Louisiana Corn for Grain

Hybrid Trials 2018

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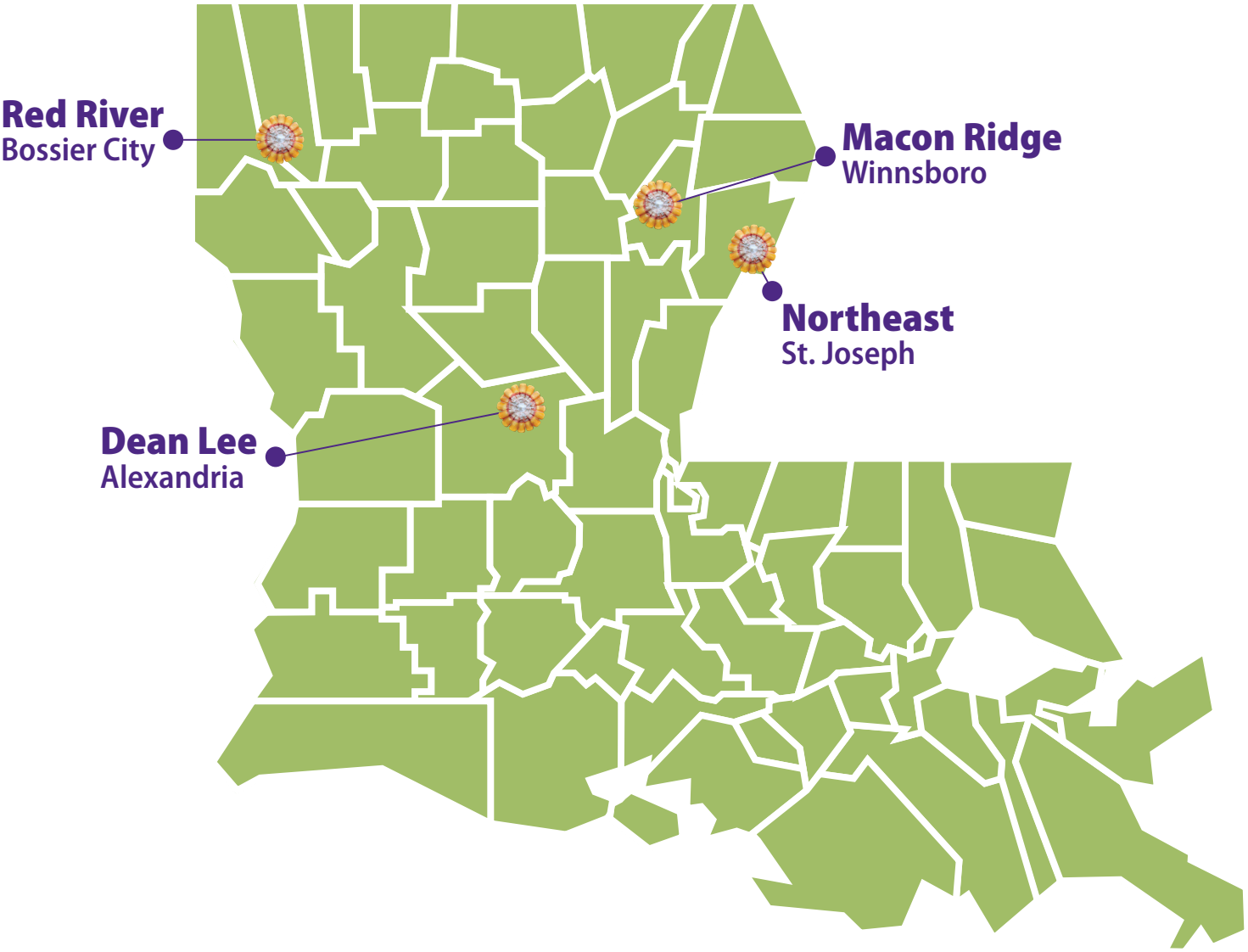
Research · Extension · Teaching

CORN HYBRID TEST LOCATIONS



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Introduction

The performance of corn hybrids is annually evaluated in the official variety trials (OVTs) by LSU AgCenter researchers. The purpose of these trials is to provide Louisiana growers, seedsmen, county agents and consultants with unbiased performance data for commercial corn hybrids submitted for evaluation by private companies. Selection of superior hybrids that are well-adapted for a given region is essential for maximizing yield and profit. In 2018, 51 corn hybrids were entered by the commercial seed companies. Locations of these trials included the Dean Lee Research and Extension Center in Alexandria; Red River Research Station in Bossier City; Northeast Research Station in St. Joseph; and Macon Ridge Research Station in Winnsboro (Table 1).

Table 1. Summary of corn hybrid trials by location, 2018.

Location	Soil type	Irrigation	Row spacing	Planting date	Harvest date
Alexandria	Coushatta silt loam	Nonirrigated	38″	3/23	8/24
Bossier City	Moreland silty clay loam	Furrow	40″	3/22	8/22
St. Joseph	Commerce silt loam	Furrow	40″	3/23	8/17
St. Joseph	Sharkey clay	Furrow	40″	3/23	8/16
Winnsboro	Gigger silt loam	Furrow	40″	3/21	8/22

Suggestions for Selecting Hybrids

Hybrid selection is one of the most important decisions a producer will make and is essential for successful corn production. Seed companies offer multiple hybrids for sale to producers for good reasons. Each corn producer has somewhat different soil conditions, irrigation practices and crop rotations compared to other growers located in each farming community. Some hybrids will tend to perform better than others based on soil type, planting date, environmental conditions and location.

Yield is important when selecting a corn hybrid; however, maturity, stay green, lodging, shuck cover, ear placement and disease and insect resistance need to be considered. Yield data from multiple locations and years are good indicators of the consistency of a hybrid's performance.

Hybrid maturity is rated using the relative maturity (RM) or growing degree day (GDD) rating systems. These two methods are based on the number of days or degree days for a hybrid to reach physiological maturity. Louisiana producers can grow early, midseason, and full-season hybrids. In Louisiana, 112-to-121-day-maturity hybrids usually produce the best yields. Full-season hybrids do not consistently out-yield midseason hybrids. It appears there is more variability in yield among hybrids within a given RM rating than there is between maturity groups.

Hybrids that stay green later into their maturity usually retain better stalk strength and have less lodging potential. Shuck cover is important for protecting the ear and kernels from weathering and fungi. At later planting dates, a corn hybrid will grow taller because of an increase in day and night temperatures causing the internodes of the stalks to be longer. Therefore, ear placement will be higher when compared to an earlier planting date. This usually means that the lodging potential will be greater. When planting late in the season, consider planting a hybrid that has a low ear placement.

Also, corn hybrids have different insect and herbicide traits. These biotechnology traits will need to be considered and should be based on which one best fits into your production system.

Select several hybrids that are consistently top performers over multiple locations or years within a region. Consistency over multiple environments is important because we cannot predict next year's growing conditions.

Procedures

The experimental design at each location was a randomized complete block design with four or five replications. Corn variables measured and rating scales are listed in Table 2. Analysis of variance and least-significant differences (LSD) were calculated only if differences existed at the 90 percent confidence level. If differences were significant, an LSD at the 10 percent probability level was calculated. If the LSD (0.10) for yield in a trial is 10 bushels per acre, there is a 10 percent chance that two hybrids with a reported yield difference of 10 bushels per acre are genetically equal and a 90 percent probability they have a difference in genetic potential in that particular environment. LSD values are influenced by how well soil fertility, stand establishment, plot length, harvest efficiency and other variables are controlled and by number of replications for each hybrid. The letters NS are used in the text and tables to indicate lack of significance (not significantly different) at the 10 percent probability level. The coefficient of variation (CV) reflects the magnitude of experimental error (random variation not accounted for by hybrids and replications) in relation to the trial mean. A high CV means that relative differences among hybrids were not consistent among replications, which reduces the precision of the test.

Yield data for 2018 across locations and two-year averages across locations are summarized in Tables 3 and 4. To be considered for a two-year average, hybrids must

have the same seed traits each year (refer to Table 10). For each individual location, a summary of cultural practices, growing conditions, temperatures and rainfall is listed prior to the yield and agronomic data (Tables 5-9). Seed traits and hybrid maturities are listed in Table 10 and participating seed companies are listed in Table 11.

Table 2. Corn performance variables measured for the LSU AgCenter Official Variety Trials, 2018.

Variable	Abbreviation	Description
Yield	Yield	Grain yield, bu/a, @ 15.5% harvest grain moisture
Grain moisture	GM	Grain moisture at harvest, %
Test weight	Test wt	Volume weight of grain, lb/bu
Plant population	Stand	Number of plants at harvest, plt/a
Midsilking date	MS	Date of silk emergence in 50% of plants in plots, days after planting (DAP)
Plant height	PH	Height from ground to the flag leaf, inches (in)
Ear height	EH	Height from ground to where primary ear attaches to the plant, inches (in)
Husk Cover	HC	Measure how well the kernels are covered by the husk, with ratings of 1-3; 1=closed and 3=open husk
Lodging	LO	Percent of plants that are lodged at harvest

For additional information: Dan Fromme, 318-880-8079, dfromme@agcenter.lsu.edu

Table 3. Summary of yield performance of corn hybrids across five locations in the 2018 LSU AgCenter official hybrid trials.

