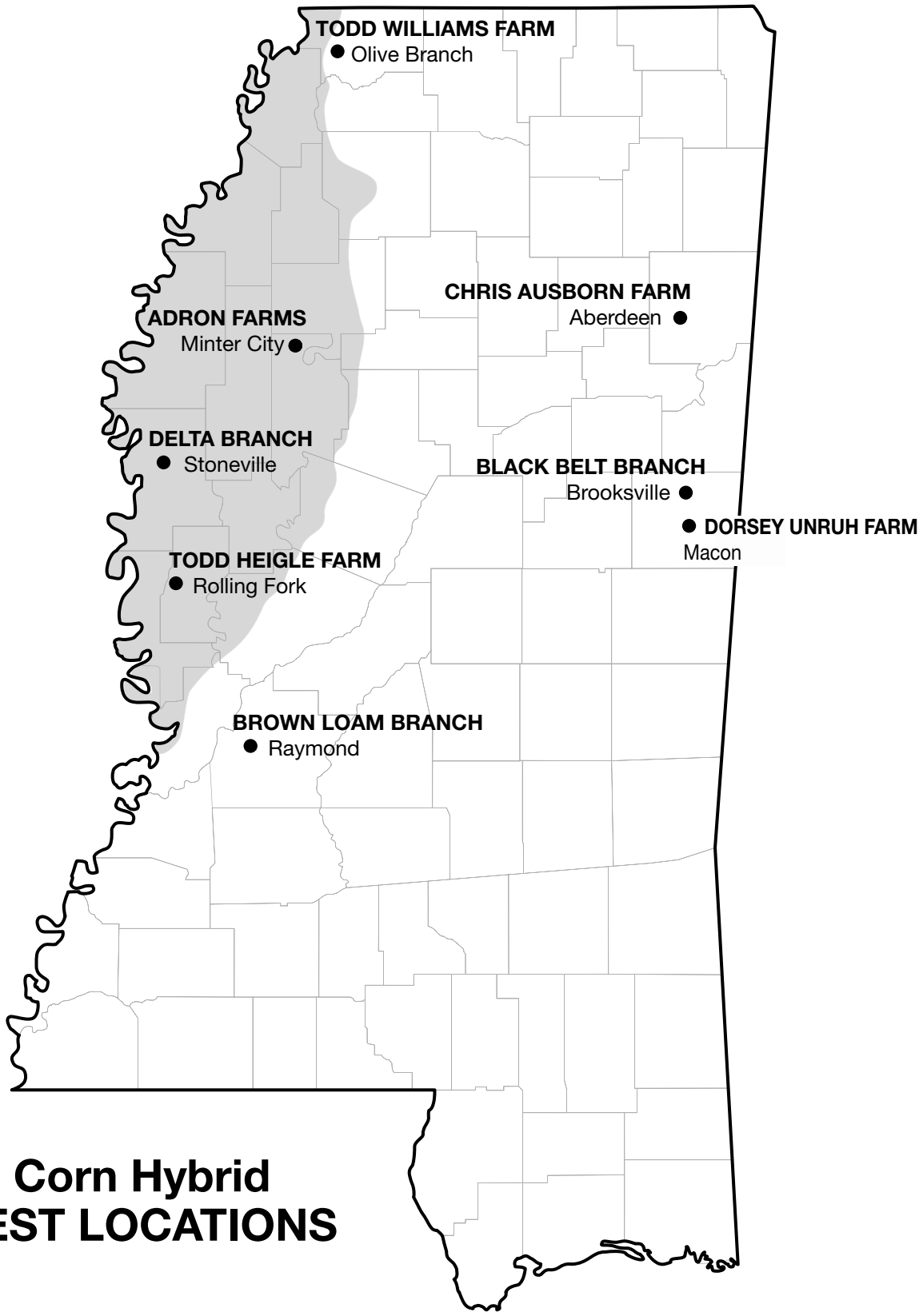
Find variety trial information online at ***mafes.msstate.edu/variety-trials***.



Corn Hybrid TEST LOCATIONS

Mississippi Corn for Grain Hybrid Trials, 2018

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. 2018 corn hybrid trials location summary.

Location	Irrigation	Soil type	Planting date	Harvest date	Row spacing
Aberdeen, Chris Ausborn Farm	Not Irrigated	Houston clay	3/26	8/31	30”
Brooksville, Black Belt Branch	Not Irrigated	Brooksville silty clay	3/26	8/15	30”
Macon, Dorsey Unruh Farm	Irrigated	Vaiden silty clay	4/6	8/28	30”
Olive Branch, Todd Williams Farm	Not Irrigated	Collins silt loam	5/3	10/9	30”
Stoneville (clay), Delta Branch	Irrigated	Sharkey clay	3/22	8/30	30”
Stoneville (loam), Delta Branch	Irrigated	Bosket very fine sandy loam	3/22	8/30	30”
Rolling Fork (1), Todd Heigle Farm	Irrigated	Commerce silty clay loam	4/12	8/23	30”
Rolling Fork (2), Todd Heigle Farm	Not Irrigated	Commerce silty clay loam	4/12	8/23	30”
Raymond, Brown Loam Branch	Not Irrigated	Loring silt loam	3/23	8/14	30”
Minter City, Ricky Belk Farm[1]	Irrigated	—	—	—	30”

[1]Excessive rainfall during spring delayed planting beyond planting window for this location.

Table 2. 2018 corn hybrid yield summary for dryland locations.

Brand	Hybrid[1]	Aberdeen	Brooksville	Olive Branch	Rolling Fork	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A645-10VT2RIB	173.7	179.3	236.5	204.5	198.5
AgriGold	A647-90VT2RIB	154.3	195.8	234.8	214.7	199.9
AgriGold	A6544VT2RIB	177.7	165.3	239.7	241.5	206.1
AgriGold	A6659VT2RIB	161.9	181.8	258.5	235.2	209.3
AgriGold	A6572VT2RIB	183.0	198.0	271.2	203.1	213.8
AgriGold	A6711VT2PRO	186.8	195.3	281.5	208.7	218.0
Armor	1447	116.1	173.3	242.7	223.6	188.9
Armor	1667	188.3	184.8	238.6	212.7	206.1
Armor	1887	151.7	174.5	228.6	196.4	187.8
Armor	X8117 *	149.4	182.0	234.8	207.6	193.4
Armor	X8118 *	162.6	179.8	226.1	214.3	195.7
Augusta	A5065	175.5	157.0	213.2	221.1	191.7
Augusta	A8868	167.7	171.8	203.0	219.9	190.6
Augusta	A1165 *	159.9	186.3	235.1	203.0	196.1
Augusta	A1367 *	170.0	177.5	230.6	255.0	208.3
Augusta	A4463 *	175.7	161.3	239.4	238.6	203.7
Augusta	A4465 *	165.5	168.5	224.2	217.5	193.9
Augusta	A5464 *	158.3	176.3	223.3	195.0	188.2
Croplan	5678	165.6	183.8	290.3	229.6	217.3
DeKalb	DKC62-08	104.6	201.3	248.2	225.2	194.8
DeKalb	DKC64-35	182.8	184.5	260.4	227.0	213.7
DeKalb	DKC65-95	153.7	198.8	236.4	230.4	204.8
DeKalb	DKC66-75	190.9	180.3	259.6	241.5	218.1
DeKalb	DKC67-44	188.0	199.8	255.2	235.4	219.6
DeKalb	DKC68-26	158.3	199.8	225.6	236.6	205.1
DeKalb	DKC68-69	174.1	189.8	255.4	226.0	211.3
DeKalb	DKC69-16	169.7	192.3	231.7	222.5	204.1
DeKalb	DKC70-27	182.7	201.0	235.3	239.3	214.6
Dyna Gro	CX17117 *	180.4	197.8	243.1	200.7	205.5
Dyna Gro	D54VC14	144.0	174.0	224.0	207.3	187.3
Dyna Gro	D57VC51	178.9	175.0	236.3	225.1	203.8
Dyna-Gro	D55VC45	177.0	181.0	225.0	207.8	197.7
Dyna-Gro	D58VC65	171.0	195.3	260.6	212.6	209.9
Local Seed	AV8614VYHR	182.8	166.8	251.9	221.6	205.8
Local Seed	LC0877VT2P	132.4	176.5	204.8	210.3	181.0
Local Seed	LC1577VT2P	138.6	170.0	223.1	184.6	179.1
Local Seed	LC1776VT2P	122.5	152.8	190.7	207.2	168.3
Local Seed	LC1878VT2P	180.0	177.5	215.1	213.1	196.4
Local Seed	LC1987VT2P	151.1	177.3	207.7	199.2	183.8
Local Seed	LS1586TC	105.3	184.3	235.3	238.6	190.9
Local Seed	RL8430VYHR	152.5	175.8	201.1	222.6	188.0
Mission Seeds	A1857SS	194.5	190.5	263.9	227.7	219.2
Mission Seeds	MEX1508DGVT2P *	159.3	203.8	259.7	251.0	218.4
MorCorn	MC 4457	158.4	182.0	230.1	206.0	194.1
MorCorn	MC4319	164.8	175.8	237.1	212.8	197.6
MorCorn	MC4725	146.2	184.5	220.7	204.5	189.0
Pioneer	P0805AM	156.7	164.0	221.2	208.5	187.6
Progeny Ag.	PGY 7118VT2P	182.3	161.5	219.9	228.3	198.0
Progeny Ag.	PGY 8116SS	206.3	203.0	262.0	233.5	226.2
Progeny Ag.	PGY EXP1814 *	157.3	185.5	260.0	230.3	208.3
Progeny Ag.	PGY EXP1817 *	179.4	184.5	238.1	238.3	210.1
Progeny Ag.	PGY 6110VT2P	155.4	137.0	185.2	186.0	165.9
Progeny Ag.	PGY 6119VT2P	160.2	193.5	247.1	219.3	205.0
Progeny Ag.	PGY 7111VT2P	172.6	163.5	210.5	224.4	192.8
Progeny Ag.	PGY 6116VT2P	164.0	175.3	250.4	218.9	202.1
Progeny Ag.	PGY 5115VT2P	178.9	199.8	266.3	249.7	223.6
Terral Seed	REV 23BHR55	186.1	168.0	219.7	237.0	202.7
Terral Seed	REV 24BHR99 *	193.7	183.5	261.5	228.9	216.9
Terral Seed	REV 25BHR26	178.7	165.0	217.3	221.6	195.6
Terral Seed	REV 25BHR89 *	162.0	164.0	202.6	212.8	185.3
Terral Seed	REV 25R27	170.4	170.3	189.7	213.3	185.9
Terral Seed	REV 27BHR79 *	173.1	197.5	252.3	250.0	218.2
Terral Seed	REV 28BHR18	185.1	179.3	234.1	244.9	210.8
Terral Seed	REV 2616PWE	164.2	158.8	207.0	235.0	191.3
Mean		165.7	180.2	234.9	221.2	200.5
CV		11.5	9.2	10.3	7.3	
LSD (0.05)		26.7	23.1	33.6	22.6	
R^2		60.0	61.2	54.1	58.5	
Error DF		189	189	189	189	

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

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

Brand	Hybrid	Aberdeen	Brooksville	Olive Branch	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*
AgriGold	A645-10VT2RIB	203.5	171.7	214.8	196.7
AgriGold	A6544VT2RIB	225.9	169.8	242.7	212.8
AgriGold	A6659VT2RIB	216.4	179.6	244.9	213.6
AgriGold	A6572VT2RIB	209.1	175.7	236.1	207.0
AgriGold	A6711VT2PRO	223.3	185.7	253.5	220.8
Armor	1447	187.3	177.1	245.2	203.2
Armor	1667	221.0	176.6	233.8	210.5
Armor	1887	197.2	168.8	225.9	197.3
DeKalb	DKC62-08	179.3	200.3	241.9	207.2
DeKalb	DKC64-35	224.3	175.6	254.3	218.0
DeKalb	DKC65-95	203.7	182.8	223.1	203.2
DeKalb	DKC66-75	226.6	180.5	257.6	221.6
DeKalb	DKC67-44	223.3	185.7	251.6	220.2
DeKalb	DKC68-26	205.1	191.5	232.8	209.8
DeKalb	DKC70-27	215.7	184.9	225.5	208.7
Dyna-Gro	D55VC45	195.4	170.0	218.2	194.6
Dyna-Gro	D58VC65	207.3	189.1	248.2	214.9
MorCorn	MC4319	203.4	169.5	222.1	198.4
MorCorn	MC4725	196.4	168.8	214.5	193.2
Progeny Ag.	PGY 8116SS	223.2	192.1	240.3	218.5
Progeny Ag.	PGY 6110VT2P	175.3	129.4	193.0	165.9
Progeny Ag.	PGY 6119VT2P	197.1	186.9	244.1	209.4
Progeny Ag.	PGY 7111VT2P	208.9	158.0	213.5	193.5
Progeny Ag.	PGY 6116VT2P	212.8	181.3	245.5	213.2
Progeny Ag.	PGY 5115VT2P	211.6	184.1	243.6	213.1
Terral Seed	REV 23BHR55	221.3	169.3	219.9	203.5
Terral Seed	REV 25BHR26	211.5	171.7	217.4	200.2
Terral Seed	REV 28BHR18	209.3	170.9	229.4	203.2
Terral Seed	REV 2616PWE	211.4	166.9	204.7	194.4
Mean		208.5	176.3	232.3	205.7

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

Brand	Hybrid	Aberdeen	Brooksville	Olive Branch	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*
AgriGold	A6544VT2RIB	212.2	154.6	198.4	188.4
AgriGold	A6659VT2RIB	205.9	162.2	190.2	186.1
AgriGold	A6572VT2RIB	204.9	156.5	203.2	188.2
AgriGold	A6711VT2PRO	209.1	155.3	203.5	189.3
DeKalb	DKC62-08	180.8	168.3	199.3	182.8
DeKalb	DKC64-35	213.0	159.7	203.2	192.0
DeKalb	DKC66-75	217.1	154.6	206.9	192.9
DeKalb	DKC67-44	216.5	161.4	212.4	196.8
DeKalb	DKC68-26	194.0	176.6	184.6	185.1
DeKalb	DKC70-27	206.7	156.1	184.3	182.4
Progeny Ag.	PGY 6119VT2P	196.5	166.5	196.7	186.6
Progeny Ag.	PGY 6116VT2P	206.2	164.4	198.3	189.6
Progeny Ag.	PGY 5115VT2P	205.9	170.5	191.0	189.2
Terral Seed	REV 23BHR55	209.6	143.6	179.7	177.6
Terral Seed	REV 25BHR26	201.5	143.6	181.0	175.4
Overall Mean		205.3	159.6	195.5	186.8

Table 5. 2018 corn hybrid yield summary for irrigated locations.

