

Louisiana Corn for Grain

Hybrid Trials 2019

**LAES Research
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CORN HYBRID TEST LOCATIONS

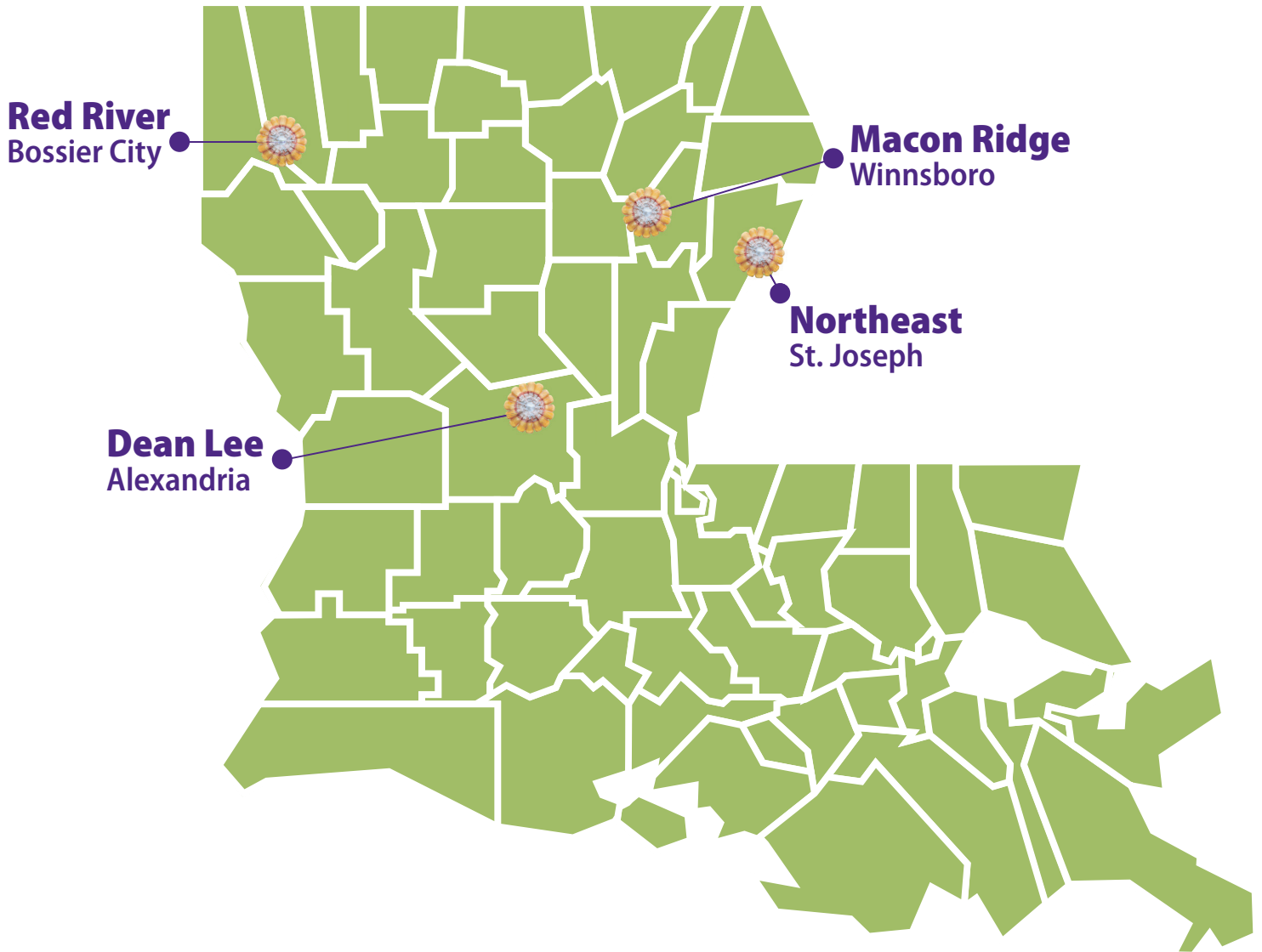


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Introduction

The performance of corn hybrids is evaluated annually 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 2019, 54 corn hybrids were entered by commercial seed companies. Locations of these trials included the Dean Lee Research and Extension Center, Alexandria; Red River Research Station, Bossier City; Northeast Research Station, St. Joseph; and Macon Ridge Research Station, Winnsboro (Table 1).