Company	Hybrid	Alex[1]	BC	SJ-sl	SJ-c	WN	AVG
		bu/acre @ 15.5%					
Pioneer	P 1870 YHR	182.3	165.9	268.1	248.7	198.8	212.8
Terral Seed	REV 28BHR18	159.6	164.5	267.5	270.0	198.8	212.1
Local Seed	AV 8614 VYHR	167.5	168.8	259.4	234.3	204.1	206.8
Terral Seed	REV 27BHR79	167.7	144.0	254.7	256.3	197.1	204.0
Terral Seed	REV 25BHR89	169.9	143.3	254.5	251.4	190.4	201.9
Terral Seed	REV 24BHR99	177.8	154.4	241.0	242.2	191.7	201.4
BH Genetics	BH 8721 VT2P	160.3	148.4	253.9	242.5	197.7	200.6
Terral Seed	REV 25BHR26	165.1	151.6	252.4	239.2	188.5	199.4
DEKALB	DKC 67-44	161.6	141.2	269.4	230.5	193.6	199.3
Mission Seed	MEX 1508 DGVT2P	178.4	121.9	254.1	238.3	200.4	198.6
Terral Seed	REV 2616PWE	176.1	139.5	249.4	234.4	192.3	198.3
Augusta Seed	Augusta 1367	174.1	139.0	248.6	235.0	193.8	198.1
Dyna-Gro	D 57VC51	164.4	146.6	240.0	237.7	198.0	197.3
Syngenta	NK 1584	177.4	153.0	248.2	215.2	191.8	197.1
DEKALB	DKC 68-69	169.1	153.1	239.8	235.3	188.1	197.1
Terral Seed	REV 23BHR55	173.1	148.3	237.7	233.7	191.3	196.8
DEKALB	DKC 69-16	162.6	151.0	242.9	229.5	197.7	196.7
DEKALB	DKC 68-26	187.2	121.0	245.0	230.3	198.4	196.4
Local Seed	RL 8430 VYHR	172.1	157.3	231.0	227.1	191.1	195.7
DEKALB	DKC 70-27	153.2	146.6	255.8	234.5	188.5	195.7
DEKALB	DKC 65-95	172.7	144.7	242.0	225.9	189.4	194.9
Simplot	Legend LR98T14	161.3	122.1	254.9	234.3	201.5	194.8
WinField United	Croplan 5370 VT2P	174.6	134.6	250.0	225.9	180.0	193.0
DEKALB	DKC 66-75	173.5	128.4	243.6	232.3	186.3	192.8
Local Seed	LC 1577 VT2P	165.7	122.9	252.4	225.1	193.4	191.9

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BH Genetics	BH 8737 VT2P	181.8	116.3	236.1	228.0	196.0	191.6
Dyna-Gro	D 55VC45	164.4	147.6	242.0	214.9	188.1	191.4
Local Seed	LC 1878 VT2P	164.6	126.9	248.7	235.5	180.5	191.2
Dyna-Gro	D 54VC14	176.2	123.5	247.8	213.1	195.1	191.1
Armor	Armor 1447	182.8	127.7	235.4	208.9	197.5	190.5
Simplot	Legend LR97TX14	161.5	128.1	244.8	229.2	188.5	190.4
Terral Seed	REV 25R27	152	135.4	253.4	221.0	188.5	190.1
Mission Seed	A 1857 SS	164.4	136.1	244.3	221.5	180.4	189.3
Augusta Seed	Augusta 5065	148	138.1	235.0	231.7	193.1	189.2
Dyna-Gro	CX 17117	158.5	139.9	239.0	224.6	182.0	188.8
Dyna-Gro	D 58VC65	168.2	103.2	246.7	227.1	198.7	188.8
Armor	Armor 1667	172.4	140.2	239.0	218.3	169.6	187.9
Armor	Armor X8117	179.9	108.2	243.3	212.5	194.6	187.7
WinField United	Croplan 5678 VT2P	170.4	103.3	236.1	226.0	193.3	185.8
DEKALB	DKC 64-35	159.1	132.5	238.9	209.0	187.3	185.4
WinField United	Croplan 5789	163.9	136.3	231.4	207.9	183.0	184.5
Armor	Armor 1887	147.5	134.6	238.1	227.3	171.1	183.7
Local Seed	LC 1987 VT2P	143.5	133.0	231.9	229.0	178.3	183.1
BH Genetics	BH 8735 VTTP	167.1	126.3	222.8	213.7	184.9	183.0
Dyna-Gro	D 52VC63	152.2	119.9	232.5	215.6	182.8	180.6
Pioneer	P 1366 YHR	160.3	124.2	224.1	206.9	178.1	178.7
Syngenta	NK 1573	148.1	132.3	219.2	200.8	192.3	178.5
Simplot	Legend LR97TX16	156.4	119.3	226.9	204.2	185.6	178.5
Simplot	Legend LR98T13	152.6	125.9	229.2	189.4	184.3	176.3
Mission Seed	MEX 1308 VT2P	164.8	126.5	216.8	184.4	179.3	174.4
Augusta Seed	Augusta 4465	158.1	116.0	215.2	193.1	179.2	172.3
Average		166.01	137.5	242.6	225.6	189.7	
CV, %		10.41	9.77	4.47	5.31	6.15	
LSD (0.10)		20.23	14.05	12.7	14.01	12.19	

Numbers shaded within a column are not significantly different from the numerically greatest value.

[1]Alex=Alexandria; BC=Bossier City; SL-sl=St. Joseph silt loam; SJ-c=St. Joseph clay; WN=Winnsboro

Table 4. Two-year corn hybrid yield summary across locations.

Company	Hybrid	Alex[1]	BC	SJ-sl	SJ-c	WN	Overall avg.
		bu/acre @ 15.5%					
Pioneer	P 1870 YHR	176.1	187.1	243.4	241.4	203.3	210.2
Terral Seed	REV 28BHR18	167.4	179.7	238.0	247.5	193.7	205.2
DEKALB	DKC 70-27	178.1	181.4	234.7	231.4	196.0	204.3
Dyna-Gro	D 57VC51	180.3	169.6	222.2	237.7	207.7	203.5
Terral Seed	REV 25BHR26	169.6	184.9	237.5	232.2	188.6	202.6
BH Genetics	BH 8721 VT2P	171.7	172.6	222.5	240.0	204.3	202.2
Terral Seed	REV 23BHR55	172.8	188.2	220.4	231.4	192.5	201.1

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Terral Seed	REV 2616PWE	173.2	175.9	221.0	235.7	187.8	198.7
DEKALB	DKC 67-44	172.0	171.1	230.5	222.6	193.0	197.8
Armor	Armor 1667	176.2	175.6	222.8	224.0	186.2	197.0
DEKALB	DKC 68-26	183.1	146.9	222.4	224.7	197.0	194.8
Dyna-Gro	D 55VC45	166.0	176.0	227.7	216.9	183.9	194.1
Armor	Armor 1447	186.2	158.0	215.2	215.9	189.3	192.9
WinField United	Croplan 5678 VT2P	176.1	145.7	209.1	217.5	185.3	186.7
DEKALB	DKC 64-35	169.1	165.6	215.5	201.6	181.8	186.7
Syngenta	NK 1573	167.8	167.2	207.6	202.1	183.4	185.6
Dyna-Gro	D 58VC65	175.1	141.6	205.9	222.2	178.8	184.7
Overall mean		174.1	169.8	223.3	226.1	191.3	196.9

[1]Alex=Alexandria; BC=Bossier City; SL-sl=St. Joseph silt loam; SJ-c=St. Joseph clay; WN=Winnsboro

Corn Hybrid Performance Trial, Dean Lee Research & Extension Center, Alexandria

Crop Summary

Soil moisture conditions were very good at planting and throughout the month of April. However, during the months of May and June, rainfall was below normal, and temperatures were above normal (see graph below). Grain yields ranged from 143.5 to 187.2 bushels per acre with a trial average of 166.01 bushels per acre in this dryland trial (Table 5). Lack of rainfall in May and June limited the yield potential at this location. There were 24 hybrids that fell within the high-yielding group for 2018. Other agronomic data are presented in Table 5.

Soil type:	Coushatta silt loam	**Preplant fertilizer:**	0-41-81 (11/16/17)
Soil pH:	7.78	**Post-plant fertilizer:**	200-0-0-15 (4/20/18)
Tillage	Stale seed bed	**Post-plant fertilizer:**	Zinc @ .53 lbs -foliar (5/4/18 and 5/14/18))
Previous crop:	Soybeans	**Herbicide applications:**	Pre-emerge: Atrazine 4L + Medal II (3/26/18)
Row width:	38"		Post-emerge: Atrazine 4L + Glyphosate (5/1/18)
Seeding rate:	36,000	**Harvest date:**	August 24, 2018
Planting date:	March 23, 2018	**Harvested plot size:**	2 rows by 50 feet
Irrigation:	No	**Experimental design:**	RCBD
		Replications:	5

Alexandria Weather
(For Each 10-Day Period)