Brand	Hybrid[1]	Macon	Rolling Fork	Stoneville (clay)	Stoneville (loam)	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A645-10VT2RIB	227.8	212.9	226.8	205.5	218.2
AgriGold	A646-12STX	221.6	224.9	240.4	204.1	222.8
AgriGold	A647-90VT2RIB	237.4	209.0	235.4	209.8	222.9
AgriGold	A6544VT2RIB	249.9	227.2	224.2	217.9	229.8
AgriGold	A6559VT2RIB	254.9	236.1	241.6	237.8	242.6
AgriGold	A6572VT2RIB	246.9	232.3	234.2	243.2	239.1
AgriGold	A6711VT2PRO	242.2	224.0	249.9	222.8	234.7
Armor	1447	227.5	221.4	247.8	211.2	227.0
Armor	1667	228.7	195.8	227.4	249.4	225.3
Armor	1887	227.5	208.8	229.8	226.7	223.2
Armor	X8117 *	210.5	220.7	227.5	223.2	220.5
Armor	X8118 *	210.1	227.1	235.5	221.6	223.6
Augusta	A5065	212.5	223.6	223.3	229.3	222.2
Augusta	A7768	229.9	218.3	258.7	243.7	237.6
Augusta	A8868	218.8	209.7	251.5	204.9	221.2
Augusta	A1165 *	243.1	231.4	235.2	206.5	229.1
Augusta	A1367	220.7	240.2	248.1	234.9	236.0
Augusta	A4463 *	220.6	225.3	233.1	195.8	218.7
Augusta	A4465 *	211.2	199.9	200.5	205.1	204.2
Augusta	A5464 *	204.5	190.6	239.5	222.6	214.3
Croplan	5678	240.8	229.5	236.8	203.6	227.7
DeKalb	DKC62-08	231.0	222.4	235.9	223.1	228.1
DeKalb	DKC64-35	247.6	217.8	242.1	221.7	232.3
DeKalb	DKC65-95	244.4	226.7	266.3	228.1	241.4
DeKalb	DKC66-75	238.7	230.0	255.6	209.0	233.3
DeKalb	DKC67-44	234.5	235.6	238.7	247.0	239.0
DeKalb	DKC68-26	232.6	234.7	210.9	208.2	221.6
DeKalb	DKC68-69	232.5	223.7	253.6	200.1	227.5
DeKalb	DKC69-16	220.0	221.1	247.7	212.8	225.4
DeKalb	DKC70-27	247.3	226.8	250.4	240.9	241.3
Dyna Gro	CX17117 *	233.0	222.2	254.3	235.1	236.1
Dyna Gro	D54VC14	232.8	206.5	241.3	199.5	220.0
Dyna Gro	D57VC51	244.8	226.7	215.3	208.0	223.7
Dyna-Gro	D55VC45	230.7	211.0	249.2	225.9	229.2
Dyna-Gro	D58VC65	246.2	228.0	233.8	191.0	224.7
Great Heart Seed	HT-7244VT2P	215.1	201.0	228.0	190.1	208.5
Great Heart Seed	HT-7302VT2P	225.7	205.8	226.6	210.2	217.1
Great Heart Seed	HT-7381VT2P	235.1	191.9	234.1	221.7	220.7
Great Heart Seed	HT-7425DGVT2P	237.2	228.0	268.3	228.2	240.4
Great Heart Seed	HT-7486SS	222.4	194.6	240.1	201.8	214.7
Great Heart Seed	HT-7676VT2P	229.9	226.1	223.9	202.0	220.5
Local Seed	AV8614VYHR	248.4	236.9	264.5	278.0	257.0
Local Seed	LC0877VT2P	224.6	197.9	220.0	221.3	216.0
Local Seed	LC1577VT2P	207.4	182.9	236.7	223.4	212.6
Local Seed	LC1776VT2P	216.4	227.7	227.0	226.9	224.5
Local Seed	LC1878VT2P	215.9	210.4	245.3	226.8	224.6
Local Seed	LC1987VT2P	216.4	204.0	207.0	211.2	209.7
Local Seed	LS1586TC	230.8	231.9	239.6	223.4	231.4
Local Seed	RL8430VYHR	221.7	236.2	242.0	247.5	236.8
Mission Seeds	A1857SS	241.8	204.9	251.4	244.9	235.7
Mission Seeds	MEX 1308VT2P *	195.7	182.7	220.4	168.6	191.8
Mission Seeds	MEX 1508DGVT2P *	253.4	183.4	277.4	235.9	237.5
MorCorn	MC 4457	203.1	211.3	232.7	191.5	209.7
MorCorn	MC4319	232.2	214.7	204.3	205.5	214.2
MorCorn	MC4725	256.6	237.2	181.3	204.3	219.8
NK Seeds	NK1573-3110	225.0	202.9	234.0	200.9	215.7
NK Seeds	NK1584-3000GT	222.2	207.2	252.6	216.1	224.5
Pioneer	P2089VYHR	221.0	229.5	242.8	241.2	233.6
Progeny Ag	PGY 8116SS	233.2	223.9	245.2	228.3	232.6
Progeny Ag	PGY EXP1814 *	218.8	205.8	234.9	226.1	221.4
Progeny Ag	PGY EXP1817 *	260.1	248.7	213.1	216.2	234.5
Progeny Ag	PGY 6119VT2P	237.5	225.6	232.7	249.0	236.2
Progeny Ag.	PGY 6116VT2P	236.1	225.4	230.4	215.7	226.9
Progeny Ag.	PGY 5115VT2P	222.3	170.3	245.5	236.6	218.7

Continued.

Table 5 (continued). 2018 corn hybrid yield summary for irrigated locations.						
Brand	**Hybrid[1]**	**Macon**	**Rolling Fork**	**Stoneville (clay)**	**Stoneville (loam)**	**Overall avg.**
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
Terral Seed	REV 23BHR55	234.4	241.3	246.5	243.9	241.5
Terral Seed	REV 24BHR99 *	230.8	224.7	247.2	254.4	239.3
Terral Seed	REV 25BHR26	225.7	234.4	258.9	245.8	241.2
Terral Seed	REV 25BHR89 *	225.1	228.0	215.5	221.7	222.6
Terral Seed	REV 25R27	217.1	212.0	216.0	226.2	217.8
Terral Seed	REV 27BHR79 *	238.7	243.1	252.4	257.4	247.9
Terral Seed	REV 28BHR18	230.5	242.6	248.5	264.7	246.5
Terral Seed	REV 2616PWE	230.1	204.5	221.4	247.3	225.8
Mean		229.7	218.4	236.8	222.6	226.9
CV		7.4	9.5	8.0	9.4	
LSD (0.05)		23.7	28.8	30.4	33.7	
R^2		51.3	48.0	55.1	58.3	
Error DF		213	213	142	142	

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

Table 6. Two-year corn hybrid yield summary for irrigated locations.						
Brand	**Hybrid[1]**	**Macon**	**Rolling Fork**	**Stoneville (clay)**	**Stoneville (loam)**	**Overall avg.**
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A645-10VT2RIB	234.4	231.5	224.1	220.2	227.5
AgriGold	A6544VT2RIB	252.4	241.4	227.0	232.9	238.4
AgriGold	A6659VT2RIB	256.6	259.1	245.7	252.9	253.6
AgriGold	A6572VT2RIB	248.7	236.2	224.9	236.6	236.6
AgriGold	A6711VT2PRO	258.6	239.7	245.0	231.7	243.8
Armor	1447	245.0	240.1	247.3	227.4	239.9
Armor	1667	243.6	227.1	230.5	245.5	236.7
Armor	1887	239.1	230.2	232.0	232.8	233.5
Augusta	A5065	229.4	251.7	238.2	253.8	243.3
Augusta	A7768	253.7	249.1	242.7	237.5	245.7
Augusta	A8868	246.9	250.2	247.5	242.8	246.8
Croplan	5678	255.5	251.5	237.8	230.5	243.8
DeKalb	DKC62-08	241.6	250.9	239.8	249.1	245.4
DeKalb	DKC64-35	243.7	235.1	237.0	237.9	238.5
DeKalb	DKC65-95	246.8	245.4	261.8	228.0	245.5
DeKalb	DKC66-75	255.2	247.4	251.4	234.7	247.2
DeKalb	DKC67-44	243.4	247.6	241.8	245.6	244.6
DeKalb	DKC68-26	252.4	255.2	214.3	230.9	238.2
DeKalb	DKC70-27	257.4	255.4	255.3	235.6	251.0
Dyna-Gro	D55VC45	236.7	227.6	238.2	228.5	232.7
Dyna-Gro	D58VC65	259.5	248.5	235.9	220.1	241.0
Great Heart Seed	HT-7302VT2P	245.2	243.6	229.1	208.5	231.6
Great Heart Seed	HT-7381VT2P	237.7	213.9	233.4	234.1	229.8
Great Heart Seed	HT-7486SS	242.9	234.0	247.8	234.4	239.8
MorCorn	MC4319	240.1	233.9	212.9	211.8	224.7
MorCorn	MC4725	266.0	261.7	208.2	235.2	242.8
NK Seeds	NK1573-3110	239.5	231.7	228.2	226.9	231.6
Pioneer	P2089VYHR	248.3	260.7	250.5	264.2	255.9
Progeny Ag	PGY 8116SS	249.7	242.6	250.2	249.2	247.9
Progeny Ag	PGY 6119VT2P	253.2	247.3	240.4	256.5	249.4
Progeny Ag.	PGY 6116VT2P	251.5	249.9	230.0	231.2	240.6
Progeny Ag.	PGY 5115VT2P	243.7	213.0	242.8	242.2	235.4
Terral Seed	REV 23BHR55	246.8	267.2	253.7	269.6	259.3
Terral Seed	REV 25BHR26	244.7	259.8	255.4	251.0	252.7
Terral Seed	REV 28BHR18	237.9	255.4	242.6	257.4	248.3
Terral Seed	REV 2616PWE	246.2	240.1	231.5	257.8	243.9
Overall Mean		247.1	243.8	238.2	238.5	241.9

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

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

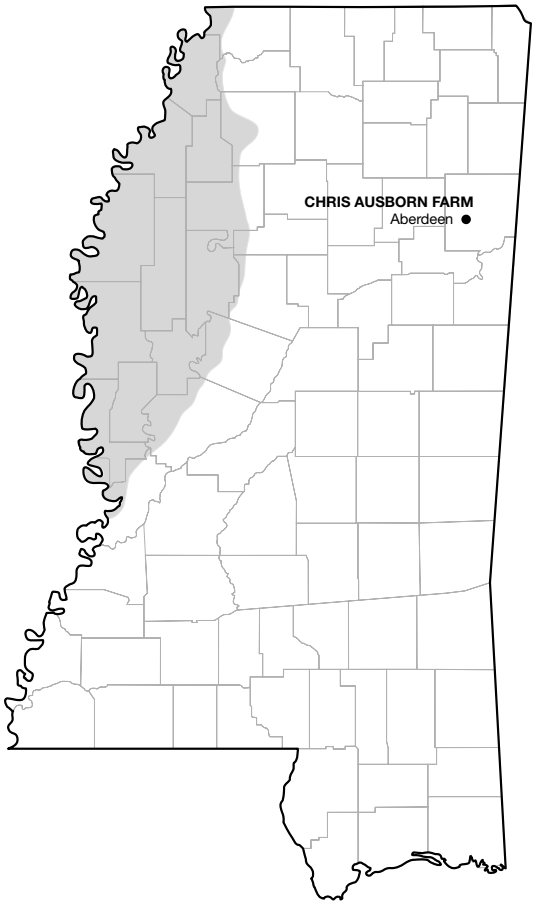
Brand	Hybrid[1]	Macon	Rolling Fork	Stoneville (clay)	Stoneville (loam)	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AgriGold	A6544VT2RIB	249.2	235.1	215.4	227.1	231.7
AgriGold	A6659VT2RIB	247.8	246.3	229.3	236.3	240.0
AgriGold	A6572VT2RIB	241.7	224.5	209.1	232.1	226.9
AgriGold	A6711VT2PRO	254.9	232.9	227.3	227.1	235.5
Augusta	A7768	250.9	241.4	229.4	221.9	235.9
Augusta	A8868	236.5	239.2	224.5	240.5	235.2
Croplan	5678	252.1	238.2	219.4	227.7	234.4
DeKalb	DKC62-08	236.9	238.2	221.4	240.4	234.2
DeKalb	DKC64-35	246.4	231.0	214.9	234.1	231.6
DeKalb	DKC66-75	254.0	235.0	233.7	232.8	238.9
DeKalb	DKC67-44	248.9	237.9	230.6	240.3	239.4
DeKalb	DKC68-26	253.1	247.5	206.0	228.7	233.8
DeKalb	DKC70-27	254.3	243.9	235.4	237.3	242.7
Pioneer	P2089VYHR	250.8	254.8	222.3	249.3	244.3
Progeny Ag.	PGY 6119VT2P	240.3	225.6	219.5	239.1	231.1
Progeny Ag.	PGY 6116VT2P	245.2	237.3	211.7	228.8	230.7
Progeny Ag.	PGY 5115VT2P	245.7	222.3	219.8	236.2	231.0
Terral Seed	REV 23BHR55	234.5	253.0	226.5	253.0	241.8
Terral Seed	REV 25BHR26	238.5	244.3	230.5	238.4	237.9
Mean		246.4	238.3	222.5	235.3	235.6

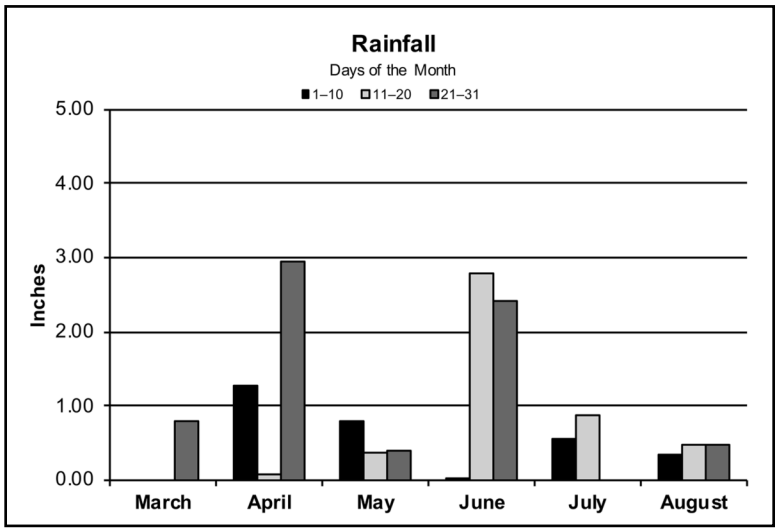
CHRIS AUSBORN FARM, ABERDEEN

Crop Summary

Corn plots were planted in late March with adequate soil moisture for germination. All plots emerged to a stand. Emergence was followed by wet conditions throughout early May. Adequate rainfall was received through June. Drier conditions were encountered in July and early August. Harvest was completed in a timely manner.

Soil type . . . . . Houston clay
Soil pH 6.0
Soil fertility . . . . . P=M, K=M
Fertilizer . . . . . Preplant — 0-20-30 @ 300 lb/A (fall applied)
Sidedress — N @ 180 lb/A (32% UAN)
Herbicide . . . . . Burndown — Glyphosate @ 32 oz/A and 2,4-D @ 1.5 pt
Preemergence — Zidua @ 2 oz/A and Roundup PowerMAX @ 32 oz/A on March 26
Postemergence — Glyphosate @ 22 oz/A and Atrazine @ 2 qt/A on May 12
Previous crop . . . Soybeans
Planting date . . . March 26
Harvest date . . . . August 31





Rainfall Summary

	Inches
March	0.80
April	4.28
May	1.56
June	5.22
July	1.42
August	1.28
Total	14.56

Table 8. Results from 64 corn hybrids grown without irrigation on a Houston clay soil near Aberdeen, Monroe County, 2018.