Table 1. Summary of corn hybrid trials by location, 2019.

Location	Soil type	Irrigation	Row Spacing	Planting Date	Harvest Date
Alexandria	Coushatta silt loam	Nonirrigated	38"	3/19	8/14
Bossier City	Caplis very fine sandy loam	Nonirrigated	40"	3/21	8/30
St. Joseph	Commerce silt loam	Furrow	40"	3/20	8/22
St. Joseph	Sharkey clay	Furrow	40"	4/11	8/30
Winnsboro	Gigger silt loam	Furrow	40"	3/20	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 than other growers located in their 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, 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 be 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 experiment 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. Analyses of variance and least significant differences (LSD) were calculated only if differences existed at the 90% confidence level. If differences were significant, an LSD at the 10% probability level was calculated. If the LSD (0.10) for yield in a trial is 10 bushels per acre, there is a 10% chance that two hybrids with a reported yield difference of 10 bushels per acre are genetically equal and a 90% probability they have differences 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% 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 2019 across locations and for two- and three-year averages across locations are summarized in Tables 3, 4 and 5. To be considered for a two- or three-year average, hybrids must have the same seed traits each year (refer to Table 11).

For each individual location, a summary of cultural practices, growing conditions, temperatures and rainfall is listed prior to the yield and agronomic data (Tables 6 to 10). Seed traits and

hybrid maturities are listed in Table 11 and a description for these traits is listed in Table 12. Participating seed companies and contact information can be found in Table 13.

Table 2. Corn performance variables measured for the LSU AgCenter Official Variety Trials, 2019.

Trait	Abbreviation	Description
Yield	YLD	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

Table 3. Summary of yield performance of corn hybrids across five locations in the LSU AgCenter official hybrid trials, 2019.

Brand	Hybrid	Alex ¹	BC	SJ-sl	SJ-c	WN	AVG
Dyna-Gro	D55VC80	231.6		266.2	216.3		238.0
LG Seeds	LG68C22VT2PRO	235.6	145.9	261.2	223.6	208.4	214.9
Dekalb	DKC 68-69	245.2	129.4	262.2	206.8	216.7	212.1
Terral/Rev	24BHR99	220.2	154.1	264.5	212.7	207.8	211.9
Progeny	PGY 9117VT2P	233.8	124.9	271.4	206.4	220.3	211.4
Pioneer	P1464 VYHR	218.2	135.3	268.8	218.8	215.2	211.3
Dyna-Gro	D57VC51	247.4	121.0	272.7	205.9	207.9	211.0
Dekalb	DKC 70-27	223.6	110.4	274.4	218.0	227.3	210.7
Pioneer	P1870 YHR	217.0	132.1	275.7	198.8	225.1	209.7
Dyna-Gro	D57VC17	236.2	124.0	257.2	220.7	209.6	209.5
Armor	AX9115	217.2	124.5	267.2	219.2	218.2	209.3
Dekalb	DKC 65-95	209.6	135.6	270.2	217.8	211.8	209.0
Dekalb	DKC 67-44	217.4	121.8	259.2	224.3	222.0	208.9
Terral/Rev	28BHR18	228.8	137.8	265.8	196.4	214.4	208.6
Terral/Rev	26BHR30	217.8	137.1	260.6	204.5	222.0	208.4
Progeny	PGY 8116 SS	216.2	134.2	256.0	220.3	212.6	207.9
Armor	A1778	239.9	114.2	259.5	206.8	217.7	207.6
Armor	A1810	229.6	124.1	253.9	209.0	219.8	207.3
Augusta	A1367	231.0	129.1	262.3	189.7	223.3	207.1
Dekalb	DKC 66-75	228.2	131.7	253.2	202.9	215.6	206.3
LG Seeds	LG5650VT2RIB	221.2	138.2	249.6	211.0	210.7	206.1
Local Seed	AV8614YHB	205.0	127.6	270.7	202.0	222.3	205.5
Armor	A1447	234.6	120.8	254.6	204.8	211.8	205.3
Terral/Rev	25BHR89	219.2	116.1	264.4	210.8	216.1	205.3
BH	XP8511VT2P	227.4	115.4	270.0	209.2	195.3	203.5
Dyna-Gro	D52VC63	232.2	125.5	258.6	202.1	197.5	203.2