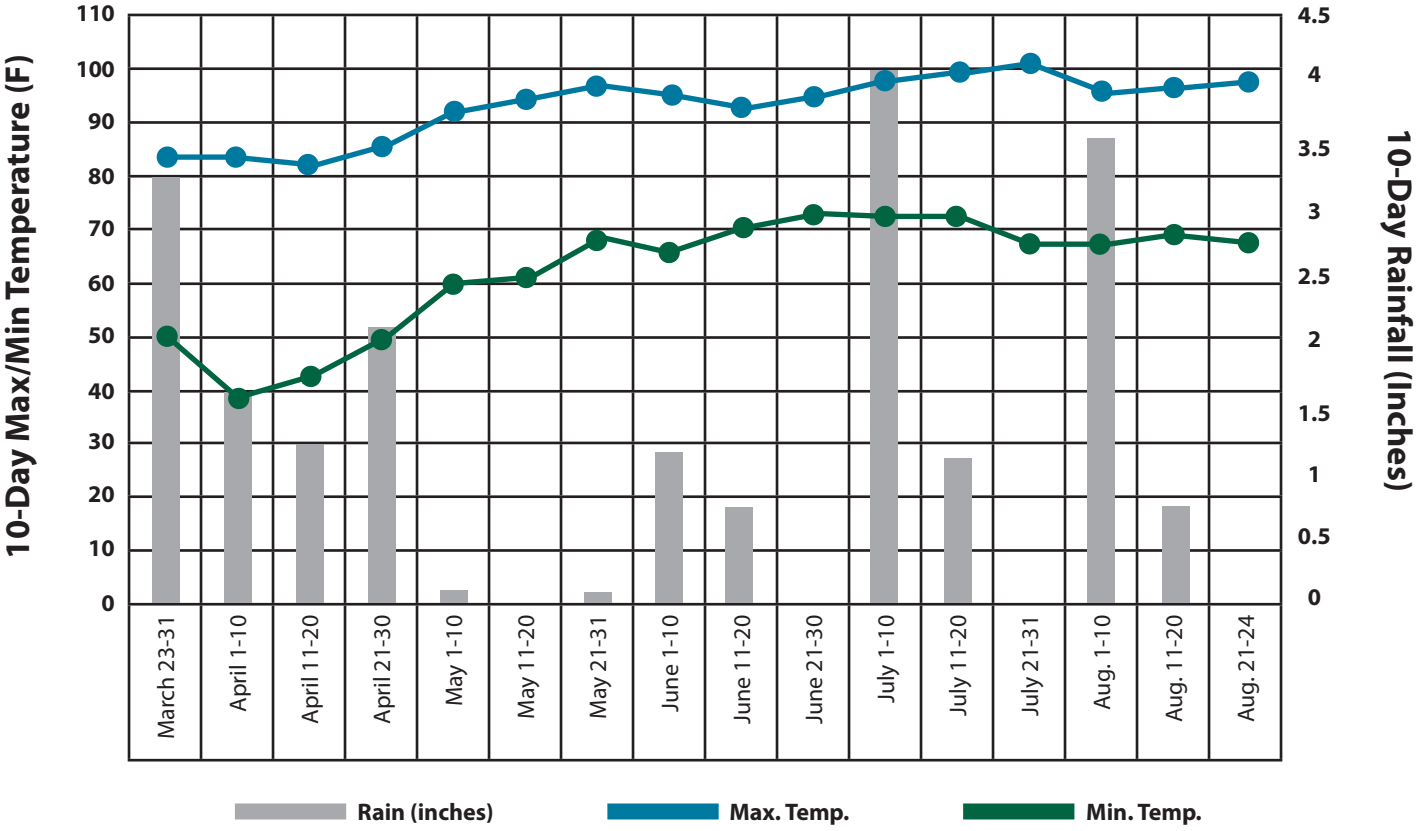

Table 5. Performance of corn hybrids, Alexandria, 2018.

Company	Hybrid	Yield[1]	GM[2]	Test wt	Stand	MS[2]	PH[2]	EH[2]	HC[2,3]	LO[2]
		bu/a	%	lb/bu	plt/a	DAP	in.	in.	1-3	%
DEKALB	DKC 68-26	187.2	11.4	57.3	34,576	69	87	44	1.0	0.48
Armor	Armor 1447	182.8	11.1	57.8	32,575	69	81	42	2.2	0.21
Pioneer	P 1870 YHR	182.3	13.6	58.3	32,247	71	86	43	1.8	0.00
BH Genetics	BH 8737 VT2P	181.8	11.3	57.1	32,082	68	84	42	1.2	0.12
Armor	Armor X8117	179.9	12.3	59.3	33,918	70	84	42	1.4	0.19
Mission Seed	MEX 1508 DGVT2P	178.4	10.4	56.1	33,397	69	85	45	1.0	0.10
Terral Seed	REV 24BHR99	177.8	10.8	56.8	33,452	71	89	45	1.2	0.10
Syngenta	NK 1584	177.4	10.4	54.5	33,808	70	92	50	1.8	0.19
Dyna-Gro	D 54VC14	176.2	10.7	57.1	32,658	69	80	39	2.2	0.10
Mycogen	MY 16M16	176.1	11.8	57.7	36,192	72	89	47	1.8	0.00
WinField United	Croplan 5370 VT2P	174.6	10.1	56.0	33,699	71	88	44	2.4	0.00
Augusta Seed	Augusta 1367	174.1	10.8	55.3	36,301	71	91	47	1.8	0.00
DEKALB	DKC 66-75	173.5	11.0	56.5	34,000	71	86	45	1.6	0.00
Terral Seed	REV 23BHR55	173.1	9.7	56.0	34,302	71	89	43	2.4	0.20
DEKALB	DKC 65-95	172.7	10.4	55.8	33,562	70	84	41	2.6	0.00
Armor	Armor 1667	172.4	11.8	58.6	33,863	72	84	45	1.6	0.00
Local Seed	RL 8430 VYHR	172.1	9.8	56.5	34,411	72	90	44	1.8	0.10
WinField United	Croplan 5678 VT2P	170.4	11.6	58.7	34,137	71	81	41	1.2	0.00

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Terral Seed	REV 25BHR89	169.9	11.4	57.6	33,370	71	89	45	2.8	0.10
DEKALB	DKC 68-69	169.1	12.8	58.0	34,548	72	85	43	1.0	0.20
Dyna-Gro	D 58VC65	168.2	11.5	57.7	34,548	71	80	40	1.0	0.49
Terral Seed	REV 27BHR79	167.7	11.9	57.9	33,178	72	90	45	1.4	0.00
Local Seed	AV 8614 VYHR	167.5	11.0	61.1	34,348	72	89	44	1.0	0.00
BH Genetics	BH 8735 VTTP	167.1	12.3	58.6	33,781	71	95	50	1.2	0.10
Local Seed	LC 1577 VT2P	165.7	11.3	58.0	33,398	70	79	39	2.6	0.20
Terral Seed	REV 25BHR26	165.1	11.3	58.8	34,384	71	92	50	1.4	0.00
Mission Seed	MEX 1308 VT2P	164.8	11.7	57.5	34,712	69	81	41	1.0	0.10
Local Seed	LC 1878 VT2P	164.6	12.4	59.6	33,589	72	83	43	1.6	0.47
Mission Seed	A 1857 SS	164.4	12.5	59.6	32,575	72	84	44	1.4	0.39
Dyna-Gro	D 57VC51	164.4	12.1	58.4	30,932	71	82	40	1.8	0.34
Dyna-Gro	D 55VC45	164.4	10.6	56.3	33,672	70	85	43	1.4	0.00
WinField United	Croplan 5789	163.9	12.0	57.8	33,480	70	87	44	1.6	0.00
DEKALB	DKC 69-16	162.6	11.9	58.1	32,548	72	83	41	1.4	0.11
DEKALB	DKC 67-44	161.6	11.9	57.0	34,685	70	83	42	1.6	0.72
Simplot	Legend LR97TX14	161.5	11.0	57.3	34,904	69	81	39	1.4	0.10
Simplot	Legend LR98T14	161.3	11.2	57.4	28,575	69	82	40	1.0	0.00
BH Genetics	BH 8721 VT2P	160.3	12.1	57.8	36,164	70	85	43	1.8	0.10
Pioneer	P 1366 YHR	160.3	10.2	57.4	31,781	69	85	42	2.4	0.00
Terral Seed	REV 28BHR18	159.6	12.4	58.3	32,192	73	93	50	1.6	0.45
DEKALB	DKC 64-35	159.1	11.6	58.0	33,205	71	83	40	2.0	0.00
Dyna-Gro	CX 17117	158.5	11.9	59.0	35,041	72	86	44	1.2	0.00
Augusta Seed	Augusta 4465	158.1	10.2	56.2	33,507	70	87	42	1.6	0.50
Simplot	Legend LR97TX16	156.4	10.5	55.5	33,342	69	86	46	1.0	0.10
DEKALB	DKC 70-27	153.2	12.6	58.7	32,932	71	85	43	1.8	0.00
Simplot	Legend LR98T13	152.6	11.2	58.1	31,598	68	85	45	1.2	0.45
Dyna-Gro	D 52VC63	152.2	10.1	56.5	34,384	69	80	38	1.2	0.20
Terral Seed	REV 25R27	152	10.8	57.7	32,822	70	89	43	2.8	0.00
Syngenta	NK 1573	148.1	9.6	55.0	35,589	70	86	43	1.0	0.09
Augusta Seed	Augusta 5065	148	12.1	56.9	32,000	72	87	40	1.0	0.12
Armor	Armor 1887	147.5	12.5	57.1	33,397	72	84	42	1.8	0.11
Local Seed	LC 1987 VT2P	143.5	12.8	58.8	32,548	72	82	44	2.0	0.21
Average		166.01	11.38	57.49	33,551	70.53	86	43.31	1.61	0.15
CV, %		10.41	5.88	3.11	7.19	1.59	4.05	6.33	34.24	272.09
LSD (0.10)		20.23	0.6989	1.868	2,520.7	1.17	3.63	2.86	0.58	NS

Numbers shaded within a column are not significantly different from the numerically greatest value.

[1]Yield adjusted to 15.5%.

[2]GM-harvest grain moisture; MS-mid silk; PH-plant height; EH-ear height, HC-husk cover; LO-lodging.

[3]Husk cover ratings-1 = closed and 3 = open husk.

NS=Statistically nonsignificant at the 0.10 probability level.

Corn Hybrid Performance Trial, Red River Research Station, Bossier City

Crop Summary

During the months of May and June, rainfall was below normal, and temperatures were above normal (see graph below). Grain yields ranged from 103.2 to 168.8 bushels per acre with a trial average of 137.5 bushels per acre in this irrigated trial (Table 6). There were four hybrids that fell within the high-yielding group for 2018. Other agronomic data are presented in Table 6.

Soil type:	Moreland silty clay loam	**Preplant fertilizer:**	None was applied
Soil pH:		**Post-plant fertilizer:**	35-0-0 (4/3/18) and 190-0-0 (4/30/18)
Tillage	Conventional	**Herbicide applications:**	Pre-emerge: Leadoff + First Shot (3/23/18)
Previous crop:	Corn	**Herbicide applications:**	Post-emerge: Capreno + Atrazine (4/10/18)
Row width:	40"	**Harvest date:**	Aug. 22, 2018
Seeding rate:	36,000	**Harvested plot size:**	2 rows by 34 feet
Planting date:	March 22, 2018	**Experimental design:**	RCBD
Irrigation:	Yes	**Replications:**	5