Brand name	Hybrid[1]	2018 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*
Progeny Ag.	PGY 8116SS	206.3	223.2	—	37	0.0	16.6	8.1	38
Mission Seeds	A1857SS	194.5	—	—	36	0.0	16.4	8.1	38
Terral Seed	REV 24BHR99 *	193.7	—	—	43	0.0	15.6	8.8	32
DeKalb	DKC66-75	190.9	226.6	217.1	36	13.1	15.9	8.0	36
Armor	1667	188.3	221.0	—	40	0.0	16.4	8.5	31
DeKalb	DKC67-44	188.0	223.3	216.5	33	0.0	16.8	8.4	33
AgriGold	A6711VT2PRO	186.8	223.3	209.1	35	0.0	15.7	8.0	33
Terral Seed	REV 23BHR55	186.1	221.3	209.6	32	0.0	15.2	8.0	32
Terral Seed	REV 28BHR18	185.1	209.3	—	43	3.8	16.2	9.0	31
AgriGold	A6572VT2RIB	183.0	209.1	204.9	0	0.0	16.1	8.1	33
Local Seed	AV8614VYHR	182.8	—	—	35	11.8	15.7	8.6	30
DeKalb	DKC64-35	182.8	224.3	213.0	36	0.0	15.7	8.0	38
DeKalb	DKC70-27	182.7	215.7	206.7	41	0.0	16.5	7.9	34
Progeny Ag.	PGY 7118VT2P	182.3	—	—	38	0.0	15.8	8.5	31
Dyna Gro	CX17117 *	180.4	—	—	39	0.0	16.4	8.7	28
Local Seed	LC1878VT2P	180.0	—	—	40	3.6	16.2	8.0	32
Progeny Ag.	PGY EXP1817 *	179.4	—	—	38	0.0	15.4	7.8	34
Dyna Gro	D57VC51	178.9	—	—	37	0.0	15.5	7.6	31
Progeny Ag.	PGY 5115VT2P	178.9	211.6	205.9	36	0.0	15.7	8.3	36
Terral Seed	REV 25BHR26	178.7	211.5	201.5	46	0.0	15.3	8.8	31
AgriGold	A6544VT2RIB	177.7	225.9	212.2	38	1.8	15.3	7.9	34
Dyna-Gro	D55VC45	177.0	195.4	—	33	0.0	15.7	7.9	29
Augusta	A4463 *	175.7	—	—	38	3.5	15.1	8.2	34
Augusta	A5065	175.5	—	—	42	0.0	16.2	8.6	33
DeKalb	DKC68-69	174.1	—	—	32	0.0	17.5	7.9	35
AgriGold	A645-10VT2RIB	173.7	203.5	—	37	0.0	16.5	7.9	34
Terral Seed	REV 27BHR79 *	173.1	—	—	42	0.0	16.4	9.1	31
Progeny Ag.	PGY 7111VT2P	172.6	208.9	—	38	0.0	15.1	7.6	35
Dyna-Gro	D58VC65	171.0	207.3	—	34	0.0	15.5	7.9	29
Terral Seed	REV 25R27	170.4	—	—	35	0.0	15.3	8.7	29
Augusta	A1367 *	170.0	—	—	34	0.0	15.1	8.7	33
DeKalb	DKC69-16	169.7	—	—	0	0.0	16.1	7.7	35
Augusta	A8868	167.7	—	—	44	0.0	15.9	8.7	32
Croplan	5678	165.6	—	—	36	11.3	15.6	7.7	35
Augusta	A4465 *	165.5	—	—	33	2.0	15.3	8.3	31
MorCorn	MC4319	164.8	203.4	—	36	0.0	16.4	8.3	28
Terral Seed	REV 2616PWE	164.2	211.4	—	41	8.6	15.8	8.9	34
Progeny Ag.	PGY 6116VT2P	164.0	212.8	206.2	38	1.7	15.6	7.9	34
Armor	X8118 *	162.6	—	—	38	13.0	16.0	8.2	31
Terral Seed	REV 25BHR89 *	162.0	—	—	38	0.0	15.6	8.7	29
AgriGold	A6659VT2RIB	161.9	216.4	205.9	38	14.3	14.5	8.0	35
Progeny Ag.	PGY 6119VT2P	160.2	197.1	196.5	37	8.6	16.6	7.8	34
Augusta	A1165 *	159.9	—	—	39	12.5	15.9	8.1	33
Mission Seeds	MEX1508DGVT2P *	159.3	—	—	30	4.7	15.9	8.0	37
MorCorn	MC 4457	158.4	—	—	39	0.0	15.5	8.1	28
DeKalb	DKC68-26	158.3	205.1	194.0	34	0.0	15.6	8.1	34
Augusta	A5464 *	158.3	—	—	34	0.0	15.3	8.4	34
Progeny Ag.	PGY EXP1814 *	157.3	—	—	33	0.0	15.6	7.4	37
Pioneer	P0805AM	156.7	—	—	40	0.0	15.1	8.4	31
Progeny Ag.	PGY 6110VT2P	155.4	175.3	—	39	0.0	15.6	7.9	36
AgriGold	A647-90VT2RIB	154.3	—	—	38	0.0	16.8	8.1	33
DeKalb	DKC65-95	153.7	203.7	—	40	13.3	16.5	8.0	35
Local Seed	RL8430VYHR	152.5	—	—	40	0.0	15.1	8.3	28
Armor	1887	151.7	197.2	—	38	3.9	17.0	8.3	30
Local Seed	LC1987VT2P	151.1	—	—	38	0.0	17.0	8.1	27
Armor	X8117 *	149.4	—	—	35	13.5	15.6	7.6	31
MorCorn	MC4725	146.2	196.4	—	32	0.0	15.5	8.2	27
Dyna Gro	D54VC14	144.0	—	—	34	0.0	15.4	7.7	28
Local Seed	LC1577VT2P	138.6	—	—	29	10.9	15.5	7.5	28
Local Seed	LC0877VT2P	132.4	—	—	34	0.0	14.9	7.7	29
Local Seed	LC1776VT2P	122.5	—	—	38	6.3	15.3	7.8	28
Armor	1447	116.1	187.3	—	41	21.6	15.6	7.7	31
Local Seed	LS1586TC	105.3	—	—	37	14.8	15.6	8.0	29
DeKalb	DKC62-08	104.6	179.3	180.8	35	22.2	15.7	7.7	33
Mean		165.7							
CV		11.5							
LSD (0.05)		26.7							
R^2		60.0							
Error DF		189							

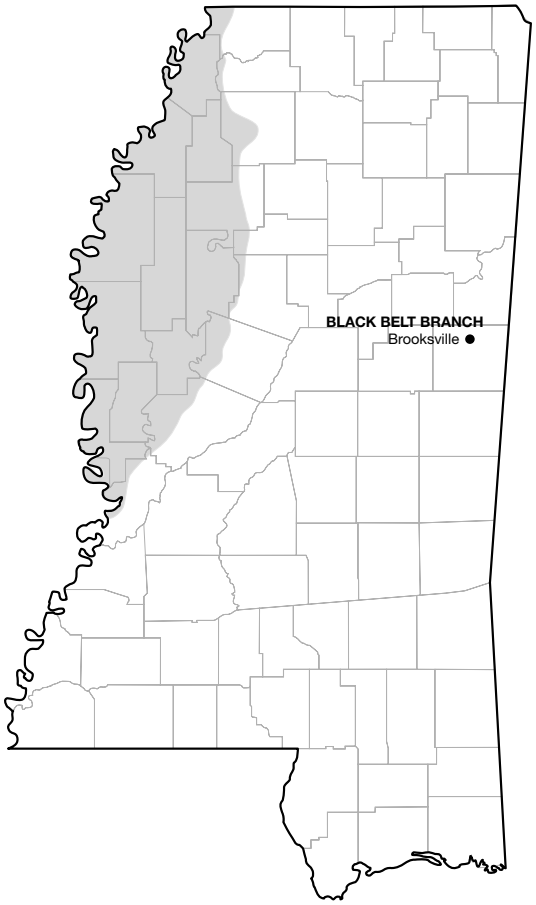
[1]Hybrid followed by an asterisk indicates an experimental entry.

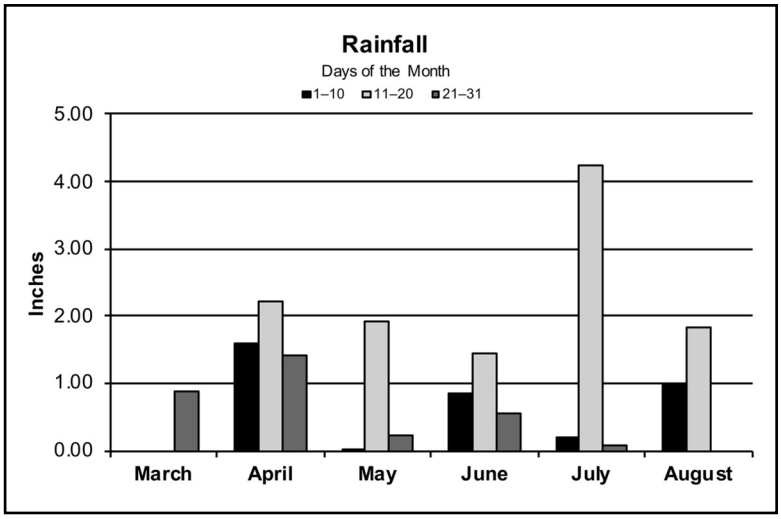
MAFES BLACK BELT BRANCH, BROOKSVILLE

Crop Summary

Corn plots were planted into a stale seedbed that had been prepared the previous fall. Soil moisture at planting was adequate for germination, and all plots emerged to a stand. A timely postemergence herbicide application was sufficient to provide good weed control throughout the season. Early planting and a few timely rains allowed for good yields at a dryland location. Harvest was completed in a timely manner without difficulty.

Soil type . . . . . Brooksville silty clay
Soil pH 6.4
Soil fertility . . . . . P=M, K=M
Fertilizer . . . . . Preplant — 10-26-26 @ 260 lb/A (fall applied)
Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on March 26
Topdress — N @ 46 lb/A (46-0-0) on March 26; and N @ 130 lb/A (46-0-0) on May 15
Herbicide . . . . . Postemergence — Roundup PowerMAX @ 32 oz/A, Atrazine @ 32 oz/A, and Callisto @ 3 oz/A on May 15
Previous crop . . . Wheat
Planting date . . . . March 26
Harvest date . . . . August 15





Rainfall Summary

	Inches
March	0.88
April	0.49
May	2.18
June	2.84
July	4.52
August	2.83
Total	13.74

Table 9. Results from 64 corn hybrids grown without irrigation on a Brooksville silty clay soil at the MAFES Black Belt Branch, Brooksville, 2018.

Brand name	Hybrid[1]	2018 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*
Mission Seeds	MEX1508DGVT2P *	203.8	—	—	50	0.0	17.2	8.6	36
Progeny Ag.	PGY 8116SS	203.0	192.1	—	41	0.0	17.4	8.4	35
DeKalb	DKC62-08	201.3	200.3	168.3	38	0.0	16.9	8.6	33
DeKalb	DKC70-27	201.0	184.9	156.1	49	0.0	16.4	8.4	34
DeKalb	DKC68-26	199.8	191.5	176.6	37	0.0	16.5	8.5	34
Progeny Ag.	PGY 5115VT2P	199.8	184.1	170.5	44	0.0	16.9	8.3	38
DeKalb	DKC67-44	199.8	185.7	161.4	37	0.0	16.5	8.3	35
DeKalb	DKC65-95	198.8	182.8	—	47	0.0	16.6	9.3	33
AgriGold	A6572VT2RIB	198.0	175.7	156.5	48	0.0	18.5	8.4	35
Dyna Gro	CX17117 *	197.8	—	—	47	0.0	19.8	8.6	29
Terral Seed	REV 27BHR79 *	197.5	—	—	42	3.7	18.6	9.5	31
AgriGold	A647-90VT2RIB	195.8	—	—	42	0.0	18.4	8.6	33
AgriGold	A6711VT2PRO	195.3	185.7	155.3	42	0.0	15.3	8.5	32
Dyna-Gro	D58VC65	195.3	189.1	—	39	0.0	14.5	8.4	32
Progeny Ag.	PGY 6119VT2P	193.5	186.9	166.5	41	0.0	20.1	8.9	30
DeKalb	DKC69-16	192.3	—	—	40	0.0	18.9	8.1	33
Mission Seeds	A1857SS	190.5	—	—	48	0.0	18.1	8.5	35
DeKalb	DKC68-69	189.8	—	—	37	0.0	20.5	8.5	30
Augusta	A1165 *	186.3	—	—	44	0.0	19.1	8.6	33
Progeny Ag.	PGY EXP1814 *	185.5	—	—	39	0.0	16.3	8.1	34
Armor	1667	184.8	176.6	—	42	0.0	18.6	8.7	29
DeKalb	DKC64-35	184.5	175.6	159.7	32	0.0	18.2	8.2	35
MorCorn	MC4725	184.5	168.8	—	44	0.0	17.9	8.4	28
Progeny Ag.	PGY EXP1817 *	184.5	—	—	43	0.0	18.0	8.6	34
Local Seed	LS1586TC	184.3	—	—	42	0.0	17.3	8.3	28
Croplan	5678	183.8	—	—	39	0.0	16.9	8.1	29
Terral Seed	REV 24BHR99 *	183.5	—	—	45	0.0	17.7	9.2	29
Armor	X8117 *	182.0	—	—	41	0.0	17.2	8.2	31
MorCorn	MC 4457	182.0	—	—	39	0.0	17.5	8.2	28
AgriGold	A6659VT2RIB	181.8	179.6	162.2	48	0.0	17.0	8.4	35
Dyna-Gro	D55VC45	181.0	170.0	—	42	0.0	17.9	8.5	28
DeKalb	DKC66-75	180.3	180.5	154.6	44	1.7	17.3	8.6	33
Armor	X8118 *	179.8	—	—	43	0.0	18.0	8.6	31
AgriGold	A645-10VT2RIB	179.3	171.7	—	38	0.0	19.1	8.3	28
Terral Seed	REV 28BHR18	179.3	170.9	—	54	0.0	18.9	9.4	30
Local Seed	LC1878VT2P	177.5	—	—	48	0.0	18.0	8.4	31
Augusta	A1367 *	177.5	—	—	39	0.0	17.6	9.0	32
Local Seed	LC1987VT2P	177.3	—	—	40	0.0	20.1	8.8	27
Local Seed	LC0877VT2P	176.5	—	—	38	0.0	15.3	8.2	29
Augusta	A5464 *	176.3	—	—	40	0.0	16.0	8.5	32
MorCorn	MC4319	175.8	169.5	—	40	0.0	18.3	8.6	26
Local Seed	RL8430VYHR	175.8	—	—	42	0.0	16.2	9.0	29
Progeny Ag.	PGY 6116VT2P	175.3	181.3	164.4	44	0.0	17.7	8.3	33
Dyna Gro	D57VC51	175.0	—	—	37	0.0	17.9	8.5	29
Armor	1887	174.5	168.8	—	41	0.0	17.7	8.3	33
Dyna Gro	D54VC14	174.0	—	—	37	0.0	16.9	8.2	28
Armor	1447	173.3	177.1	—	52	0.0	18.1	8.6	31
Augusta	A8868	171.8	—	—	44	0.0	17.5	9.0	33
Terral Seed	REV 25R27	170.3	—	—	50	0.0	16.3	9.2	29
Local Seed	LC1577VT2P	170.0	—	—	39	0.0	18.3	7.8	28
Augusta	A4465 *	168.5	—	—	38	0.0	17.5	8.7	31
Terral Seed	REV 23BHR55	168.0	169.3	143.6	43	0.0	15.7	8.6	33
Local Seed	AV8614VYHR	166.8	—	—	50	0.0	18.7	9.2	28
AgriGold	A6544VT2RIB	165.3	169.8	154.6	45	0.0	17.4	8.6	34
Terral Seed	REV 25BHR26	165.0	171.7	143.6	51	0.0	16.8	9.1	30
Terral Seed	REV 25BHR89 *	164.0	—	—	49	0.0	17.0	9.2	29
Pioneer	P0805AM	164.0	—	—	39	0.0	15.9	9.1	29
Progeny Ag.	PGY 7111VT2P	163.5	158.0	—	45	0.0	18.1	8.2	36
Progeny Ag.	PGY 7118VT2P	161.5	—	—	50	0.0	17.7	8.9	32
Augusta	A4463 *	161.3	—	—	43	0.0	15.9	8.5	33
Terral Seed	REV 2616PWE	158.8	166.9	—	41	0.0	19.0	8.5	32
Augusta	A5065	157.0	—	—	43	0.0	16.6	8.9	31
Local Seed	LC1776VT2P	152.8	—	—	40	0.0	18.4	8.5	24
Progeny Ag.	PGY 6110VT2P	137.0	129.4	—	42	0.0	16.2	8.4	34
Mean		180.2							
CV		9.2							
LSD (0.05)		23.1							
R^2		61.2							
Error DF		189							