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Brand	Hybrid	Alex ¹	BC	SJ-sl	SJ-c	WN	AVG
BH	BH8721VT2P	233.6	122.6	256.0	183.7	218.4	202.9
Local Seed	LC1878VT2P	231.0	117.0	259.7	198.9	202.4	201.8
Dekalb	DKC 64-35	234.4	106.7	261.9	205.9	199.8	201.7
Local Seed	LC1577VT2P	217.8	141.9	254.7	190.1	200.2	200.9
BH	XP8780S5	216.0	111.2	257.8	210.1	207.6	200.5
Dekalb	DKC 66-18	215.2	123.1	256.6	203.4	203.5	200.4
Local Seed	LC1776VT2P	210.2	123.3	261.0	195.6	211.2	200.3
Armor	C5678	234.8	103.9	235.2	212.9	211.6	199.7
Dyna-Gro	D54VC14	231.6	125.6	242.8	196.2	201.2	199.5
Local Seed	LC1795VT2P	224.0	132.2	241.1	194.4	205.7	199.5
Augusta	A4565	225.6	126.3	243.8	191.1	209.9	199.3
LG Seeds	LG66C32VT2PRO	227.8	115.5	253.5	194.3	204.2	199.1
Local Seed	LC1987VT2P	197.6	117.4	254.0	209.4	210.7	197.8
Progeny	PGY 9114VT2P	226.4	121.3	260.7	172.5	206.6	197.5
Dekalb	DKC 62-53	228.6	103.0	245.6	202.0	205.7	197.0
Armor	AX9115B	235.2	108.4	244.6	201.0	188.7	195.6
Local Seed	LCX16-91	203.9	135.2	241.8	196.3	198.0	195.0
Local Seed	LC1289VT2P	218.2	130.0	229.9	197.3	199.7	195.0
LG Seeds	LG64C30TRC	206.2	139.0	241.0	196.5	190.8	194.7
Terral/Rev	24BHR70	187.8	107.7	270.2	196.2	207.0	193.8
Progeny	PGY 6119VT2P	213.0	120.6	250.4	192.2	192.5	193.7
Mission Seed	A1687VT2P	223.4	115.1	234.6	200.0	190.0	192.6
Progeny	PGY EXP1918	226.6	109.1	228.8	197.7	198.0	192.0
Local Seed	LC1488VT2P	229.4	113.0	241.4	188.9	185.9	191.7
Dyna-Gro	D58VC65	221.0	111.5	243.7	157.2	201.1	186.9
Local Seed	LC0877VT2P	193.8	123.0	239.3	172.8	182.8	182.3
Armor	A1688T	201.2	138.0	161.7	204.3	198.7	180.8
Local Seed	LC1586TC	208.2	126.8	172.1	187.9	195.2	178.0
Average		222.16	124.14	253.76	202	207.48	
CV, %		9.06	12.81	9.51	7.99	5.5	
LSD (0.10)		21.04	21.56	28.25	18.88	11.92	

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

¹Alex=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, 2018-2019.