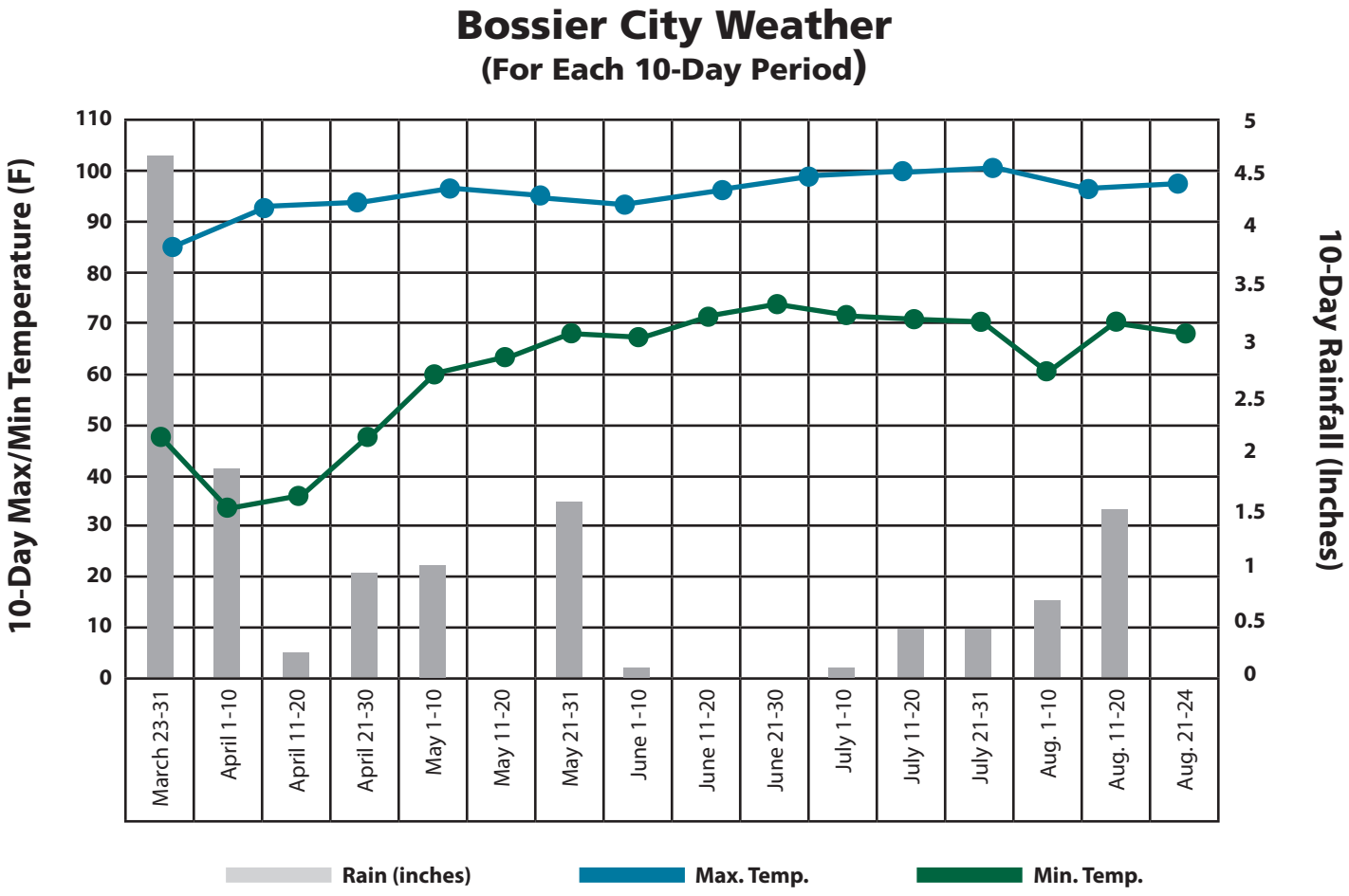

Table 6. Performance of corn hybrids, Bossier City, 2018.									
Company	**Hybrid**	**Yield[1]**	**GM[2]**	**Test wt**	**Stand**	**MS[2]**	**PH[2]**	**EH[2]**	**HC[2,3]**
		bu/a	**%**	**lb/bu**	**plt/a**	**DAP**	**in.**	**in.**	**1-3**
Local Seed	AV 8614 VYHR	168.8	15.0	57.8	35,808	75.8	103	35	2.0
Pioneer	P 1870 YHR	165.9	15.7	58.5	31,887	75.4	93	36	1.8
Terral Seed	REV 28BHR18	164.5	16.3	58.9	33,717	76.4	102	40	1.6
Local Seed	RL 8430 VYHR	157.3	13.6	56.4	31,103	74.6	98	35	2.2
Terral Seed	REV 24BHR99	154.4	14.1	58.7	32,410	75.8	99	38	1.4
DEKALB	DKC 68-69	153.1	15.7	59.4	34,239	76.4	91	32	1.4
Syngenta	NK 1584	153	15.0	54.0	31,365	74.8	107	44	1.8
Terral Seed	REV 25BHR26	151.6	14.0	58.8	30,842	76.4	103	37	2.0
DEKALB	DKC 69-16	151	14.9	58.5	25,092	75.4	93	32	1.6
BH Genetics	BH 8721 VT2P	148.4	15.2	58.6	32,410	75.6	92	35	1.6
Terral Seed	REV 23BHR55	148.3	14.0	56.1	34,501	75.0	101	34	2.2
Dyna-Gro	D 55VC45	147.6	15.1	57.7	35,024	76.0	86	30	1.4
DEKALB	DKC 70-27	146.6	15.9	58.2	29,535	77.0	92	33	1.6
Dyna-Gro	D 57VC51	146.6	14.6	58.4	32,149	75.4	96	34	1.4
DEKALB	DKC 65-95	144.7	15.5	58.3	34,762	77.2	90	34	1.8
Terral Seed	REV 27BHR79	144	14.9	61.0	30,058	77.2	104	35	1.6
Terral Seed	REV 25BHR89	143.3	14.2	57.9	31,887	75.2	96	35	2.6
DEKALB	DKC 67-44	141.2	15.2	58.0	28,489	74.4	89	32	1.6
Armor	Armor 1667	140.2	15.6	59.1	33,194	77.0	92	35	1.6
Dyna-Gro	CX 17117	139.9	15.1	58.4	34,501	78.0	92	37	1.2
Mycogen	MY 16M16	139.5	14.7	57.8	39,989	77.2	95	34	1.6
Augusta Seed	Augusta 1367	139	15.4	55.9	35,546	76.0	100	36	1.6
Augusta Seed	Augusta 5065	138.1	14.8	59.2	31,626	75.4	102	38	1.8
Winfield United	Croplan 5789	136.3	15.5	58.7	32,410	76.8	94	35	1.4
Mission Seed	A 1857 SS	136.1	15.6	59.7	33,455	77.4	96	36	1.6
Terral Seed	REV 25R27	135.4	14.1	57.9	29,535	76.0	100	32	2.6
Armor	Armor 1887	134.6	15.0	58.0	29,796	77.0	94	33	1.4
Winfield United	Croplan 5370 VT2P	134.6	14.6	57.8	29,796	77.2	92	31	1.6
Local Seed	LC 1987 VT2P	133	15.6	59.2	32,671	76.0	88	31	2.0
DEKALB	DKC 64-35	132.5	14.9	59.2	27,705	76.8	91	32	1.4
Syngenta	NK 1573	132.3	13.8	56.6	33,978	75.8	93	32	1.4
DEKALB	DKC 66-75	128.4	14.7	59.5	36,592	76.8	88	32	1.6
Simplot	Legend LR97TX14	128.1	14.4	57.3	34,762	75.8	90	33	1.4
Armor	Armor 1447	127.7	14.6	58.3	31,887	73.8	89	30	1.4
Local Seed	LC 1878 VT2P	126.9	15.6	58.0	31,103	78.2	92	35	2.0
Mission Seed	MEX 1308 VT2P	126.5	14.2	57.5	31,103	73.0	86	32	1.6
BH Genetics	BH 8735 VTTP	126.3	15.2	58.0	32,671	77.4	101	36	1.6
Simplot	Legend LR98T13	125.9	14.5	57.6	33,978	75.6	86	32	1.4
Pioneer	P 1366 YHR	124.2	13.9	58.0	33,194	74.6	95	36	1.6
Dyna-Gro	D 54VC14	123.5	14.1	57.7	26,921	75.0	85	28	1.8
Local Seed	LC 1577 VT2P	122.9	14.5	58.0	36,853	76.0	88	29	1.8
Simplot	Legend LR98T14	122.1	14.1	57.9	35,808	72.4	85	30	1.2
Mission Seed	MEX 1508 DGVT2P	121.9	14.4	56.2	33,717	74.2	93	33	1.8

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DEKALB	DKC 68-26	121	14.4	57.9	33,717	75.6	90	33	1.6
Dyna-Gro	D 52VC63	119.9	14.4	57.3	32,410	76.4	86	30	1.6
Simplot	Legend LR97TX16	119.3	15.4	56.2	34,501	74.8	86	31	1.4
BH Genetics	BH 8737 VT2P	116.3	14.5	58.5	27,967	73.4	90	33	1.0
Augusta Seed	Augusta 4465	116	14.1	56.3	31,626	76.6	92	30	1.4
Armor	Armor X8117	108.2	14.5	61.3	28,751	76.6	83	30	1.2
Winfield United	Croplan 5678 VT2P	103.3	14.4	58.9	36,592	76.4	90	28	1.4
Dyna-Gro	D 58VC65	103.2	14.8	58.3	33,455	76.8	87	29	1.4
Average		137.5	14.8	58.1	32,492	75.9	93	33.43	1.63
CV, %		9.77	3.46	1.97	15.4	2.27	4.42	10.67	28.49
LSD (0.10)		14.05	0.536	1.197	5,228	1.8	4.31	3.73	0.48

Numbers shaded within a column are not significantly different from the numerically greatest value.

[1]Yield adjusted to 15.5%.

[2]GM-harvest grain moisture; MS-mid silk; PH-plant height; EH-ear height, HC-husk cover.

[3]Husk cover ratings-1=closed and 3=open husk.

NS=Statistically non-significant at the 0.10 probability level.

Corn Hybrid Performance Trial, Northeast Research Station, St. Joseph (Silt Loam Soil)

Crop Summary

Cool temperatures were experienced during March and April with soil moisture being adequate. During the months of May and June, rainfall was below normal, and temperatures were above normal (see graph below). Grain yields ranged from 215.2 to 269.4 bushels per acre with a trial average of 242.6 bushels per acre in this irrigated trial (Table 7). Excellent yields were produced at this location. There were four hybrids that fell within the high-yielding group for 2018. Other agronomic data are presented in Table 7.