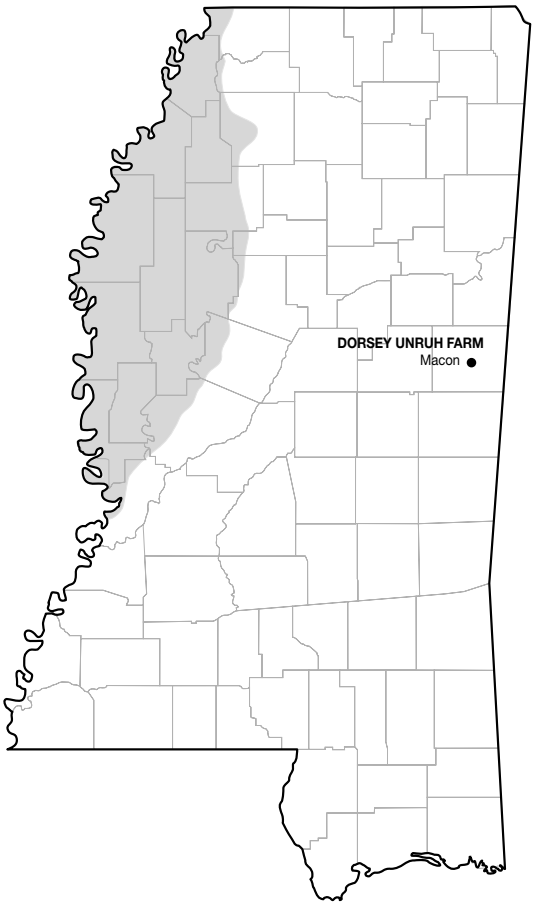
[1]Hybrid followed by an asterisk indicates an experimental entry.

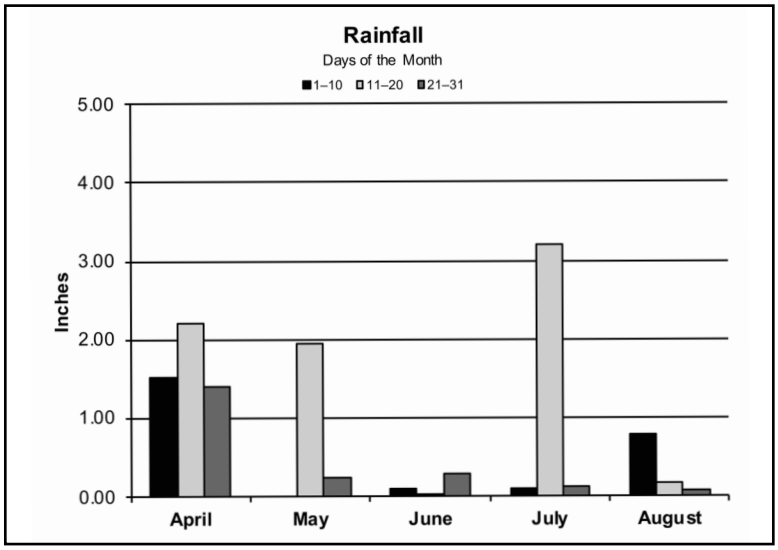
DORSEY UNRUH FARM, MACON

Crop Summary

Corn plots were planted in early April into a stale seedbed that had been prepared the previous fall. Soil moisture at planting was optimum for germination. All plots emerged to a good stand. The growing season was very dry beginning in mid-May and continuing through harvest. Timely irrigation was able to supply adequate soil moisture to allow for good yields. Harvest was completed in a timely manner.

Soil type . . . . . **Vaiden silty clay**
Soil pH **6.7**
Soil fertility . . . . . **P=H⁺, K=H**
Fertilizer . . . . . **Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on April 6**
Sidedress — N @ 210 lb/A (32%) on May 12
Herbicide . . . . . **Preemergence — Gramoxone @ 32 oz/A and Zidua @ 2 oz/A on April 6**
Postemergence — Resicore @ 3 qt/A, Atrazine @ 1 qt/A, and Roundup PowerMAX @ 22 oz/A on May 13
Fungicide . . . . . **Trevo TRZ @ 12.8 oz/A on June 19**
Previous crop . . . . **Soybeans**
Planting date . . . . **April 6**
Harvest date . . . . . **August 28**
Irrigation . . . . . **Center-pivot irrigation on May 14 (0.5"), June 4 (1"), June 9 (1"), June 16 (1"), June 24 (1"), July 1 (1"), July 3 (0.5"), July 10 (1"), and July 29 (1")**





Rainfall Summary

	Inches
April	5.13
May	2.18
June	0.42
July	3.41
August	1.04
Total	12.18

Table 10. Results from 72 corn hybrids grown with center-pivot irrigation on a Vaiden silty clay soil near Macon, Noxubee County, 2018.

Brand name	Hybrid[1]	2018 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*
Progeny Ag	PGY EXP1817 *	260.1	—	—	41	—	16.0	9.3	35
MorCorn	MC4725	256.6	266.0	—	48	3.4	16.4	6.9	34
AgriGold	A6659VT2RIB	254.9	256.6	247.8	48	—	15.1	9.1	31
Mission Seeds	MEX 1508DGVT2P *	253.4	—	—	51	—	16.1	9.2	34
AgriGold	A6544VT2RIB	249.9	252.4	249.2	47	—	15.2	9.2	33
Local Seed	AV8614VYHR	248.4	—	—	51	—	16.3	9.9	35
DeKalb	DKC64-35	247.6	243.7	246.4	41	—	15.9	9.3	35
DeKalb	DKC70-27	247.3	257.4	254.3	47	—	17.4	9.1	32
AgriGold	A6572VT2RIB	246.9	248.7	241.7	44	—	16.6	9.5	28
Dyna-Gro	D58VC65	246.2	259.5	—	46	—	17.4	9.2	34
Dyna Gro	D57VC51	244.8	—	—	44	—	16.4	9.2	33
DeKalb	DKC65-95	244.4	246.8	—	40	—	17.0	9.0	28
Augusta	A1165	243.1	—	—	46	—	16.1	9.4	31
AgriGold	A6711VT2PRO	242.2	258.6	254.9	47	—	15.8	9.2	28
Mission Seeds	A1857SS	241.8	—	—	55	—	17.0	8.9	37
Croplan	5678	240.8	255.5	252.1	44	—	15.9	8.6	35
Terral Seed	REV 27BHR79	238.7	—	—	47	—	17.0	9.2	32
DeKalb	DKC66-75	238.7	255.2	254.0	39	—	15.6	6.7	24
Progeny Ag	PGY 6119VT2P	237.5	253.2	240.3	43	—	17.9	9.4	31
AgriGold	A647-90VT2RIB	237.4	—	—	46	3.5	17.1	9.4	33
Great Heart Seed	HT-7425DGVT2P	237.2	—	—	52	—	16.2	9.5	34
Progeny Ag.	PGY 6116VT2P	236.1	251.5	245.2	51	—	16.3	9.1	33
Great Heart Seed	HT-7381VT2P	235.1	237.7	—	49	—	17.1	8.8	38
DeKalb	DKC67-44	234.5	243.4	248.9	43	—	16.7	9.1	34
Terral Seed	REV 23BHR55	234.4	246.8	234.5	49	—	15.3	9.6	34
Progeny Ag	PGY 8116SS	233.2	249.7	—	50	—	16.7	8.9	34
Dyna Gro	CX17117 *	233.0	—	—	44	—	16.7	9.3	30
Dyna Gro	D54VC14	232.8	—	—	42	—	16.7	9.1	31
DeKalb	DKC68-26	232.6	252.4	253.1	41	—	15.7	8.9	24
DeKalb	DKC68-69	232.5	—	—	40	—	18.0	9.2	25
MorCorn	MC4319	232.2	240.1	—	46	—	17.0	9.1	29
DeKalb	DKC62-08	231.0	241.6	236.9	46	—	15.3	8.8	27
Terral Seed	REV 24BHR99	230.8	—	—	46	—	15.9	9.6	31
Local Seed	LS1586TC	230.8	—	—	49	1.9	16.2	9.2	31
Dyna-Gro	D55VC45	230.7	236.7	—	45	—	17.8	9.2	33
Terral Seed	REV 28BHR18	230.5	237.9	—	50	—	17.7	9.6	26
Terral Seed	REV 2616PWE	230.1	246.2	—	48	—	16.0	10.0	32
Great Heart Seed	HT-7676VT2P	229.9	—	—	50	—	17.2	9.5	34
Augusta	A7768	229.9	253.7	250.9	50	—	18.1	9.5	28
Armor	1667	228.7	243.6	—	47	—	16.7	9.4	28
AgriGold	A645-10VT2RIB	227.8	234.4	—	45	—	17.0	9.2	28
Armor	1887	227.5	239.1	—	48	—	16.8	7.4	31
Armor	1447	227.5	245.0	—	40	—	15.7	8.6	33
Great Heart Seed	HT-7302VT2P	225.7	245.2	—	45	—	15.6	8.9	33
Terral Seed	REV 25BHR26	225.7	244.7	238.5	48	—	15.6	9.7	23
Terral Seed	REV 25BHR89	225.1	—	—	48	—	16.2	9.8	33
NK Seeds	NK1573-3110	225.0	239.5	—	39	—	15.8	9.4	27
Local Seed	LC0877VT2P	224.6	—	—	44	—	14.5	9.3	33
Great Heart Seed	HT-7486SS	222.4	242.9	—	49	—	16.6	9.0	37
Progeny Ag.	PGY 5115VT2P	222.3	243.7	245.7	42	—	15.7	8.7	36
NK Seeds	NK1584-3000GT	222.2	—	—	48	—	18.0	10.5	28
Local Seed	RL8430VYHR	221.7	—	—	47	—	14.9	9.8	32
AgriGold	A646-12STX	221.6	—	—	50	—	16.2	9.3	31
Pioneer	P2089VYHR	221.0	248.3	250.8	45	—	16.7	7.6	30
Augusta	A1367	220.7	—	—	47	—	16.3	7.8	28
Augusta	A4463	220.6	—	—	45	—	15.2	8.9	38
DeKalb	DKC69-16	220.0	—	—	45	—	15.9	9.0	29
Augusta	A8868	218.8	246.9	236.5	48	—	16.3	9.8	27
Progeny Ag	PGY EXP1814 *	218.8	—	—	42	—	15.7	8.5	31
Terral Seed	REV 25R27	217.1	—	—	47	—	15.7	9.2	30
Local Seed	LC1987VT2P	216.4	—	—	46	—	17.7	9.1	34
Local Seed	LC1776VT2P	216.4	—	—	44	—	17.1	9.2	31
Local Seed	LC1878VT2P	215.9	—	—	50	—	16.9	9.2	25
Great Heart Seed	HT-7244VT2P	215.1	—	—	51	—	16.3	8.5	34
Augusta	A5065	212.5	229.4	—	48	—	16.6	9.7	34
Augusta	A4465	211.2	—	—	42	—	16.2	9.2	33

Continued.

Table 10 (continued). Results from 72 corn hybrids grown with center-pivot irrigation on a Vaiden silty clay soil near Macon, Noxubee County, 2018.

Brand name	Hybrid[1]	2018 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*
Armor	X8117 *	210.5	—	—	47	—	16.1	8.8	33
Armor	X8118 *	210.1	—	—	45	—	17.0	9.0	32
Local Seed	LC1577VT2P	207.4	—	—	39	—	16.6	8.6	31
Augusta	A5464	204.5	—	—	42	—	15.9	6.7	31
MorCorn	MC4457	203.1	—	—	40	—	15.8	9.2	26
Mission Seeds	MEX 1308VT2P *	195.7	—	—	41	14	15.5	8.8	29
Mean			229.7						
CV			7.4						
LSD (0.05)			23.7						
R^2			51.3						
Error DF			213						

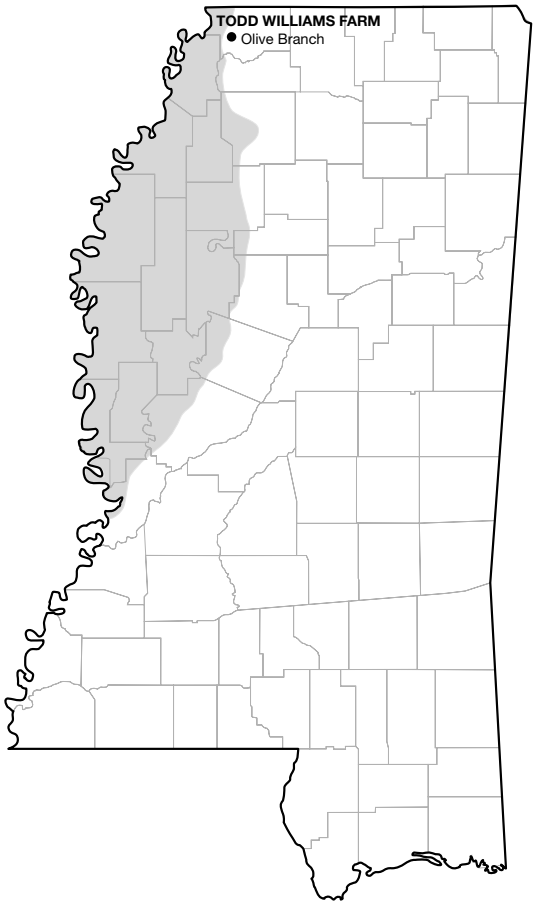
[1]Hybrid followed by an asterisk indicates an experimental entry.