Brand	Hybrid	Alex ¹	BC	SJ-sl	SJ-c	WN	Avg
Pioneer	P1870 YHR	199.7	149.0	271.9	223.8	211.9	211.2
Terral/Rev	28BHR18	194.2	151.2	266.7	233.2	206.6	210.4
Terral/Rev	24BHR99	199.0	154.3	252.8	227.5	199.7	206.6
Dekalb	DKC 68-69	207.2	141.3	251.0	221.1	202.4	204.6
Dyna-Gro	D57VC51	205.9	133.8	256.4	221.8	202.9	204.2
Dekalb	DKC 67-44	189.5	131.5	264.3	227.4	207.8	204.1
Terral/Rev	25BHR89	194.6	129.7	259.5	231.1	203.3	203.6
Dekalb	DKC 70-27	188.4	128.5	265.1	226.3	207.9	203.2

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Brand	Hybrid	Alex ¹	BC	SJ-sl	SJ-c	WN	Avg
Augusta	A1367	202.6	134.1	255.5	212.4	208.6	202.6
Dekalb	DKC 65-95	191.2	140.2	256.1	221.9	200.6	202.0
BH Genetics	BH8721VT2P	197.0	135.5	255.0	213.1	208.1	201.7
Dekalb	DKC 66-75	200.9	130.1	248.4	217.6	200.9	199.6
Armor	A1447	208.7	124.3	245.0	206.9	204.7	197.9
Local Seed	LC1878VT2P	197.8	122.0	254.2	217.2	191.5	196.5
Local Seed	LC1577VT2P	191.8	132.4	253.6	207.6	196.8	196.4
Dyna-Gro	D54VC14	203.9	124.6	245.3	204.7	198.1	195.3
Dekalb	DKC 64-35	196.8	119.6	250.4	207.5	193.6	193.6
Armor	C5678	202.6	103.6	235.7	219.5	202.4	192.7
Dyna-Gro	D52VC63	192.2	122.7	245.6	208.9	190.2	191.9
Local Seed	LC1987VT2P	170.6	125.2	243.0	219.2	194.5	190.5
Dyna-Gro	D58VC65	194.6	107.4	245.2	192.2	199.9	187.8
Augusta	A4565	191.9	121.2	229.5	192.1	194.5	185.8

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

Table 5. Three-year corn hybrid yield summary across locations, 2017-2019.

Brand	Hybrid	Alex ¹	BC	SJ-sl	SJ-c	WN	Avg
Pioneer	P1870 YHR	184.7	178.6	245.3	228.9	209.9	209.5
Dekalb	DKC 70-27	195.7	172.4	239.4	227.2	205.7	208.1
Dyna-Gro	D57VC51	201.0	163.2	230.3	229.7	210.2	206.9
Terral/Rev	28BHR18	184.7	173.0	237.6	229.1	197.6	204.4
BH Genetics	BH8721VT2P	190.0	166.2	223.0	225.3	209.4	202.8
Dekalb	DKC 67-44	186.0	166.3	228.0	221.1	200.1	200.3
Armor	A1447	199.1	156.2	220.0	214.8	192.8	196.6
Dekalb	DKC 64-35	187.9	159.1	221.2	200.8	184.9	190.8
Armor	C5678	192.2	145.8	208.8	214.2	189.9	190.2
Dyna-Gro	D58VC65	188.3	143.7	205.2	204.7	179.4	184.2

¹Alex=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 months of April and May. Temperatures were moderate during the month of June, which coincided with pollination and early grain fill. However, during the month

of June, rainfall was below normal (see graph below). Grain yields ranged from 187.8 to 247.4 bushels per acre with a trial average of 222.16 bushels per acre in this dryland trial (Table 6). Yield results were considered excellent for this part of the state. There were 25 hybrids that fell within the high-yielding group for 2019. Other agronomic data are presented in Table 6.

Soil type: Coushatta silt loam

Soil pH: 7.96

Tillage: Reduced

Previous crop: Soybeans

Row width: 38"

Seeding rate: 36,000

Planting date: March 18, 2019

Irrigation: No

Pre-plant fertilizer: 0-60-60

Post-plant fertilizer: 200-0-0-13

Herbicide applications: Pre-emerge: Atrazine 4L + Medal II

Herbicide applications: Post-emerge: Atrazine 4L + Glyphosate (5/1/19)