Soil type:	Commerce silt loam	**Preplant fertilizer:**	0-120-120 (3/14/18)
Soil pH:		**Post-plant fertilizer:**	240-0-0-43 (5/2/18)
Tillage	Conventional	**Herbicide applications:**	Pre-emerge: Atrazine + Dual II Magnum (3/24/18)
Previous crop:	Cotton	**Herbicide applications:**	Post-emerge: R-Up Power Max + Harness Max (5/9/18)
Row width:	40"	**Harvest date:**	Aug. 17, 2018
Seeding rate:	36,000	**Harvested plot size:**	2 rows by 35 feet
Planting date:	March 23, 2018	**Experimental design:**	RCBD
Irrigation:	Yes	**Replications:**	4

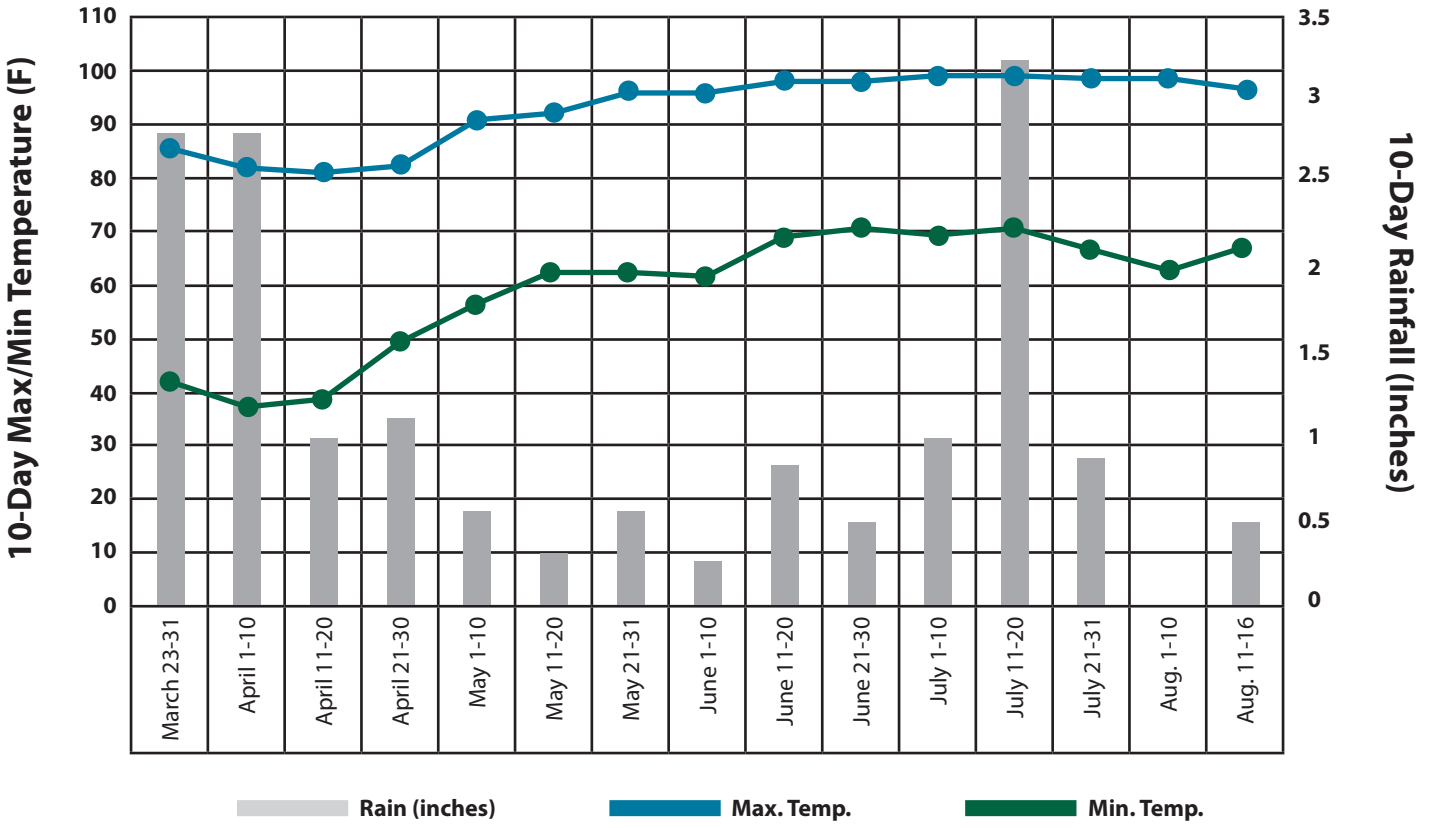

Table 7. Performance of corn hybrids, St. Joseph silt loam, 2018.

Company	Hybrid	Yield[1]	GM[2]	Test wt	Stand	MS[2]	PH[2]	EH[2]	HC[2,3]
		bu/a	%	lb/bu	plt/a	DAP	in.	in.	1-3
DEKALB	DKC 67-44	269.4	17.7	59.9	35,512	71	102	50	1
Pioneer	P 1870 YHR	268.1	18.6	59.3	32,572	71	103	51	1
Terral Seed	REV 28BHR18	267.5	19.0	58.4	38,126	72	105	55	1.8
Local Seed	AV 8614 VYHR	259.4	17.5	58.4	36,492	71	98	46	1.3
DEKALB	DKC 70-27	255.8	18.0	59.3	35,512	71	99	49	1.3
Simplot	Legend LR98T14	254.9	15.9	59.9	39,853	68	97	47	1
Terral Seed	REV 27BHR79	254.7	17.8	59.9	33,879	71	105	52	1.5
Terral Seed	REV 25BHR89	254.5	16.4	59.2	36,819	70	100	51	2
Mission Seed	MEX 1508 DGVT2P	254.1	16.6	59.1	33,226	68	102	50	1.3
BH Genetics	BH 8721 VT2P	253.9	16.5	59.8	38,779	69	102	50	1.8
Terral Seed	REV 25R27	253.4	15.8	60.2	39,106	70	102	46	2.3
Local Seed	LC 1577 VT2P	252.4	16.4	58.6	35,186	70	95	46	2
Terral Seed	REV 25BHR26	252.4	16.1	58.6	36,493	71	106	54	2
Winfield United	Croplan 5370 VT2P	250	16.8	59.3	33,552	71	104	48	1.5
Mycogen	MY 16M16	249.4	17.3	58.7	38,780	71	100	50	1.3
Local Seed	LC 1878 VT2P	248.7	17.0	60.1	35,185	72	99	49	1
Augusta Seed	Augusta 1367	248.6	19.7	55.4	36,166	70	102	50	1.3
Syngenta	NK 1584	248.2	18.0	56.6	37,799	70	99	51	1.3

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Dyna-Gro	D 54VC14	247.8	15.6	59.8	31,592	67	95	45	1.8
Dyna-Gro	D 58VC65	246.7	16.6	59.1	38,137	70	94	45	1.5
DEKALB	DKC 68-26	245	16.4	58.8	35,512	69	96	46	1.5
Simplot	Legend LR97TX14	244.8	16.7	58.1	39,106	69	95	44	1
Mission Seed	A 1857 SS	244.3	16.8	60.5	32,572	72	97	47	1
DEKALB	DKC 66-75	243.6	16.5	58.7	36,819	71	101	50	1.8
Armor	Armor X8117	243.3	16.7	59.6	35,512	69	93	43	1.3
DEKALB	DKC 69-16	242.9	16.6	59.9	38,779	72	97	48	1.3
Dyna-Gro	D 55VC45	242	16.5	59.3	31,919	70	101	49	2
DEKALB	DKC 65-95	242	17.4	59.9	38,982	69	98	47	1.8
Terral Seed	REV 24BHR99	241	16.7	58.6	36,492	72	99	49	1
Dyna-Gro	D 57VC51	240	16.5	59.5	30,938	71	99	45	1.8
DEKALB	DKC 68-69	239.8	17.5	60.3	37,799	71	98	45	1
Dyna-Gro	CX 17117	239	17.3	60.1	34,532	72	100	50	1
Armor	Armor 1667	239	17.0	60.3	33,226	71	102	50	1
DEKALB	DKC 64-35	238.9	16.2	60.1	35,185	70	101	47	1.8
Armor	Armor 1887	238.1	17.6	59.7	35,839	71	104	51	1.3
Terral Seed	REV 23BHR55	237.7	16.0	58.2	34,859	70	104	50	1.8
Winfield United	Croplan 5678 VT2P	236.1	17.0	58.9	34,205	70	91	44	1
BH Genetics	BH 8737 VT2P	236.1	15.6	59.4	31,592	68	96	45	1
Armor	Armor 1447	235.4	15.9	59.8	33,552	67	93	42	1.5
Augusta Seed	Augusta 5065	235	18.0	58.7	30,938	71	106	52	1
Dyna-Gro	D 52VC63	232.5	16.2	59.3	34,532	69	98	45	1.3
Local Seed	LC 1987 VT2P	231.9	17.5	60.5	33,552	72	99	48	1.8
Winfield United	Croplan 5789	231.4	17.7	60.5	33,552	70	97	46	1.5
Local Seed	RL 8430 VYHR	231	16.0	57.2	36,166	71	103	48	2.3
Simplot	Legend LR98T13	229.2	15.6	59.9	35,512	67	97	49	1
Simplot	Legend LR97TX16	226.9	16.4	58.3	35,839	67	95	48	1
Pioneer	P 1366 YHR	224.1	15.8	58.7	33,879	70	91	44	1.8
BH Genetics	BH 8735 VTTP	222.8	16.7	59.3	33,879	70	100	51	1
Syngenta	NK 1573	219.2	16.2	57.3	38,453	69	99	44	1
Mission Seed	MEX 1308 VT2P	216.8	15.8	59.7	38,453	67	95	43	1
Augusta Seed	Augusta 4465	215.2	15.5	57.1	34,532	69	97	42	1.3
Average		242.6	16.8	59.1	35,447	69.96	99	47.74	1.39
CV, %		4.47	3.14	1.2	11.26	1.28	4.36	6.34	32.77
LSD (0.10)		12.7	0.6185	0.828	4,673	1.05	5.054	3.545	0.53

Numbers shaded within a column are not significantly different from the numerically greatest value.

[1]Yield adjusted to 15.5%.

[2]GM-harvest grain moisture; MS-mid silk; PH-plant height; EH-ear height, HC-husk cover.

[3]Husk cover ratings-1=closed and 3=open husk.

NS=Statistically nonsignificant at the 0.10 probability level.