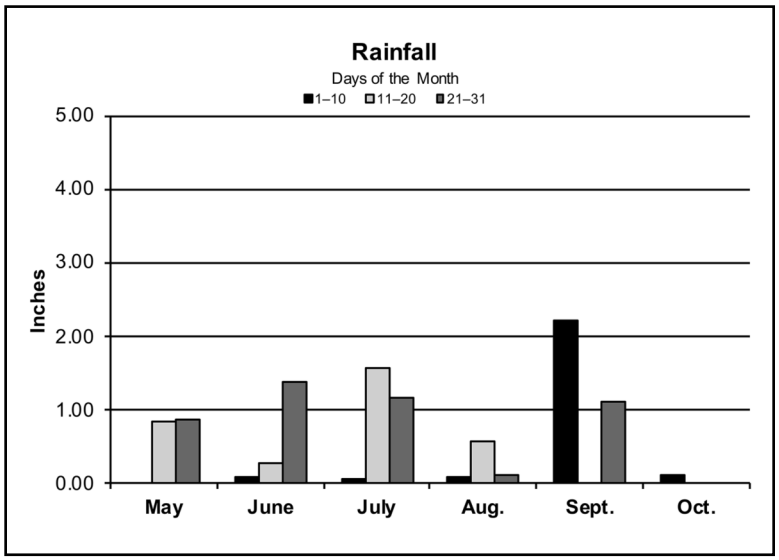
TODD WILLIAMS FARM, OLIVE BRANCH

Crop Summary

April rainfall delayed planting until early May into a flat seedbed that was freshly tilled and do-alled. Soil moisture at planting was excellent for germination. All plots emerged to a stand. Limited but timely rains throughout the growing season allowed for good yields to be observed at this location. Harvest was completed without difficulties.

Soil type . . . . . Collins silt loam
Soil pH 5.8
Soil fertility . . . . . P=H, K=H
Fertilizer . . . . . Preplant —70-30-120-10S-1B
Starter — 10-20-5-1S-0.43Zn @ 18 gal/A (applied 2x2) on May 3
Topdress — N @ 120 lb/A (urea + Agritain)
Herbicide . . . . . Preemergence — Atrazine @ 1 qt/A and Dual II Magnum at 1 qt/A
Postemergence — Glyphosate @ 1 qt/A, Atrazine @ 1.2 qt/A, Dual II Magnum at 1 pt/A, and Mesotrione @ 3.2 oz/A
Previous crop . . . Soybeans
Planting date . . . May 3
Harvest date . . . . October 9





Rainfall Summary

	Inches
May	1.71
June	1.76
July	2.81
August	0.79
September	3.32
October	0.12
Total	10.51

Table 11. Results from 64 corn hybrids grown without irrigation on a Collins silt loam soil near Olive Branch, DeSoto County, 2018.

Brand name	Hybrid[1]	2018 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*
Croplan	5678	290.3	—	—	45	2.0	12.7	10.0	36
AgriGold	A6711VT2PRO	281.5	253.5	203.5	55	1.8	13.2	10.6	34
AgriGold	A6572VT2RIB	271.2	236.1	203.2	41	1.6	13.3	10.3	34
Progeny Ag.	PGY 5115VT2P	266.3	243.6	191.0	49	1.7	13.8	10.1	36
Mission Seeds	A1857SS	263.9	—	—	54	1.7	13.4	10.1	37
Progeny Ag.	PGY 8116SS	262.0	240.3	—	42	1.9	13.9	10.1	37
Terral Seed	REV 24BHR99 *	261.5	—	—	55	2.0	13.8	10.6	32
Dyna-Gro	D58VC65	260.6	248.2	—	44	1.8	13.2	10.0	31
DeKalb	DKC64-35	260.4	254.3	203.2	43	1.7	13.4	10.2	36
Progeny Ag.	PGY EXP1814 *	260.0	—	—	45	3.6	13.7	9.8	35
Mission Seeds	MEX1508DGVT2P *	259.7	—	—	46	1.6	13.5	10.0	33
DeKalb	DKC66-75	259.6	257.6	206.9	48	1.8	13.5	10.2	34
AgriGold	A6659VT2RIB	258.5	244.9	190.2	54	1.9	13.1	9.5	30
DeKalb	DKC68-69	255.4	—	—	50	1.8	14.0	10.1	33
DeKalb	DKC67-44	255.2	251.6	212.4	47	1.6	13.9	10.5	34
Terral Seed	REV 27BHR79 *	252.3	—	—	52	1.9	13.9	11.3	32
Local Seed	AV8614VYHR	251.9	—	—	42	1.9	13.8	10.7	31
Progeny Ag.	PGY 6116VT2P	250.4	245.5	198.3	42	1.9	13.4	10.1	34
DeKalb	DKC62-08	248.2	241.9	199.3	45	1.7	13.9	10.1	34
Progeny Ag.	PGY 6119VT2P	247.1	244.1	196.7	45	1.9	13.4	9.9	34
Dyna Gro	CX17117 *	243.1	—	—	53	1.9	13.8	10.2	30
Armor	1447	242.7	245.2	—	49	1.9	12.9	9.7	30
AgriGold	A6544VT2RIB	239.7	242.7	198.4	50	1.8	13.9	10.4	33
Augusta	A4463 *	239.4	—	—	47	1.8	13.1	10.6	33
Armor	1667	238.6	233.8	—	46	2.0	13.9	10.4	33
Progeny Ag.	PGY EXP1817 *	238.1	—	—	54	1.9	13.2	10.3	34
MorCorn	MC4319	237.1	222.1	—	46	2.1	13.7	10.3	29
AgriGold	A645-10VT2RIB	236.5	214.8	—	55	2.0	13.9	10.4	35
DeKalb	DKC65-95	236.4	223.1	—	47	1.9	12.8	10.3	32
Dyna Gro	D57VC51	236.3	—	—	40	2.0	13.7	9.5	30
DeKalb	DKC70-27	235.3	225.5	184.3	45	1.8	13.9	10.1	35
Local Seed	LS1586TC	235.3	—	—	47	2.1	13.7	10.1	29
Augusta	A1165 *	235.1	—	—	50	1.9	13.2	10.1	32
AgriGold	A647-90VT2RIB	234.8	—	—	53	1.8	13.8	10.4	34
Armor	X8117 *	234.8	—	—	42	1.9	13.7	9.4	31
Terral Seed	REV 28BHR18	234.1	229.4	—	56	1.9	14.9	10.7	32
DeKalb	DKC69-16	231.7	—	—	40	1.8	13.8	10.0	34
Augusta	A1367 *	230.6	—	—	46	1.8	13.8	11.3	32
MorCorn	MC 4457	230.1	—	—	45	2.2	13.8	9.8	29
Armor	1887	228.6	225.9	—	52	1.7	13.9	10.3	31
Armor	X8118 *	226.1	—	—	43	1.9	13.7	10.1	32
DeKalb	DKC68-26	225.6	232.8	184.6	40	1.8	13.6	10.3	34
Dyna-Gro	D55VC45	225.0	218.2	—	52	1.9	13.6	9.9	29
Augusta	A4465 *	224.2	—	—	48	5.6	14.1	10.3	32
Dyna Gro	D54VC14	224.0	—	—	53	4.3	13.5	9.7	26
Augusta	A5464 *	223.3	—	—	47	3.7	14.3	10.8	34
Local Seed	LC1577VT2P	223.1	—	—	47	2.1	13.7	9.3	29
Pioneer	P0805AM	221.2	—	—	43	2.2	13.8	10.3	30
MorCorn	MC4725	220.7	214.5	—	40	2.0	13.6	10.5	28
Progeny Ag.	PGY 7118VT2P	219.9	—	—	57	1.9	13.5	10.9	32
Terral Seed	REV 23BHR55	219.7	219.9	179.7	46	1.7	13.4	10.4	31
Terral Seed	REV 25BHR26	217.3	217.4	181.0	49	1.9	14.1	10.6	32
Local Seed	LC1878VT2P	215.1	—	—	40	2.1	14.6	10.1	32
Augusta	A5065	213.2	—	—	50	2.0	14.4	10.1	31
Progeny Ag.	PGY 7111VT2P	210.5	213.5	—	56	1.6	12.9	9.8	33
Local Seed	LC1987VT2P	207.7	—	—	44	2.0	13.3	10.1	29
Terral Seed	REV 2616PWE	207.0	204.7	—	44	1.9	13.4	10.7	33
Local Seed	LC0877VT2P	204.8	—	—	53	6.7	13.4	9.6	29
Augusta	A8868	203.0	—	—	55	1.9	13.4	11.3	31
Terral Seed	REV 25BHR89 *	202.6	—	—	54	1.9	14.5	10.9	31
Local Seed	RL8430VYHR	201.1	—	—	57	2.0	13.5	10.5	30
Local Seed	LC1776VT2P	190.7	—	—	46	2.5	13.6	10.1	25
Terral Seed	REV 25R27	189.7	—	—	44	2.0	14.5	10.5	29
Progeny Ag.	PGY 6110VT2P	185.2	193.0	—	40	2.0	14.0	10.2	34
Mean		234.9							
CV		10.3							
LSD (0.05)		33.6							
R^2		54.1							
Error DF		189							

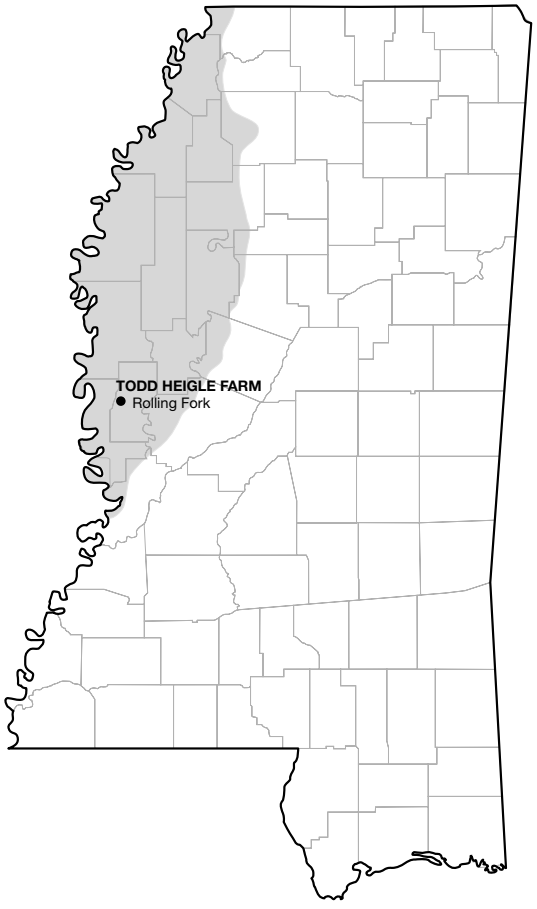
[1]Hybrid followed by an asterisk indicates an experimental entry.

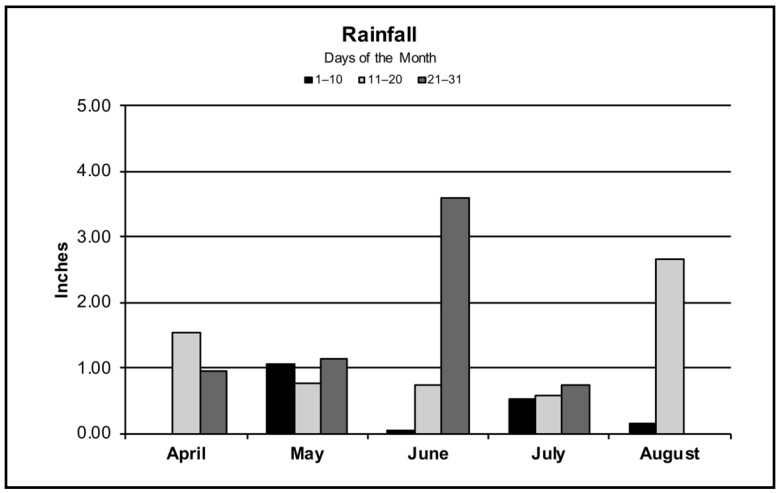
TODD HEIGLE FARM, ROLLING FORK (IRRIGATED)

Crop Summary

Corn plots were planted into a stale, raised seedbed that was prepared the previous fall. Soil moisture at planting was adequate for germination. All plots emerged to a good stand. Timely rainfall and irrigation supplied soil moisture throughout the season. Good yields were observed at this location. Harvest was completed in a timely manner.

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 April 12
Topdress — N @ 240 lb/A (46-0-0), applied as a split application
Herbicide . . . . . Preemergence — Roundup PowerMAX @ 32 oz/A and Zidua @ 2 oz/A on April 12
Postemergence — Capreno @ 3 oz/A, Roundup PowerMAX @ 32 oz/A, and Atrazine @ 48 oz/A
Previous crop . . . Corn
Planting date . . . April 12
Harvest date . . . . August 23
Irrigation . . . . . Furrow irrigated as needed





Rainfall Summary

	Inches
April	2.50
May	2.96
June	4.37
July	1.88
August	2.80
Total	14.51

Table 12. Results from 72 corn hybrids grown with furrow irrigation on a Commerce silty clay loam soil near Rolling Fork, 2018.