Harvest date: Aug. 14, 2019

Harvested plot size: 2 rows by 50 feet

Experimental design: RCBD

Replications: 5

Alexandria Weather

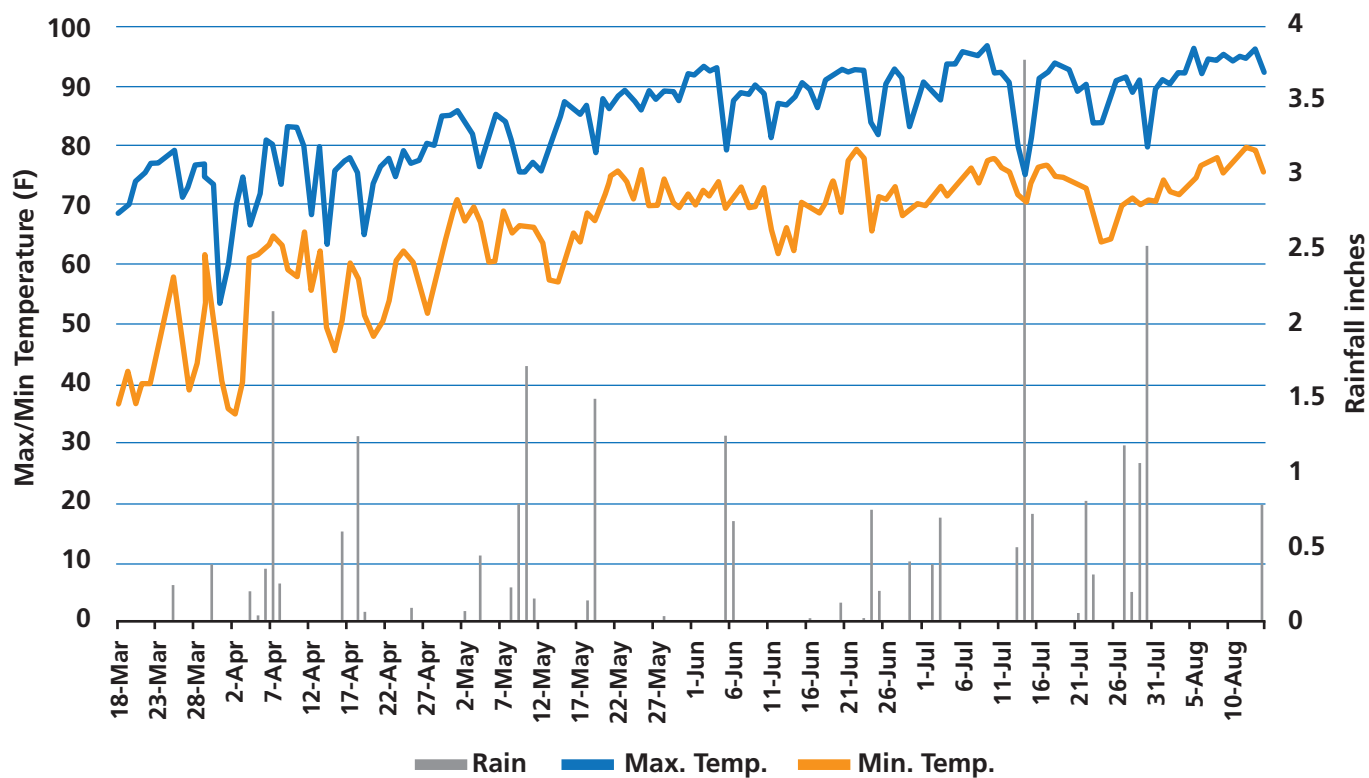


Table 6. Performance of corn hybrids, Alexandria, 2019.