Corn Hybrid Performance Trial, Northeast Research Station, St. Joseph (Clay Soil)

Crop Summary

Cool temperatures were experienced during March and April with soil moisture being adequate. During the months of May and June, rainfall was below normal, and temperatures were above normal (see graph below). Grain yields ranged from 184.4 to 270 bushels per acre with a trial average of 225.6 bushels per acre in this irrigated trial (Table 8). There were two hybrids that fell within the high-yielding group for 2018. Other agronomic data are presented in Table 8.

Soil type:	Sharkey clay	**Preplant fertilizer:**	0-60-60 (3/23/18)
Soil pH:		**Post-plant fertilizer:**	280-0-0-50 (5/2/18)
Tillage	Stale seedbed	**Herbicide applications:**	Pre-emerge: Atrazine + Dual II Magnum (3/24/18)
Previous crop:	Cotton	**Herbicide applications:**	Post-emerge: R-Up Power Max + Harness Max (5/9/18)
Row width:	40"	**Harvest date:**	Aug. 16, 2018
Seeding rate:	36,000	**Harvested plot size:**	2 rows by 35 feet
Planting date:	March 23, 2018	**Experimental design:**	RCBD
Irrigation:	Yes	**Replications:**	4

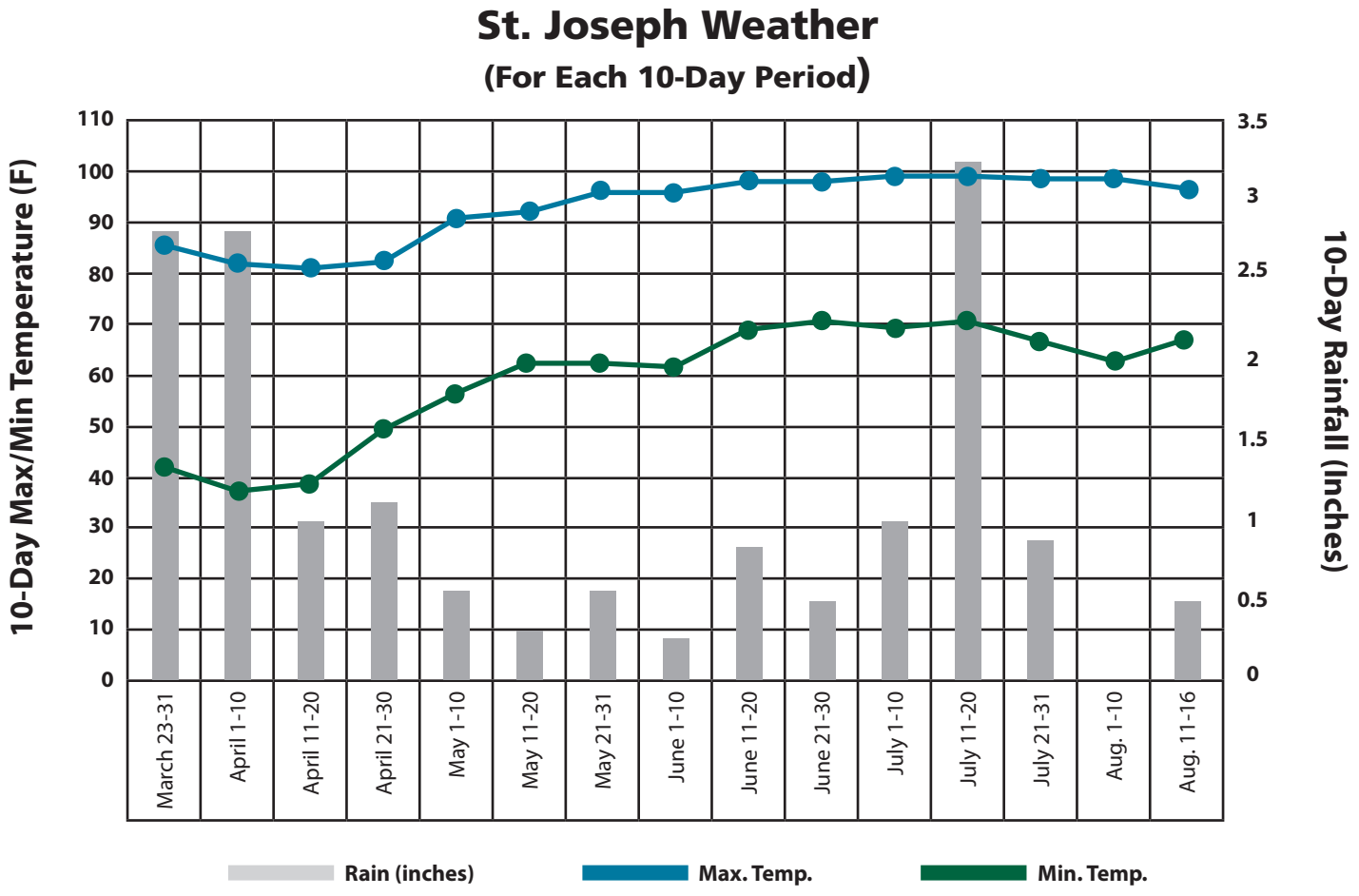

Table 8. Performance of corn hybrids, St. Joseph clay, 2018.									
Company	**Hybrid**	**Yield[1]**	**GM[2]**	**Test wt**	**Stand**	**MS[2]**	**PH[2]**	**EH[2]**	**HC[2,3]**
		bu/a	**%**	**lb/bu**	**plt/a**	**DAP**	**in.**	**in.**	**1-3**
Terral Seed	REV 28BHR18	270	16.2	58.1	32,899	72.3	103	42	2.0
Terral Seed	REV 27BHR79	256.3	16.1	59.6	34,859	70.3	121	42	1.5
Terral Seed	REV 25BHR89	251.4	15.9	58.2	30,939	69.8	98	42	2.0
Pioneer	P 1870 YHR	248.7	16.6	58.9	33,552	70.5	87	39	1.5
BH Genetics	BH 8721 VT2P	242.5	16.1	58.8	32,899	69.3	96	43	1.8
Terral Seed	REV 24BHR99	242.2	15.9	57.9	35,186	71.0	94	42	1.5
Terral Seed	REV 25BHR26	239.2	14.8	60.1	35,186	70.0	95	41	1.5
Mission Seed	MEX 1508 DGVT2P	238.3	16.3	57.1	33,879	69.0	93	43	1.8
Dyna-Gro	D 57VC51	237.7	16.1	58.0	30,285	70.5	90	41	1.3
Local Seed	LC 1878 VT2P	235.5	16.5	60.2	32,899	70.5	112	42	1.8
DEKALB	DKC 68-69	235.3	17.1	59.3	34,532	70.3	96	43	1.0
Augusta Seed	Augusta 1367	235	17.2	57.1	32,899	70.5	95	44	1.0
DEKALB	DKC 70-27	234.5	17.1	59.2	34,205	70.0	95	40	1.3
Mycogen	MY 16M16	234.4	15.8	57.9	35,512	70.3	106	42	1.8
Simplot	Legend LR98T14	234.3	15.0	59.4	37,473	66.5	90	40	1.5
Local Seed	AV 8614 VYHR	234.3	16.4	58.0	30,612	70.3	94	40	1.5
Terral Seed	REV 23BHR55	233.7	15.0	57.8	31,592	69.3	95	42	1.0
DEKALB	DKC 66-75	232.3	15.9	58.6	38,780	70.0	93	43	1.3
Augusta Seed	Augusta 5065	231.7	16.6	58.8	31,919	70.8	99	41	1.3
DEKALB	DKC 67-44	230.5	16.0	59.9	35,512	69.3	93	41	1.3
DEKALB	DKC 68-26	230.3	16.2	58.7	29,632	69.0	91	41	1.5
DEKALB	DKC 69-16	229.5	15.5	59.2	31,919	70.5	118	40	1.5
Simplot	Legend LR97TX14	229.2	16.3	57.4	33,879	68.3	87	40	1.5
Local Seed	LC 1987 VT2P	229	16.7	58.7	32,572	71.0	95	42	1.0
BH Genetics	BH 8737 VT2P	228	15.0	58.5	32,899	66.3	94	41	1.8
Armor	Armor 1887	227.3	16.5	58.5	35,512	70.0	100	42	1.8
Dyna-Gro	D 58VC65	227.1	15.6	58.6	29,632	69.5	113	39	1.0
Local Seed	RL 8430 VYHR	227.1	15.1	57.1	35,513	69.8	100	44	1.3
Winfield United	Croplan 5678 VT2P	226	15.6	59.2	31,592	69.3	89	41	1.3
DEKALB	DKC 65-95	225.9	15.7	61.3	36,493	69.5	91	42	1.3
Winfield United	Croplan 5370 VT2P	225.9	15.2	59.0	31,919	70.3	92	42	1.0
Local Seed	LC 1577 VT2P	225.1	15.3	58.9	35,839	68.8	88	41	1.3
Dyna-Gro	CX 17117	224.6	15.4	60.0	34,859	70.8	93	42	1.5
Mission Seed	A 1857 SS	221.5	16.3	59.0	34,532	70.8	92	43	1.0
Terral Seed	REV 25R27	221	15.0	58.8	29,958	68.5	92	40	1.5
Armor	Armor 1667	218.3	16.6	58.7	35,186	70.8	92	42	1.5
Dyna-Gro	D 52VC63	215.6	15.8	58.6	33,552	67.8	91	40	1.5
Syngenta	NK 1584	215.2	16.3	56.1	33,879	70.0	102	42	1.8
Dyna-Gro	D 55VC45	214.9	15.8	58.2	32,245	70.3	92	40	1.3
BH Genetics	BH 8735 VTTP	213.7	16.2	58.9	33,879	70.3	99	42	1.5
Dyna-Gro	D 54VC14	213.1	15.5	58.7	33,225	66.8	90	39	1.0
Armor	Armor X8117	212.5	14.9	58.9	31,265	68.3	91	41	2.0

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DEKALB	DKC 64-35	209	14.9	59.8	31,592	69.5	92	41	1.3
Armor	Armor 1447	208.9	15.1	58.3	31,592	67.3	90	40	1.0
Winfield United	Croplan 5789	207.9	16.2	58.7	32,572	70.3	88	41	1.8
Pioneer	P 1366 YHR	206.9	15.7	59.1	35,839	70.0	89	41	1.8
Simplot	Legend LR97TX16	204.2	15.6	59.0	31,592	66.8	87	40	1.0
Syngenta	NK 1573	200.8	15.3	57.6	36,819	68.5	91	39	1.0
Augusta Seed	Augusta 4465	193.1	14.5	56.9	30,285	68.0	94	38	1.5
Simplot	Legend LR98T13	189.4	15.6	58.8	35,186	66.5	88	41	1.0
Mission Seed	MEX 1308 VT2P	184.4	14.8	59.4	33,879	66.8	88	39	1.0
Average		225.6	15.82	58.7	33,430	69.4	95	41.2	1.39
CV, %		5.31	4.37	1.46	11.86	1	13.09	4.91	34.24
LSD (0.10)		14.01	0.809	1.003	NS	0.82	14.54	2.363	0.56

Numbers shaded within a column are not significantly different from the numerically greatest value.