Brand name	Hybrid[1]	2018 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*
Progeny Ag	PGY EXP1817 *	248.7	—	—	41	1.8	17.2	7.7	32
Terral Seed	REV 27BHR79	243.1	—	—	44	1.6	18.2	8.6	36
Terral Seed	REV 28BHR18	242.6	255.4	—	33	1.8	19.1	8.0	33
Terral Seed	REV 23BHR55	241.3	267.2	253.0	47	6.5	16.4	8.6	27
Augusta	A1367	240.2	—	—	45	9.8	18.2	9.2	30
MorCorn	MC4725	237.2	261.7	—	39	1.8	17.0	8.4	33
Local Seed	AV8614VYHR	236.9	—	—	40	3.4	17.5	9.5	34
Local Seed	RL8430VYHR	236.2	—	—	45	2.2	15.7	9.4	27
AgriGold	A6659VT2RIB	236.1	259.1	246.3	45	1.8	17.1	8.9	33
DeKalb	DKC67-44	235.6	247.6	237.9	44	1.7	17.8	8.6	35
DeKalb	DKC68-26	234.7	255.2	247.5	38	1.7	16.9	8.6	35
Terral Seed	REV 25BHR26	234.4	259.8	244.3	50	1.9	16.9	8.9	31
AgriGold	A6572VT2RIB	232.3	236.2	224.5	43	5.1	16.9	8.5	34
Local Seed	LS1586TC	231.9	—	—	44	1.9	17.2	8.7	30
Augusta	A1165	231.4	—	—	44	1.8	17.3	8.2	33
DeKalb	DKC66-75	230.0	247.4	235.0	35	1.9	17.2	8.1	31
Croplan	5678	229.5	251.5	238.2	42	1.6	16.7	7.7	37
Pioneer	P2089VYHR	229.5	260.7	254.8	47	7.8	18.2	9.2	37
Terral Seed	REV 25BHR89	228.0	—	—	42	8.0	17.6	8.9	29
Great Heart Seed	HT-7425DGVT2P	228.0	—	—	30	1.7	17.2	7.2	35
Dyna-Gro	D58VC65	228.0	248.5	—	44	1.8	16.6	8.0	33
Local Seed	LC1776VT2P	227.7	—	—	41	1.8	17.0	8.5	32
AgriGold	A6544VT2RIB	227.2	241.4	235.1	47	1.7	16.7	8.7	34
Armor	X8118 *	227.1	—	—	47	1.5	17.4	8.2	38
DeKalb	DKC70-27	226.8	255.4	243.9	43	1.9	18.2	7.7	31
DeKalb	DKC65-95	226.7	245.4	—	36	1.8	18.3	7.7	33
Dyna Gro	D57VC51	226.7	—	—	39	1.9	16.7	8.4	31
Great Heart Seed	HT-7676VT2P	226.1	—	—	43	3.3	17.8	8.4	35
Progeny Ag	PGY 6119VT2P	225.6	247.3	225.6	43	1.9	18.0	8.7	31
Progeny Ag.	PGY 6116VT2P	225.4	249.9	237.3	44	1.6	16.9	7.9	37
Augusta	A4463	225.3	—	—	48	1.7	16.0	8.0	34
AgriGold	A646-12STX	224.9	—	—	50	19.0	17.4	8.9	34
Terral Seed	REV 24BHR99	224.7	—	—	43	1.9	16.6	8.5	31
AgriGold	A6711VT2PRO	224.0	239.7	232.9	35	1.7	17.1	7.3	35
Progeny Ag	PGY 8116SS	223.9	242.6	—	42	1.8	17.6	8.7	33
DeKalb	DKC68-69	223.7	—	—	39	1.9	18.5	8.3	31
Augusta	A5065	223.6	251.7	—	40	2.0	18.0	8.5	30
DeKalb	DKC62-08	222.4	250.9	238.2	39	1.7	16.0	6.8	35
Dyna Gro	CX17117 *	222.2	—	—	51	9.4	17.2	8.2	31
Armor	1447	221.4	240.1	—	43	1.8	15.6	7.5	32
DeKalb	DKC69-16	221.1	—	—	42	1.7	16.8	8.0	34
Armor	X8117 *	220.7	—	—	41	1.6	16.4	7.8	37
Augusta	A7768	218.3	249.1	241.4	53	36.7	20.0	9.2	35
DeKalb	DKC64-35	217.8	235.1	231.0	43	1.5	16.8	8.8	39
MorCorn	MC4319	214.7	233.9	—	45	2.1	17.3	8.8	28
AgriGold	A645-10VT2RIB	212.9	231.5	—	44	1.8	17.5	9.2	33
Terral Seed	REV 25R27	212.0	—	—	45	1.8	16.8	9.1	33
MorCorn	MC 4457	211.3	—	—	40	2.0	16.4	7.8	28
Dyna-Gro	D55VC45	211.0	227.6	—	40	1.8	16.0	8.3	33
Local Seed	LC1878VT2P	210.4	—	—	40	5.2	17.2	7.2	34
Augusta	A8868	209.7	250.2	239.2	52	2.0	17.3	8.3	28
AgriGold	A647-90VT2RIB	209.0	—	—	45	1.9	17.8	9.0	31
Armor	1887	208.8	230.2	—	45	1.8	17.5	8.2	32
NK Seeds	NK1584-3000GT	207.2	—	—	48	8.2	17.9	8.1	35
Dyna Gro	D54VC14	206.5	—	—	35	1.6	16.3	8.4	35
Great Heart Seed	HT-7302VT2P	205.8	243.6	—	37	1.7	16.8	8.6	34
Progeny Ag	PGY EXP1814 *	205.8	—	—	35	1.7	16.6	7.7	35
Mission Seeds	A1857SS	204.9	—	—	50	1.9	17.5	8.5	31
Terral Seed	REV 2616PWE	204.5	240.1	—	44	5.5	18.1	8.1	32
Local Seed	LC1987VT2P	204.0	—	—	39	1.8	18.2	8.9	32
NK Seeds	NK1573-3110	202.9	231.7	—	36	1.9	16.8	7.9	31
Great Heart Seed	HT-7244VT2P	201.0	—	—	37	1.6	16.5	7.8	35
Augusta	A4465	199.9	—	—	35	1.8	17.2	8.3	32
Local Seed	LC0877VT2P	197.9	—	—	44	1.7	15.3	8.9	34
Armor	1667	195.8	227.1	—	41	1.9	17.5	8.0	31
Great Heart Seed	HT-7486SS	194.6	234.0	—	44	1.7	17.3	7.7	35

Continued

Table 12 (continued). Results from 72 corn hybrids grown with furrow irrigation on a Commerce silty clay loam soil near Rolling Fork, 2018.

Brand name	Hybrid[1]	2018 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*
Great Heart Seed	HT-7381VT2P	191.9	213.9	—	45	3.2	17.6	9.0	37
Augusta	A5464	190.6	—	—	37	29.5	15.8	9.0	35
Mission Seeds	MEX 1508DGVT2P *	183.4	—	—	48	2.0	17.0	8.9	29
Local Seed	LC1577VT2P	182.9	—	—	45	1.7	16.6	8.0	34
Mission Seeds	MEX 1308VT2P *	182.7	—	—	42	1.9	16.6	7.3	30
Progeny Ag.	PGY 5115VT2P	170.3	213.0	222.3	43	3.5	16.7	8.6	33
Mean		218.4							
CV		9.5							
LSD (0.05)		28.8							
R^2		48.0							
Error DF		213							

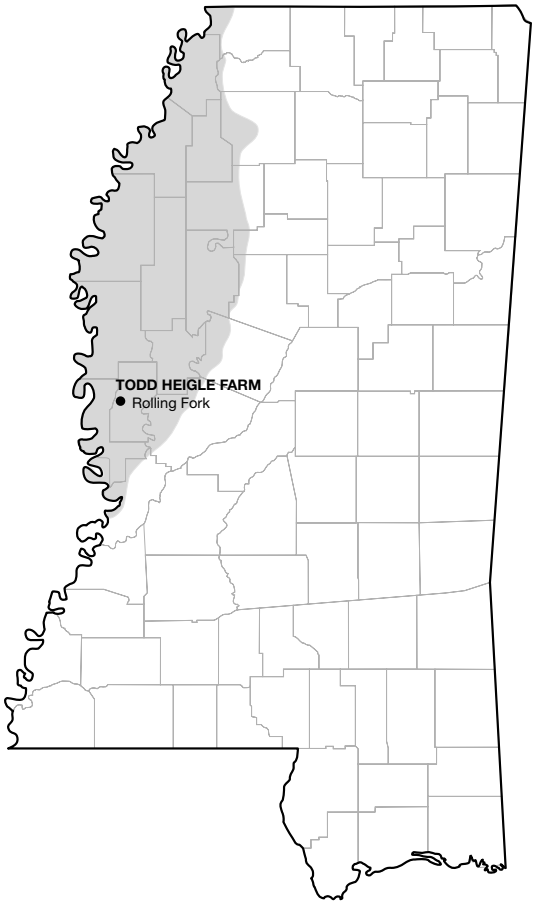
[1]Hybrid followed by an asterisk indicates an experimental entry.

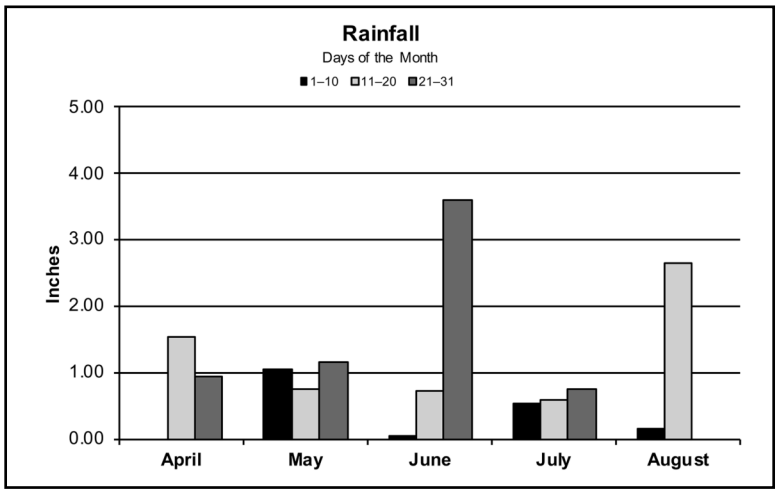
TODD HEIGLE FARM, ROLLING FORK (NOT IRRIGATED)

Crop Summary

Corn plots were planted into a stale, raised seedbed that was prepared the previous fall. Soil moisture at planting was adequate for germination. All plots emerged to a good stand. Timely rainfall supplied soil moisture throughout the season. Good yields were observed at this location. Harvest was completed in a timely manner.

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 April 12
Topdress — N @ 240 lb/A (46-0-0), applied as a split application
Herbicide . . . . . Preemergence — Gramoxone @ 32 oz/A and Zidua @ 2 oz/A on April 12
Postemergence — Capreno @ 3 oz/A, Roundup PowerMAX @ 32 oz/A, and Atrazine @ 48 oz/A
Previous crop . . . Soybeans
Planting date . . . . April 12
Harvest date . . . . August 23





Rainfall Summary

	Inches
April	2.50
May	2.96
June	4.37
July	1.88
August	2.80
Total	14.51

Table 13. Results from 64 corn hybrids grown without irrigation on a Commerce silty clay loam soil near Rolling Fork, 2018.

Brand name	Hybrid[1]	2018 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*
Augusta Seed	A1367	255.0	—	—	51	5.8	18.2	9.6	30
Mission Seeds	MEX 1508DGVT2P *	251.0	—	—	53	1.7	17.0	9.3	33
Terral Seed	27BHR79	250.0	—	—	50	2.0	18.2	9.8	30
Progeny Ag.	PGY 5115VT2P	249.7	—	—	48	1.6	17.3	9.2	37
Terral Seed	28BHR18	244.9	—	—	46	2.0	18.5	9.9	29
DeKalb	DKC66-75	241.5	—	—	44	1.8	17.2	8.9	33
AgriGold	A6544VT2RIB	241.5	—	—	40	1.9	15.6	9.3	31
DeKalb	DKC70-27	239.3	—	—	52	5.3	17.9	9.2	33
Local Seed	LS1586TC	238.6	—	—	45	2.1	17.3	9.3	28
Augusta Seed	A4463	238.6	—	—	53	1.9	16.4	9.1	31
Progeny Ag	PGY EXP1817 *	238.3	—	—	55	1.8	17.0	9.1	32
Terral Seed	23BHR55	237.0	—	—	47	2.0	16.2	9.2	29
DeKalb	DKC68-26	236.6	—	—	51	1.8	16.3	8.9	32
DeKalb	DKC67-44	235.4	—	—	46	1.9	17.8	9.2	31
AgriGold	A6559VT2RIB	235.2	—	—	50	1.9	17.1	9.2	31
Terral Seed	REV 2616PWE	235.0	—	—	56	1.9	17.2	9.7	31
Progeny Ag	PGY 8116SS	233.5	—	—	51	6.7	18.0	8.7	35
Dekalb	DKC65-95	230.4	—	—	51	1.8	17.8	9.0	32
Progeny Ag	PGY EXP1814	230.3	—	—	39	1.7	16.6	9.0	34
Croplan	5678	229.6	—	—	43	3.8	16.8	8.7	31
Terral Seed	24BHR99	228.9	—	—	40	2.1	16.6	9.2	27
Progeny Ag	PGY 7118VT2P	228.3	—	—	56	2.0	16.5	9.9	28
Mission Seeds	A1857SS	227.7	—	—	45	1.8	18.5	8.8	32
DeKalb	DKC64-35	227.0	—	—	52	1.7	16.8	8.9	34
DeKalb	DKC68-69	226.0	—	—	44	1.9	19.2	8.8	31
DeKalb	DKC62-08	225.2	—	—	48	5.3	15.5	8.3	33
Dyna Gro	D57VC51	225.1	—	—	48	4.0	16.5	8.8	29
Progeny Ag	PGY 7111VT2P	224.4	—	—	46	1.8	16.1	8.9	33
Armor	1447	223.6	—	—	45	2.1	16.6	8.6	27
Local Seed	RL8430VYHR	222.6	—	—	53	4.2	15.2	9.5	28
DeKalb	DKC69-16	222.5	—	—	46	3.5	17.3	8.8	33
Terral Seed	25BHR26	221.6	—	—	52	2.1	16.9	9.7	28
Local Seed	AV8614VYHR	221.6	—	—	48	2.2	17.2	9.3	26
Augusta	A5065	221.1	—	—	54	2.1	17.7	9.7	28
Augusta	A8868	219.9	—	—	50	1.9	16.4	9.6	30
Progeny Ag	PGY 6119VT2P	219.3	—	—	50	1.9	17.6	9.0	31
Progeny Ag.	PGY 6116VT2P	218.9	—	—	49	1.9	17.0	9.0	31
Augusta Seed	A4465	217.5	—	—	44	2.0	16.9	9.3	29
AgriGold	A647-90VT2RIB	214.7	—	—	48	1.9	18.0	9.5	30
Armor	X8118 *	214.3	—	—	51	1.9	17.1	9.3	30
Terral Seed	25R27	213.3	—	—	49	10.8	16.8	9.4	27
Local Seed	LC1878VT2P	213.1	—	—	49	2.0	17.9	8.9	29
MorCorn	MC4319	212.8	—	—	50	2.1	17.2	9.2	27
Terral Seed	25BHR89	212.8	—	—	45	4.5	17.0	9.4	26
Armor	1667	212.7	—	—	51	2.0	17.3	8.9	29
Dyna-Gro	D58VC65	212.6	—	—	39	2.1	16.8	9.0	27
Local Seed	LC0877VT2P	210.3	—	—	49	2.1	15.4	9.0	28
AgriGold	A6711VT2PRO	208.7	—	—	50	2.0	17.5	8.9	30
Pioneer	P0805AM	208.5	—	—	49	2.1	15.6	9.2	28
Dyna-Gro	D55VC45	207.8	—	—	46	2.2	18.1	8.8	27
Armor	X8117 *	207.6	—	—	48	6.3	16.7	8.6	28
Dyna Gro	D54VC14	207.3	—	—	52	2.3	16.0	8.8	25
Local Seed	LC1776VT2P	207.2	—	—	45	2.5	16.5	9.3	23
MorCorn	MC 4457	206.0	—	—	53	2.2	15.8	8.9	26
MorCorn	MC4725	204.5	—	—	53	2.3	16.1	8.8	25
AgriGold	A645-10VT2RIB	204.5	—	—	40	4.0	17.6	9.2	29
AgriGold	A6572VT2RIB	203.1	—	—	54	2.0	16.5	8.9	28
Augusta Seed	A1165	203.0	—	—	52	4.2	16.5	9.2	28
Dyna Gro	CX17117 *	200.7	—	—	44	2.2	17.5	8.9	26
Local Seed	LC1987VT2P	199.2	—	—	48	2.2	18.1	9.2	26
Armor	1887	196.4	—	—	51	8.2	18.2	9.3	28
Augusta Seed	A5464	195.0	—	—	49	2.0	17.1	9.2	30
Progeny Ag	PGY 6110VT2P	186.0	—	—	47	3.5	16.5	8.5	34
Local Seed	LC1577VT2P	184.6	—	—	40	4.4	16.0	8.1	26
Mean		220.7							
CV		7.3							
LSD (0.05)		22.6							
R^2		58.5							
Error DF		189							

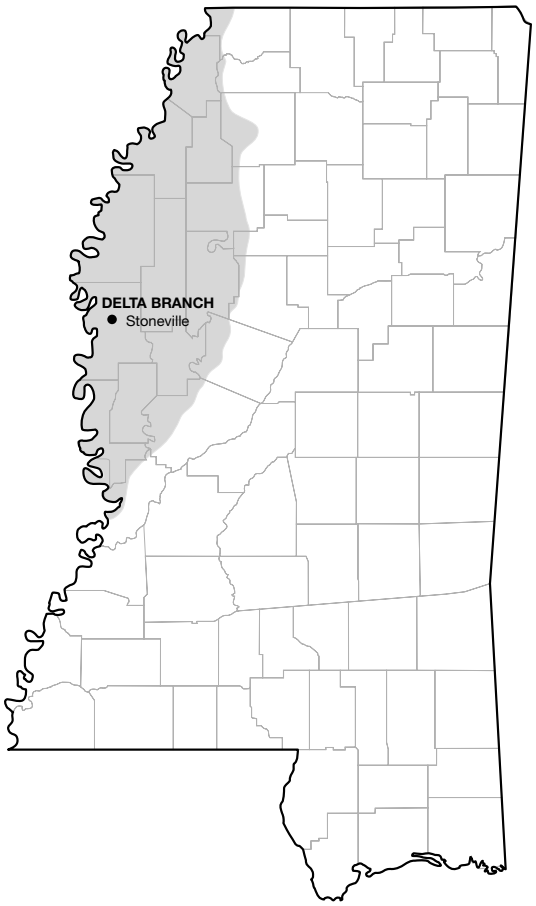
[1]Hybrid followed by an asterisk indicates an experimental entry. No 2-year averages. No 3-year averages.