Brand	Hybrid	YLD ¹	GM	Test w ²	Stan ²	M ²	P ²	EH	HC	LO
Dyna-Gro	Hybrid	247.4	16.0	59.0	35,863	72.2	88.3	40.3	1.8	0.66
Dekalb	D57VC51	245.2	16.3	59.9	33,261	71.4	86.2	38.5	1.3	1.05
Armor	DKC 68-69	239.9	15.7	59.4	33,973	70.6	82.9	36.2	1.3	0.00
Dyna-Gro	A1778	236.2	15.9	60.0	35,041	71.4	88.4	42.3	1.5	0.67
LG Seeds	D57VC17	235.6	16.2	59.9	35,041	72.6	85.4	41.8	1.5	0.37
Armor	LG68C22VT2PRO	235.2	15.4	59.8	34,028	71.8	102.2	39.1	2.0	0.90
Armor	AX9115B	234.8	15.1	58.9	34,137	71.6	83.7	36.8	1.5	0.40
Armor	C5678	234.6	14.7	58.9	34,877	69.2	80.4	35.3	2.3	0.31
Dekalb	A1447	234.4	15.5	59.5	35,425	70.6	85.8	38.6	2.5	0.28
Progeny	DKC 64-35	233.8	15.9	59.2	33,699	70.8	87.4	39.0	2.8	0.41
BH	PGY 9117VT2P	233.6	16.3	59.3	33,617	71.6	85.0	38.3	2.0	0.10
Dyna-Gro	BH8721VT2P	232.2	14.9	57.7	35,288	70.4	81.3	36.2	2.0	0.49
Dyna-Gro	D52VC63	231.6	14.4	58.9	34,082	70.0	79.1	35.9	3.0	0.20
Dyna-Gro	D54VC14	231.6	15.3	57.8	35,644	72.4	84.4	40.1	1.5	0.18
Local Seed	D55VC80	231.0	15.9	60.0	34,575	71.4	83.9	40.7	1.3	0.49
Augusta	LC1878VT2P	231.0	16.4	55.3	32,712	72.2	93.2	40.5	1.0	0.00
Armor	A1367	229.6	17.0	58.4	33,739	72.0	86.1	39.3	2.0	0.20
Local Seed	A1810	229.4	13.9	58.7	35,287	70.2	84.3	38.5	1.5	0.00
Terral/Rev	LC1488VT2P	228.8	16.1	58.3	32,110	72.8	95.4	44.1	1.5	0.00
Dekalb	28BHR18	228.6	13.6	57.2	34,055	70.2	81.0	37.1	3.0	0.00
Dekalb	DKC 62-53	228.2	14.5	57.6	32,877	71.4	88.3	42.4	2.5	0.00
LG Seeds	DKC 66-75	227.8	15.0	59.0	35,068	71.0	80.5	35.8	1.5	0.10
BH	LG66C32VT2PRO	227.4	15.0	60.1	34,575	72.2	82.6	38.8	1.8	0.00
Progeny	XP8511VT2P	226.6	15.4	58.8	32,603	70.2	80.4	35.9	1.5	0.00
Progeny	PGY EXP1918	226.4	14.8	59.2	33,589	68.8	78.6	34.6	3.0	0.63
Augusta	PGY 9114VT2P	225.6	15.5	56.6	35,534	71.8	91.0	41.1	1.8	0.29
Local Seed	A4565	224.0	15.3	58.4	33,534	69.0	80.7	35.9	1.3	0.21
Dekalb	LC1795VT2P	223.6	17.0	58.5	33,781	72.4	85.3	39.0	1.3	0.10
Mission Seed	DKC 70-27	223.4	15.7	58.6	33,781	70.6	86.4	41.9	2.3	0.20
LG Seeds	A1687VT2P	221.2	16.2	60.3	34,713	72.0	85.5	40.6	2.0	0.00
Dyna-Gro	LG5650VT2RIB	221.0	15.3	58.6	34,110	70.6	81.5	37.1	1.8	0.00
Terral/Rev	D58VC65	220.2	14.8	58.4	32,986	73.0	89.5	41.1	1.3	0.10
Terral/Rev	24BHR99	219.2	15.5	57.8	32,630	72.4	86.9	40.7	2.5	0.11
Pioneer	25BHR89	218.2	14.7	58.5	32,329	73.6	92.0	44.3	1.0	0.20
Local Seed	P1464 VYHR	218.2	14.4	57.8	32,795	70.6	81.6	35.5	2.0	0.00
Local Seed	LC1289VT2P	217.8	15.3	59.1	34,383	71.0	77.4	33.6	2.0	0.64
Terral/Rev	LC1577VT2P	217.8	17.0	59.0	33,918	73.2	87.4	38.1	1.8	0.10
Dekalb	26BHR30	217.4	16.0	59.0	34,356	71.2	84.2	38.7	1.5	0.00
Armor	DKC 67-44	217.2	15.4	58.2	35,808	73.2	83.7	38.3	1.5	0.00
Pioneer	AX9115	217.0	17.1	58.8	33,233	74.2	87.0	38.6	1.5	0.22
Progeny	P1870 YHR	216.2	16.2	60.4	34,247	72.6	84.7	40.2	1.5	0.00
BH	PGY 8116 SS	216.0	16.9	59.7	35,287	73.2	87.3	39.7	1.8	0.19
Dekalb	XP8780SS	215.2	14.9	57.9	33,124	70.2	80.1	35.1	2.0	0.30
Progeny	DKC 66-18	213.0	16.0	59.4	32,247	70.6	83.8	40.3	1.0	0.00
Local Seed	PGY 6119VT2P	210.2	16.4	59.4	34,630	72.2	84.6	36.8	1.5	0.19