[1]Yield adjusted to 15.5%.

[2]GM-harvest grain moisture; MS-mid silk; PH-plant height; EH-ear height, HC-husk cover.

[3]Husk cover ratings-1=closed and 3=open husk.

NS=Statistically nonsignificant at the 0.10 probability level.

Corn Hybrid Performance Trial, Macon Ridge Research Station, Winnsboro

Crop Summary

Cool temperatures were experienced during March and April, with soil moisture being adequate. During the months of May and June, rainfall was below normal, and temperatures were above normal (see graph below). Grain yields ranged from 169.6.4 to 204.1 bushels per acre with a trial average of 189.7 bushels per acre in this irrigated trial (Table 9). There were 22 hybrids that fell within the high-yielding group for 2018. Other agronomic data are presented in Table 9.

Winnsboro Weather

(For Each 10-Day Period)

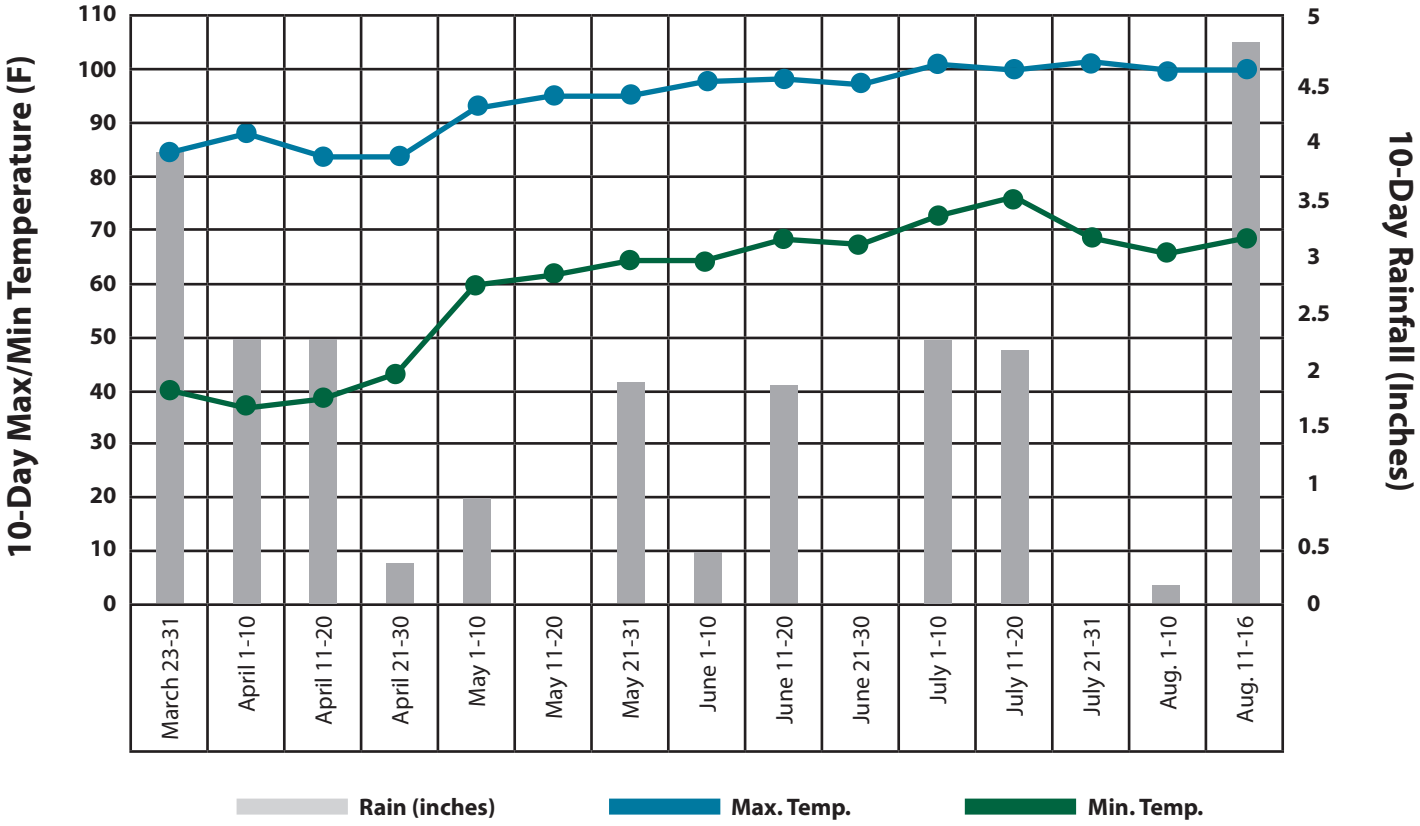

Table 9. Performance of corn hybrids, Winnsboro, 2018.										
Company	**Hybrid**	**Yield[1]**	**GM[2]**	**Test wt**	**Stand**	**MS[2]**	**PH[2]**	**EH[2]**	**HC[2,3]**	**Smut**
		bu/a	**%**	**lb/bu**	**plt/a**	**DAP**	**in.**	**in.**	**1-3**	**%**
Local Seed	AV 8614 VYHR	204.1	15.5	57.3	28,587	72.5	104	50	3.0	2.5
Simplot	Legend LR98T14	201.5	14.9	58.6	30,273	71.0	85	41	1.0	0.0
Mission Seed	MEX 1508 DGVT2P	200.4	14.8	57.2	32,091	70.5	97	47	2.0	0.0
Terral Seed	REV 28BHR18	198.8	15.6	58.8	27,704	74.5	102	54	2.5	2.5
Pioneer	P 1870 YHR	198.8	16.2	58.6	27,848	72.5	98	47	2.0	0.0
Dyna-Gro	D 58VC65	198.7	14.6	58.3	32,306	71.5	89	41	2.5	10.0
DEKALB	DKC 68-26	198.4	14.9	58.2	30,575	72.5	96	46	2.0	0.0
Dyna-Gro	D 57VC51	198	15.5	58.6	26,665	73.0	93	43	2.5	10.0
DEKALB	DKC 69-16	197.7	15.3	58.1	26,936	73.0	99	50	2.5	10.0
BH Genetics	BH 8721 VT2P	197.7	15.2	59.5	32,582	72.5	87	46	2.5	0.0
Armor	Armor 1447	197.5	14.3	58.3	28,668	70.5	85	39	1.5	0.0
Terral Seed	REV 27BHR79	197.1	15.5	59.3	31,374	74.5	106	49	2.0	0.0
BH Genetics	BH 8737 VT2P	196	14.9	58.5	32,210	71.0	83	41	1.0	0.0
Dyna-Gro	D 54VC14	195.1	14.8	58.2	32,620	72.5	92	41	2.0	7.5
Armor	Armor X8117	194.6	15.0	58.5	29,705	72.0	84	41	1.0	0.0
Augusta Seed	Augusta 1367	193.8	16.1	55.9	28,039	72.5	104	51	2.5	5.0
DEKALB	DKC 67-44	193.6	15.8	58.0	27,631	71.5	94	49	2.0	10.0
Local Seed	LC 1577 VT2P	193.4	14.7	58.0	26,652	71.0	94	47	3.0	2.5
Winfield United	Croplan 5678 VT2P	193.3	15.1	58.1	28,832	73.0	85	42	2.0	0.0
Augusta Seed	Augusta 5065	193.1	15.5	58.9	31,692	74.5	101	49	2.5	2.5
Syngenta	NK 1573	192.3	14.9	55.9	32,201	73.0	90	41	1.0	0.0
Mycogen	MY 16M16	192.3	15.6	57.8	33,623	73.5	104	57	1.5	2.5
Syngenta	NK 1584	191.8	15.7	55.3	28,708	72.0	102	51	2.5	10.0
Terral Seed	REV 24BHR99	191.7	14.7	58.0	28,440	72.5	107	57	2.0	2.5
Terral Seed	REV 23BHR55	191.3	15.1	56.6	33,372	72.5	97	45	2.5	0.0
Local Seed	RL 8430 VYHR	191.1	14.7	55.8	29,351	72.5	102	47	2.0	0.0
Terral Seed	REV 25BHR89	190.4	15.0	57.8	26,451	73.0	101	49	3.0	10.0
DEKALB	DKC 65-95	189.4	16.0	54.1	27,546	71.5	98	51	3.0	2.5
Simplot	Legend LR97TX14	188.5	14.9	57.3	27,945	71.5	90	41	1.5	0.0
Terral Seed	REV 25BHR26	188.5	14.4	59.4	29,830	72.0	105	52	2.0	12.5
Terral Seed	REV 25R27	188.5	14.5	58.5	27,122	72.5	97	41	2.5	5.0
DEKALB	DKC 70-27	188.5	15.8	57.9	28,785	73.0	95	46	2.0	12.5
DEKALB	DKC 68-69	188.1	16.2	59.2	32,346	73.5	100	51	1.0	7.5
Dyna-Gro	D 55VC45	188.1	15.3	57.9	31,711	72.0	93	49	2.0	7.5
DEKALB	DKC 64-35	187.3	14.9	56.9	27,193	71.5	94	43	2.5	2.5
DEKALB	DKC 66-75	186.3	14.8	56.3	27,690	73.0	94	52	2.5	0.0
Simplot	Legend LR97TX16	185.6	15.5	57.1	33,825	68.5	90	45	2.5	5.0
BH Genetics	BH 8735 VTTP	184.9	15.4	57.7	30,688	73.0	104	53	2.0	2.5
Simplot	Legend LR98T13	184.3	14.7	59.0	30,362	70.0	89	46	1.0	7.5
Winfield United	Croplan 5789	183	15.7	56.1	32,198	73.0	99	46	1.0	12.5
Dyna-Gro	D 52VC63	182.8	15.0	56.2	34,811	72.0	96	43	2.0	15.0
Dyna-Gro	CX 17117	182	15.2	59.3	33,546	74.5	93	46	1.0	20.0
Local Seed	LC 1878 VT2P	180.5	15.2	58.9	30,590	74.0	97	48	1.5	20.0