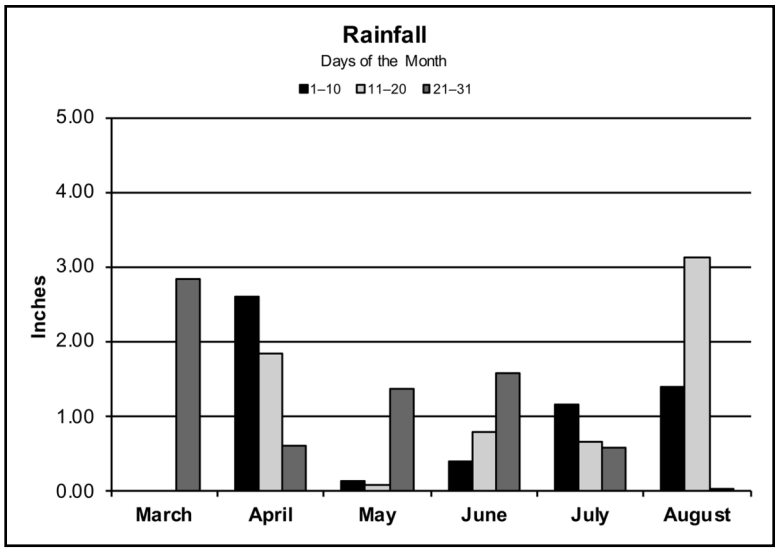
MAFES DELTA BRANCH, STONEVILLE (CLAY)

Crop Summary

Plots were planted into a stale, raised seedbed that had been prepared the previous fall. Soil moisture at planting was excellent for germination. All plots emerged to a good stand. The combination of rainfall events and timely irrigations allowed for good yields to be observed at this location. Harvest was completed in a timely manner.

Soil type . . . . . Sharkey clay
Soil pH 6.9
Soil fertility . . . . . P=H, K=H
Fertilizer . . . . . Starter — 10-20-5-1S-0.43Zn @ 18 gal/A on March 22
Sidedress — N @ 140 lb/A (32% UAN) on April 12 and N @ 120 lb/A (32% UAN) on May 21
Herbicide . . . . . Preemergence — Gramoxone @ 32 oz/A and Zidua @ 2 oz/A on March 22
Postemergence — Roundup PowerMAX @ 32 oz/A, Atrazine @ 32 oz/A, and Callisto @ 3 oz/A on May 16
Previous crop . . . Soybeans
Planting date . . . . March 22
Harvest date . . . . August 30
Irrigation . . . . . June 8, July 5, and July 26





Rainfall Summary

	Inches
March	2.85
April	5.07
May	1.61
June	2.79
July	2.43
August	4.52
Total	19.27

Table 14. Results from 72 corn hybrids grown with furrow irrigation on a Sharkey clay soil at MAFES Delta Branch, Stoneville, 2018.

Brand name	Hybrid[1]	2018 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*
Mission Seeds	MEX 1508DGVT2P *	277.4	—	—	44	1.5	15.9	9.2	39
Great Heart Seed	HT-7425DGVT2P	268.3	—	—	41	1.6	15.1	8.9	35
DeKalb	DKC65-95	266.3	261.8	—	45	1.7	15.3	9.0	35
Local Seed	AV8614VYHR	264.5	—	—	45	1.7	15.2	9.3	35
Terral Seed	REV 25BHR26	258.9	255.4	230.5	50	1.8	14.7	9.1	33
Augusta	A7768	258.7	242.7	229.4	45	3.1	16.8	9.7	37
DeKalb	DKC66-75	255.6	251.4	233.7	43	1.9	15.1	8.5	31
Dyna Gro	CX17117 *	254.3	—	—	39	1.7	15.7	8.9	34
DeKalb	DKC68-69	253.6	—	—	42	1.8	16.8	8.8	33
NK Seeds	NK1584-3000GT	252.6	—	—	49	3.6	15.1	9.3	33
Terral Seed	REV 27BHR79	252.4	—	—	43	10.3	15.7	9.4	34
Augusta	A8868	251.5	247.5	224.5	50	1.8	15.2	9.0	33
Mission Seeds	A1857SS	251.4	—	—	41	1.5	15.0	8.8	38
DeKalb	DKC70-27	250.4	255.3	235.4	38	1.7	16.3	8.5	35
AgriGold	A6711VT2PRO	249.9	245.0	227.3	40	1.7	15.2	8.6	35
Dyna-Gro	D55VC45	249.2	238.2	—	44	1.6	15.1	8.9	37
Terral Seed	REV 28BHR18	248.5	242.6	—	51	1.9	15.8	9.5	31
Augusta	A1367	248.1	—	—	44	3.1	16.7	9.6	37
Armor	1447	247.8	247.3	—	38	1.6	15.0	8.4	37
DeKalb	DKC69-16	247.7	—	—	40	1.6	14.8	8.6	35
Terral Seed	REV 24BHR99	247.2	—	—	43	1.8	15.6	9.3	33
Terral Seed	REV 23BHR55	246.5	253.7	226.5	40	1.6	15.1	8.8	37
Progeny Ag.	PGY 5115VT2P	245.5	242.8	219.8	36	1.5	15.2	8.8	39
Local Seed	LC1878VT2P	245.3	—	—	45	2.1	16.2	8.8	28
Progeny Ag	PGY 8116SS	245.2	250.2	—	42	1.6	15.7	8.6	35
Pioneer	P2089VYHR	242.8	250.5	222.3	50	1.8	16.3	9.1	33
DeKalb	DKC64-35	242.1	237.0	214.9	40	1.6	15.4	9.0	37
Local Seed	RL8430VYHR	242.0	—	—	47	1.8	13.8	9.2	33
AgriGold	A6659VT2RIB	241.6	245.7	229.3	42	1.8	14.9	8.8	32
Dyna Gro	D54VC14	241.3	—	—	40	1.7	14.5	8.6	34
AgriGold	A646-12STX	240.4	—	—	44	1.8	15.0	8.5	33
Great Heart Seed	HT-7486SS	240.1	247.8	—	47	1.6	15.8	8.7	37
Local Seed	LS1586TC	239.6	—	—	43	1.8	15.1	8.5	33
Augusta	A5464	239.5	—	—	40	1.6	14.6	8.6	36
DeKalb	DKC67-44	238.7	241.8	230.6	41	1.8	15.7	8.6	32
Croplan	5678	236.8	237.8	219.4	38	2.0	15.2	8.2	30
Local Seed	LC1577VT2P	236.7	—	—	34	1.8	15.3	7.7	33
DeKalb	DKC62-08	235.9	239.8	221.4	44	1.5	14.9	8.6	38
Armor	X8118 *	235.5	—	—	43	1.9	15.1	8.7	31
AgriGold	A647-90VT2RIB	235.4	—	—	46	1.8	16.1	9.0	32
Augusta	A1165	235.2	—	—	41	1.9	15.1	8.8	31
Progeny Ag	PGY EXP1814 *	234.9	—	—	37	1.6	14.6	8.3	36
AgriGold	A6572VT2RIB	234.2	224.9	209.1	41	1.8	15.9	8.8	33
Great Heart Seed	HT-7381VT2P	234.1	233.4	—	39	1.5	16.3	8.6	38
NK Seeds	NK1573-3110	234.0	228.2	—	41	3.8	14.5	8.8	31
Dyna-Gro	D58VC65	233.8	235.9	—	33	1.6	14.8	8.6	37
Augusta	A4463	233.1	—	—	45	1.9	14.5	8.6	30
Progeny Ag	PGY 6119VT2P	232.7	240.4	219.5	42	1.6	16.5	9.1	36
MorCorn	MC 4457	232.7	—	—	36	1.8	14.9	8.3	32
Progeny Ag.	PGY 6116VT2P	230.4	230.0	211.7	42	3.3	15.5	8.3	35
Armor	1887	229.8	232.0	—	42	1.7	16.3	9.3	35
Great Heart Seed	HT-7244VT2P	228.0	—	—	43	1.6	15.2	8.1	37
Armor	X8117 *	227.5	—	—	34	1.8	15.0	8.3	33
Armor	1667	227.4	230.5	—	41	1.6	15.8	8.8	35
Local Seed	LC1776VT2P	227.0	—	—	44	1.8	15.2	8.6	33
AgriGold	A645-10VT2RIB	226.8	224.1	—	39	1.7	15.4	9.0	35
Great Heart Seed	HT-7302VT2P	226.6	229.1	—	46	1.7	14.6	8.3	35
AgriGold	A6544VT2RIB	224.2	227.0	215.4	45	1.7	14.5	8.9	34
Great Heart Seed	HT-7676VT2P	223.9	—	—	45	1.6	16.4	9.2	37
Augusta	A5065	223.3	238.2	—	44	1.7	16.1	9.5	34
Terral Seed	REV 2616PWE	221.4	231.5	—	43	1.7	16.5	9.0	34
Mission Seeds	MEX 1308VT2P *	220.4	—	—	41	1.8	14.6	8.2	33
Local Seed	LC0877VT2P	220.0	—	—	38	1.7	14.8	8.3	35
Terral Seed	REV 25R27	216.0	—	—	46	11.8	15.1	9.4	30
Terral Seed	REV 25BHR89	215.5	—	—	44	1.8	15.1	9.5	33
Dyna Gro	D57VC51	215.3	—	—	34	1.6	15.6	9.0	37
Progeny Ag	PGY EXP1817 *	213.1	—	—	38	1.6	15.4	8.3	36

Continued.

Table 14 (continued). Results from 72 corn hybrids grown with furrow irrigation on a Sharkey clay soil at MAFES Delta Branch, Stoneville, 2018.

Brand name	Hybrid[1]	2018 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	DKC68-26	210.9	214.3	206.0	37	3.4	14.4	8.4	34
Local Seed	LC1987VT2P	207.0	—	—	45	1.8	15.7	8.6	33
MorCorn	MC4319	204.3	212.9	—	44	3.6	15.4	8.7	33
Augusta	A4465	200.5	—	—	34	1.8	14.3	8.5	33
MorCorn	MC4725	181.3	208.2	—	39	1.8	14.9	8.6	32
Mean		236.8							
CV		8.0							
LSD (0.05)		30.4							
R^2		55.1							
Error DF		142							

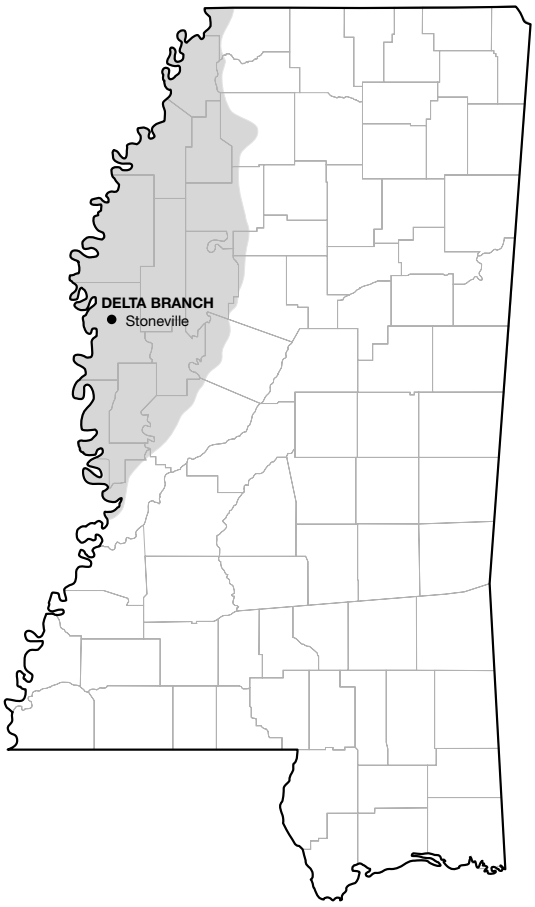
[1]Hybrid followed by an asterisk indicates an experimental entry.

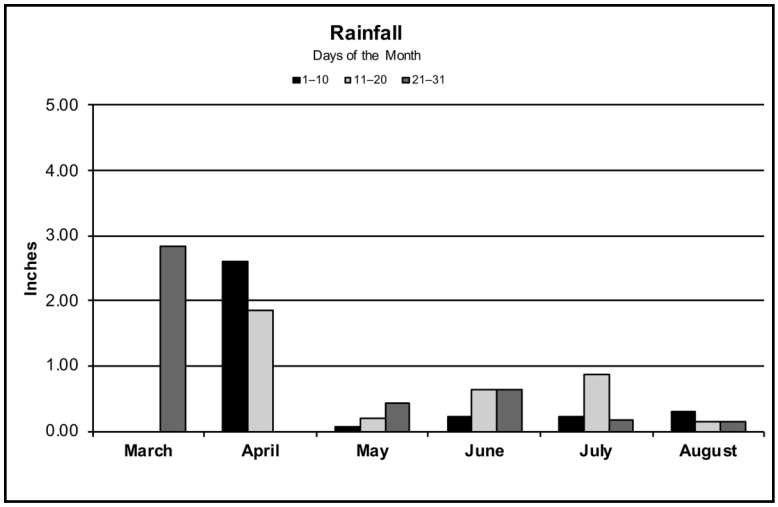
MAFES DELTA BRANCH, STONEVILLE (LOAM)

Crop Summary

Corn plots were planted into a conventionally tilled seedbed that had been hipped and rolled prior to planting. Soil moisture at planting was adequate for germination. All plots emerged to a stand. The plots experienced heavy rainfall in the weeks following planting. The combination of rainfall and irrigation supplied sufficient moisture throughout the growing season to produce good yields. Harvest was completed in a timely manner without difficulty.

Soil type . . . . . Bosket very fine sandy loam
Soil pH 6.7
Soil fertility . . . . . P=H, K=H
Fertilizer . . . . . Starter — 10-20-5-1S-0.43ZN @ 18 gal/A (applied 2x2) on March 22
Sidedress — N @ 120 lb/A (32% UAN) on April 3 and N @ 120 lb/A (32% UAN) on May 18
Herbicide . . . . . Preemergence — Zidua @ 2 oz/A and Gramoxone @ 32 oz/A on March 22
Postemergence — Roundup PowerMAX @ 32 oz/A, Atrazine @ 32 oz/A, and Callisto @ 3 oz/A on May 16
Previous crop . . . Corn
Planting date . . . . March 22
Harvest date . . . . August 30
Irrigation . . . . . June 8, July 5, July 13, and July 25





Rainfall Summary

	Inches
March	2.85
April	4.45
May	0.71
June	1.51
July	1.26
August	0.57
Total	11.35

Table 15. Results from 72 corn hybrids grown with furrow irrigation on a Bosket very fine sandy loam soil at the MAFES Delta Branch, Stoneville, 2018.

Brand name	Hybrid[1]	2018 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*
Local Seed	AV8614VYHR	278.0	—	—	40	0.0	16.5	9.5	33
Terral Seed	REV 28BHR18	264.7	257.4	—	46	0.0	17.0	9.8	33
Terral Seed	REV 27BHR79	257.4	—	—	45	0.0	16.5	9.5	30
Terral Seed	REV 24BHR99	254.4	—	—	42	0.0	15.7	8.7	33
Armor	1667	249.4	245.5	—	44	0.0	16.4	8.5	29
Progeny Ag	PGY 6119VT2P	249.0	256.5	239.1	45	0.0	16.9	8.6	34
Local Seed	RL8430VYHR	247.5	—	—	38	0.0	15.7	8.9	34
Terral Seed	REV 2616PWE	247.3	257.8	—	42	0.0	16.7	9.2	33
DeKalb	DKC67-44	247.0	245.6	240.3	40	0.0	16.7	8.5	30
Terral Seed	REV 25BHR26	245.8	251.0	238.4	40	0.0	16.0	9.3	30
Mission Seeds	A1857SS	244.9	—	—	44	0.0	16.3	9.2	31
Terral Seed	REV 23BHR55	243.9	269.6	253.0	37	0.0	15.4	9.2	28
Augusta	A7768	243.7	237.5	221.9	49	0.0	17.7	9.2	35
AgriGold	A6572VT2RIB	243.2	236.6	232.1	47	0.0	15.9	9.3	33
Pioneer	P2089VYHR	241.2	264.2	249.3	39	0.0	16.6	9.8	33
DeKalb	DKC70-27	240.9	235.6	237.3	43	0.0	16.9	8.4	32
AgriGold	A6659VT2RIB	237.8	252.9	236.3	37	0.0	16.0	8.7	33
Progeny Ag.	PGY 5115VT2P	236.6	242.2	236.2	38	0.0	16.0	8.5	36
Mission Seeds	MEX 1508DGVT2P *	235.9	—	—	43	0.0	15.6	9.0	28
Dyna Gro	CX17117 *	235.1	—	—	42	0.0	16.4	8.8	34
Augusta	A1367	234.9	—	—	39	0.0	16.5	9.1	30
Augusta	A5065	229.3	253.8	—	32	0.0	16.4	9.9	31
Progeny Ag	PGY 8116SS	228.3	249.2	—	37	0.0	17.0	8.6	38
Great Heart Seed	HT-7425DGVT2P	228.2	—	—	35	0.0	15.6	8.5	34
DeKalb	DKC65-95	228.1	228.0	—	39	0.0	16.8	8.6	30
Local Seed	LC1776VT2P	226.9	—	—	44	0.0	16.0	8.6	29
Local Seed	LC1878VT2P	226.8	—	—	43	0.0	16.5	8.6	30
Armor	1887	226.7	232.8	—	38	0.0	16.2	8.9	30
Terral Seed	REV 25R27	226.2	—	—	42	2.0	15.7	8.8	29
Progeny Ag	PGY EXP1814 *	226.1	—	—	38	0.0	15.2	8.2	34
Dyna-Gro	D55VC45	225.9	228.5	—	41	0.0	16.2	8.8	32
Local Seed	LS1586TC	223.4	—	—	41	0.0	16.1	8.3	29
Local Seed	LC1577VT2P	223.4	—	—	37	0.0	15.9	8.1	28
Armor	X8117 *	223.2	—	—	40	0.0	15.6	8.0	28
DeKalb	DKC62-08	223.1	249.1	240.4	42	0.0	15.5	8.0	33
AgriGold	A6711VT2PRO	222.8	231.7	227.1	38	0.0	15.9	8.4	22
Augusta	A5464	222.6	—	—	31	0.0	15.4	8.7	25
DeKalb	DKC64-35	221.7	237.9	234.1	35	0.0	15.9	8.4	33
Great Heart Seed	HT-7381VT2P	221.7	234.1	—	36	3.3	16.9	8.8	35
Terral Seed	REV 25BHR89	221.7	—	—	37	0.0	16.1	9.1	31
Armor	X8118 *	221.6	—	—	43	0.0	16.0	8.5	32
Local Seed	LC0877VT2P	221.3	—	—	38	0.0	14.8	8.1	34
AgriGold	A6544VT2RIB	217.9	232.9	227.1	44	1.8	15.1	8.3	33
Progeny Ag	PGY EXP1817 *	216.2	—	—	41	0.0	15.9	8.6	33
NK Seeds	NK1584-3000GT	216.1	—	—	44	0.0	15.9	9.2	33
Progeny Ag.	PGY 6116VT2P	215.7	231.2	228.8	43	2.1	15.9	8.5	28
DeKalb	DKC69-16	212.8	—	—	38	0.0	15.9	8.4	26
Local Seed	LC1987VT2P	211.2	—	—	44	0.0	17.3	9.0	28
Armor	1447	211.2	227.4	—	34	0.0	15.6	7.8	28
Great Heart Seed	HT-7302VT2P	210.2	208.5	—	36	0.0	15.3	8.4	31
AgriGold	A647-90VT2RIB	209.8	—	—	38	0.0	16.5	9.1	30
DeKalb	DKC66-75	209.0	234.7	232.8	39	0.0	16.2	8.2	32
DeKalb	DKC68-26	208.2	230.9	228.7	34	4.3	15.3	8.6	27
Dyna Gro	D57VC51	208.0	—	—	47	0.0	15.5	8.5	33
Augusta	A1165	206.5	—	—	40	0.0	16.3	8.4	26
AgriGold	A645-10VT2RIB	205.5	220.2	—	38	1.9	17.1	7.9	31
MorCorn	MC4319	205.5	211.8	—	37	0.0	16.8	8.2	28
Augusta	A4465	205.1	—	—	33	0.0	15.1	8.6	32
Augusta	A8868	204.9	242.8	240.5	41	5.4	15.7	9.0	33
MorCorn	MC4725	204.3	235.2	—	37	0.0	16.0	8.5	29
AgriGold	A646-12STX	204.1	—	—	47	0.0	15.7	8.5	28
Croplan	5678	203.6	230.5	227.7	37	0.0	16.1	8.1	35
Great Heart Seed	HT-7676VT2P	202.0	—	—	40	0.0	16.9	8.5	24
Great Heart Seed	HT-7486SS	201.8	234.4	—	45	0.0	16.4	8.5	31
NK Seeds	NK1573-3110	200.9	226.9	—	36	0.0	15.8	7.8	29
DeKalb	DKC68-69	200.1	—	—	36	0.0	17.4	8.4	31
Dyna Gro	D54VC14	199.5	—	—	37	0.0	15.0	8.0	22

[1]Continued.

Table 15 (continued). Results from 72 corn hybrids grown with furrow irrigation on a Bosket very fine sandy loam soil at the MAFES Delta Branch, Stoneville, 2018.

Brand name	Hybrid[1]	2018 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*
Augusta	A4463	195.8	—	—	38	0.0	14.9	8.5	27
MorCorn	MC 4457	191.5	—	—	38	0.0	15.4	8.2	24
Dyna-Gro	D58VC65	191.0	220.1	—	38	0.0	16.2	7.5	29
Great Heart Seed	HT-7244VT2P	190.1	—	—	34	26.2	15.5	7.6	24
Mission Seeds	MEX 1308VT2P *	168.6	—	—	40	0.0	15.4	8.0	26
Mean		222.6							
CV		9.4							
LSD (0.05)		33.7							
R^2		58.3							
Error DF		142							

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

Table 16. Characteristics provided by sponsoring companies for corn hybrids entered in the Mississippi Corn for Grain Hybrid Trials, 2018.

Company	Hybrid	Trait	Planting rate (x1000)	Seed treatment	Days to maturity
AgriGold Hybrids 5381 Akin Rd. St. Francisville, IL 62460 618-292-5844	A6544VT2RIB A6572VT2RIB A645-10VT2RIB A6659VT2RIB A646-12STX A647-90VT2RIB A6711VT2PRO	RR, VT2P RR, VT2P RR, VT2P RR, VT2P RR, LL, SS RR, VT2P RR, VT2P	32/34 32/34 32/34 32/34 32/34 32/34 32/36	P500+Votivo P500+Votivo P500+Votivo P500+Votivo P500+Votivo P500+Votivo P500+Votivo	113 114 115 116 116 117 118
Armor Seed 183 Pennsylvania Ave. Waldenburg, AR 72475 662-719-3157	1447 1667 X8117 X8118 1887	VT2P VT2P VT2P VT2P VT2P	32/34 32/34 32/34 32/34 32/34	A500 A500 A500 A500 A500	114 116 117 118 118
Augusta Seed P.O. Box 899 Verona, VA 24482 540-255-5901	A4465 A5065 A5464 A1367 A7768 A8868 A4463 A1165	VIP[3] VIP[3] VIP[3] VIP[3] VIP[3] VIP[3] VT2P VT2P	32/36 32/36 32/36 32/36 36 32/36 32/36 32/36	Cruiser 250 Cruiser 250 Cruiser 250 Cruiser 250 Cruiser 250 Cruiser 250 Cruiser 250 Cruiser 250	115 115 114 117 118 118 113 115
Great Heart Seed 220 W. Washington St. St. Paris, IL 61944 217-465-4132	HT-7381VT2P HT-7486SS HT-7676VT2P HT-7302VT2P HT-7402DGVT2P HT-7244VT2P	VT2P SS VT2P VT2P VT2P VT2P	38 36 36 36 36 36	Acceleron 500 Acceleron 500 Acceleron 500 Acceleron 500 Acceleron 500 Acceleron 500	113 114 117 113 114 112
Terral Seed Inc. 117 Ellington Dr. Rayville, LA 71269 318-341-8814	REV23BHR55 REV25BHR26 REV25R27 REV 28BHR18 REV 25BHR89 REV 24BHR99 REV 27BHR79 REV 2616PWE	RR, LL, HX[4] RR, LL, HX[4] RR RR, LL, HX[4] RR, LL, HX[4] RR, LL, HX[4] RR, LL, HX[4] RR, LL, Enlist	30/34 30/34 30/34 30/34 30/34 30/34 30/34 30/34	MQ+P1250+V MQ+P1250+V MQ+P1250+V MQ+P1250+V MQ+P1250+V MQ+P1250+V MQ+P1250+V Cruiser Maxx 1250	113 115 115 118 115 114 117 116
CORTEVA Agriscience Agriculture Division of DowDuPont 425 Abbeydale Way Columbia, SC 29229 803-308-1003	P0805AM P2089VYHR	RR, LL, HX[4] RR, HX[4], LL, VIP[3]	30 32	P1250 + Votivo P1250 + Votivo	108 120
Progeny AG Products 1529 Hwy. 193 Wynne, AR 72396 979-587-9968	6110VT2P 7111VT2P 5115VT2P 6116VT2P 8116SS 7118VT2P 6119VT2P EXP1814 EXP1817	RR, VT2P RR, VT2P RR, VT2P RR, VT2P RR, SS RR, VT2P RR, VT2P RR, VT2P RR, VT2P	36 34 38/38 34/36 36/38 32 34/36 36/36 34/36	PV500 PV500 PV500 PV500 PV500 PV500 PV500 PV500 PV500	110 111 115 116 116 118 119 114 117
Monsanto 108 Bayberry Lane Madison, MS 39110 601-317-2661	DKC70-27 DKC69-16 DKC68-69 DKC68-26 DKC67-44 DKC66-75 DKC64-35 DKC62-08 DKC65-95	RR, VT2P RR, VT2P RR, VT2P RR, VT2P RR, VT2P RR, VT2P RR, VT2P RR, LL, SS RR, VT2P	34 34 34 34 32 34 36 34/36 34/36	Acceleron 1250 Acceleron 1250 Acceleron 1250 Acceleron 1250 Acceleron 1250 Acceleron 1250 Acceleron 1250 Acceleron 1250 Acceleron 1250	120 119 118 118 117 116 114 112 115

Table 16 (continued). Characteristics provided by sponsoring companies for corn hybrids entered in the Mississippi Corn for Grain Hybrid Trials, 2018.

Company	Hybrid	Trait	Planting rate (x1000)	Seed treatment	Days to maturity
Dyna-Gro Seed 254 U.S. Hwy. 72 Collierville, TN 38017 662-401-6311	D54VC14 D55VC45 CX17117 D57VC51 D58VC65	VT2P VT2P SS VT2P VT2P	28/34 28/34 28/34 30/36 28/34	P500 P500 P500 P500 P500	114 115 117 117 118
SeedKoz 1725 Windward Concourse Suite 410 Alpharetta, GA 30005 478-957-9865	MC4319 MC 4457 MC4725	VT2P VT2P VT2P	28/34 28/34 28/34	— — —	113 114 117
Land O'Lakes, Inc. / Croplan by Winfield P.O. Box 64131 St. Paul, MN 55164-0131	5678	RR, VT2P	34/36	—	116
NK Seeds 5210 State Rd. Hickory, KY 42051	NK1584 3000GT NK1573 3110	RR, HX[4], LL, VIP[3] RR, HX[4], LL, VIP[3]	36 36	Avicta Complete Avicta Complete	115 115
Mission Seed Solutions 516 N. Sharpe Ave. Cleveland, MS 38732 662-822-9926	MEX 1308VT2P MEX1508DGVT2P A1857SS	RR, VT2P RR, VT2P RR, SS	34 36/38 36/38	Acceleron 250 Acceleron 250 Poncho 500	113 115 118
Local Seed Company 802 Rozella St. Memphis, TN 38104 570-419-3692	LC0877VT2P RL8430VYHR AV8614VYHR LS1586TC LC1577VT2P LC1776VT2P LC1878VT2P LC1987VT2P	RR, VT2P RR, HX[4], LL, VIP[3] RR, HX[4], LL, VIP[3] RR, VT2P RR, VT2P RR, VT2P RR, VT2P RR, LL, SS	28/34 28/34 28/34 28/34 28/34 28/34 30/36 28/34	CruiserMAXX 250 CruiserMAXX 250 CruiserMAXX 250 CruiserMAXX 250 CruiserMAXX 250 CruiserMAXX 250 CruiserMAXX 250 CruiserMAXX 250	108 113 114 115 116 117 118 119

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