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Mission Seed	A 1857 SS	180.4	14.7	57.1	28,053	72.0	93	47	2.0	5.0
Winfield United	Croplan 5370 VT2P	180	15.0	55.9	33,127	73.0	97	46	2.5	17.5
Mission Seed	MEX 1308 VT2P	179.3	14.6	58.9	29,946	68.0	87	41	2.0	2.5
Augusta Seed	Augusta 4465	179.2	14.6	55.6	33,295	72.5	89	41	1.0	0.0
Local Seed	LC 1987 VT2P	178.3	15.9	58.3	29,697	74.0	93	44	2.0	22.5
Pioneer	P 1366 YHR	178.1	14.3	56.6	27,255	72.0	90	44	3.0	12.5
Armor	Armor 1887	171.1	16.0	56.2	26,544	72.5	93	48	1.5	17.5
Armor	Armor 1667	169.6	15.7	58.2	26,199	74.5	92	48	2.0	12.5
Average		189.7	15.173	57.6	29,910	72.3	95	46.3	2.01	6.08
CV, %		6.15	1.3	1.29	11.13	1.34	5.29	9.97	29.43	122.28
LSD (0.10)		12.19	0.207	1.25	NS	1.63	8.42	7.72	0.99	12.46

Numbers shaded within a column are not significantly different from the numerically greatest value.

[1]Yield adjusted to 15.5%.

[2]GM-harvest grain moisture; MS-mid silk; PH-plant height; EH-ear height, HC-husk cover.

[3]Husk cover ratings-1=closed and 3=open husk.

NS=Statistically nonsignificant at the 0.10 probability level.

Table 10. Seed traits and maturity for corn hybrids entered in the 2018 LSU AgCenter official hybrid trials.

Company	Hybrid	Insect/herbicide traits	Seed treatment	Days to maturity
Armor	1447	PRO2	Poncho 1250	114
Armor	1667	PRO2	Poncho 1250	116
Armor	X8117	PRO2	Poncho 1250	117
Armor	1887	PRO2	Poncho 1250	118
Augusta	1367	Viptera 3220 EZ	Cruiser 1250	117
Augusta	5065	Viptera 3111	Cruiser 1250	115
Augusta	4465	Viptera 3110	Cruiser 1250	116
BH Genetics	BH 8721 VT2P	GenuityVT2P	Poncho 500 + Votivo	117
BH Genetics	BH 8737 VT2P	GenuityVT2P	Poncho 500 + Votivo	117
BH Genetics	BH 8735 VTTP	GenuityVT3P	Poncho 500 + Votivo	117
DEKALB	DKC 67-44	GENVT2P	Acceleron 1250	117
DEKALB	DKC 68-69	GENVT2P	Acceleron 1250	118
DEKALB	DKC 69-16	GENSS	Acceleron 1250	119
DEKALB	DKC 68-26	GENVT2P	Acceleron 250	118
DEKALB	DKC 70-27	GENVT2P	Acceleron 1250	120
DEKALB	DKC 65-95	GENVT2P	Acceleron 1250	115
DEKALB	DKC 66-75	GENVT2P	Acceleron 250	116
DEKALB	DKC 64-35	GENVT2P	Acceleron 250	114
Dyna-Gro	D 57VC51	VT Double Pro	Poncho 500	117
Dyna-Gro	D 55VC45	VT Double Pro	Poncho 500	115
Dyna-Gro	D 54VC14	VT Double Pro	Poncho 500	114
Dyna-Gro	CX 17117	VT Double Pro	Poncho 500	117

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Dyna-Gro	D 58VC65	VT Double Pro	Poncho 500	118
Dyna-Gro	D 52VC63	VT Double Pro	Poncho 500	112
Local Seed	AV 8614 VYHR	HX1/YGCB/RR/LL/Vip	Cruiser Maxx 250	114
Local Seed	RL 8430 VYHR	HX1/YGCB/RR/LL/Vip	Cruiser Maxx 250	113
Local Seed	LC 1577 VT2P	VT2P/RR	Cruiser Maxx 250	115
Local Seed	LC 1878 VT2P	VT2P/RR	Cruiser Maxx 250	118
Local Seed	LC 1987 VT2P	VT2P/RR	Cruiser Maxx 250	119
Mission Seed	MEX 1508 DGVT2P	RR/VT2P/DG	Acceleron 250	115
Mission Seed	A 1857 SS	RR/SS	Poncho 500	118
Mission Seed	MEX 1308 VT2P	RR/VT2P	Acceleron 250	113
Pioneer	P 1870 YHR	RR/LL/YG/HX1	Poncho 1250 + Votivo	118
Pioneer	P 1366 YHR	RR/LL/YG/HX1	Poncho 1250 + Votivo	113
Simplot	Legend LR98T14	RR/VT2Pro	Poncho 1250	114
Simplot	Legend LR97TX14	RR/VT2Pro	Poncho 1250	114
Simplot	Legend LR97TX16	RR/VT2Pro	Poncho 1250	116
Simplot	Legend LR98T13	RR/VT2Pro	Poncho 1250	113
Syngenta	NK 1584	3000GT	Avicta 500	115
Syngenta	NK 1573	Viptera 3110	Avicta 500	115
Terral	REV 28BHR18	HX1/LL/RR2/YGCB	Poncho 1250 + Votivo + Raxil	118
Terral	REV 27BHR79	HX1/LL/RR2/YGCB	Poncho 1250 + Votivo + Raxil	117
Terral	REV 25BHR89	HX1/LL/RR2/YGCB	Poncho 1250 + Votivo + Raxil	115
Terral	REV 24BHR99	HX1/LL/RR2/YGCB	Poncho 1250 + Votivo + Raxil	114
Terral	REV 25BHR26	HX1/LL/RR2/YGCB	Poncho 1250 + Votivo + Raxil	115
Terral	REV 2616PWE	PowerCore Enlist	Cruiser Maxx 1250	116
Terral	REV 23BHR55	HX1/LL/RR2/YG	Poncho 1250 + Votivo + Raxil	113
Terral	REV 25R27	RR2	Poncho 1250 + Votivo + Raxil	115
Winfield United	Croplan 5370 VT2P	VT2P	Acceleron 250	113
Winfield United	Croplan 5678 VT2P	VT2P	Acceleron 250	116
Winfield United	Croplan 5789	VT2P	Acceleron 250	117

Table 11. List of participating seed companies and corn hybrids, 2018.		
Company	**Contact**	**Hybrid**
Armor	Chris Ouzts chrisouzts@armorseed.com 662-719-3157	Armor 1447 Armor 1667 Armor X8117 Armor 1887
Augusta Seed	Matthew Rawley matt.rawley@augustaseed.com 540-886-6055	Augusta 1367 Augusta 5065 Augusta 4465
BH Genetics	Travis Janak travisj@bhgenetics.com 361-771-8722	BH 8721 VT2P BH 8737 VT2P BH 8735 VTTP
DEKALB	Blake Edwards blake.edwards@monsanto.com 662-820-6804	DKC 67-44 DKC 68-69 DKC 69-16 DKC 68-26 DKC 70-27 DKC 65-95 DKC 66-75 DKC 64-35
Dyna-Gro	Joe Pankey joe.pankey@nutrien.com 318-381-3280	D 57VC51 D 55VC45 D 54VC14 CX 17117 D 58VC65 D 52VC63
Local Seed	Doug Messersmith doug.messersmith@localseed.com 570-419-3692	AV 8614 VYHR RL 8430 VYHR LC 1577 VT2P LC 1878 VT2P LC 1987 VT2P
Mission Seed	Will Scott will.scott@pinnacleag.com 662-822-9926	MEX 1508 DGVT2P A 1857 SS MEX 1308 VT2P
Pioneer	George Stabler george.stabler@pioneer.com 803-308-1003	P 1870 YHR P 1366 YHR
Simplot	Max Crittenden max.crittenden@simplot.com 254-652-0032	Legend LR98T14 Legend LR97TX14 Legend LR97TX16 Legend LR98T13
Syngenta	Chuck Leonard chuck.leonard@syngenta.com 270-519-9600	NK 1584 NK 1573

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Terral	Marty Hale mhale@terralseed.com 318-341-8814	REV 28BHR18 REV 27BHR79 REV 25BHR89 REV 24BHR99 REV 25BHR26 REV 2616PWE REV 23BHR55 REV 25R27
Winfield United	Corey Wright cdwright@landolakes.com 318-498-9141	Croplan 5370 VT2P Croplan 5678 VT2P Croplan 5789

LOUISIANA CORN FOR GRAIN HYBRID TRIALS 2018

Dan D. Fromme,
Associate Professor and State Corn Specialist,
Dean Lee Research and Extension Center,
Alexandria, La.

H.J. "Rick" Mascagni Jr.,
Professor and Research Agronomist,
Northeast Research Station,
St. Joseph, La.

Josh Copes,
Assistant Professor and Research Agronomist,
Northeast Research Station,
St. Joseph, La.

Blair Buckley,
Associate Professor and Research Agronomist,
Red River Research Station,
Bossier City, La.

Bill Waltman,
Farm Manager,
Red River Research Station,
Bossier City, La.

Boyd Padgett
Professor and Plant Pathologist
Dean Lee Research and Extension Center
Alexandria, La.

Trey Price
Assistant Professor and Plant Pathologist
Macon Ridge Research Station
Winnsboro, La.

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William B. Richardson, LSU Vice President for Agriculture
Louisiana State University Agricultural Center
Louisiana Agricultural Experiment Station
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