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Brand	Hybrid	YLD ¹	GM	Test w ²	Stan ²	M ²	P ²	EH	HC	LO
Dekalb	LC1776VT2P	209.6	15.2	60.0	33,069	71.4	82.3	36.3	2.3	0.00
Local Seed	DKC 65-95	208.2	15.4	60.1	33,534	68.8	78.3	36.5	1.8	0.42
LG Seeds	LC1586TC	206.2	15.1	59.0	32,282	69.0	87.1	39.0	1.3	0.41
Local Seed	LG64C30TRC	205.0	14.9	56.4	33,836	74.0	91.0	39.1	1.3	0.00
Local Seed	AV8614YHB	203.9	15.3	58.4	34,439	70.8	82.9	39.3	1.8	0.00
Armor	LCX16-91	201.2	15.7	60.4	34,466	70.2	80.3	35.7	2.0	0.10
Local Seed	A1688T	197.6	16.7	58.6	33,260	73.6	84.4	39.6	1.3	0.32
Local Seed	LC1987VT2P	193.8	12.9	56.5	33,781	70.0	79.1	34.7	1.7	0.20
Terral/Rev	LC0877VT2P	187.8	15.2	59.3	33,260	71.4	77.4	34.3	1.0	0.00
Average	24BHR70	222.16	15.509	58.769	33,981	71.4	84.7748	38.4641	1.75	0.21745
CV, %		9.06	3.71	1.39	4.81	2.07	7.18	6.85	36.29	224.66
LSD (0.10)		21.04	0.601	0.855	1708.76	1.54	6.3557	2.7543	0.74	NS

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

¹YLD- yield (bu/a) adjusted to 15.5%; GM-grain moisture at harvest (%); MS-midsilk (days); PH-plant height (in); EH-ear height (in); HC-husk cover, 1=closed and 3=open husk; LO-lodging (%). 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 June and July, rainfall was below normal, causing yields to be reduced (see graph below). Temperatures were moderate during the months of June and

July, which coincided with pollination and grain fill. Grain yields ranged from 103.0 to 154.1 bushels per acre with a trial average of 124.1 bushels per acre in this dryland trial (Table 7). There were 12 hybrids that fell within the high-yielding group for 2019. Other agronomic data are presented in Table 7.

Soil type: Caplis very fine sandy loam

Soil pH: 5.85

Tillage: Conventional

Previous crop: Wheat

Row width: 40"

Seeding rate: 36,000

Planting date: March 21, 2019

Irrigation: No

Pre-plant fertilizer: None

Post-plant fertilizer: 200-0-0

Herbicide applications: Pre-emerge: Zidua + Atrazine

Herbicide applications: Pre-harvest: Gramoxone

Harvest date: Aug. 30, 2019

Harvested plot size: 2 rows by 40 feet

Experimental design: RCBD

Replications: 4

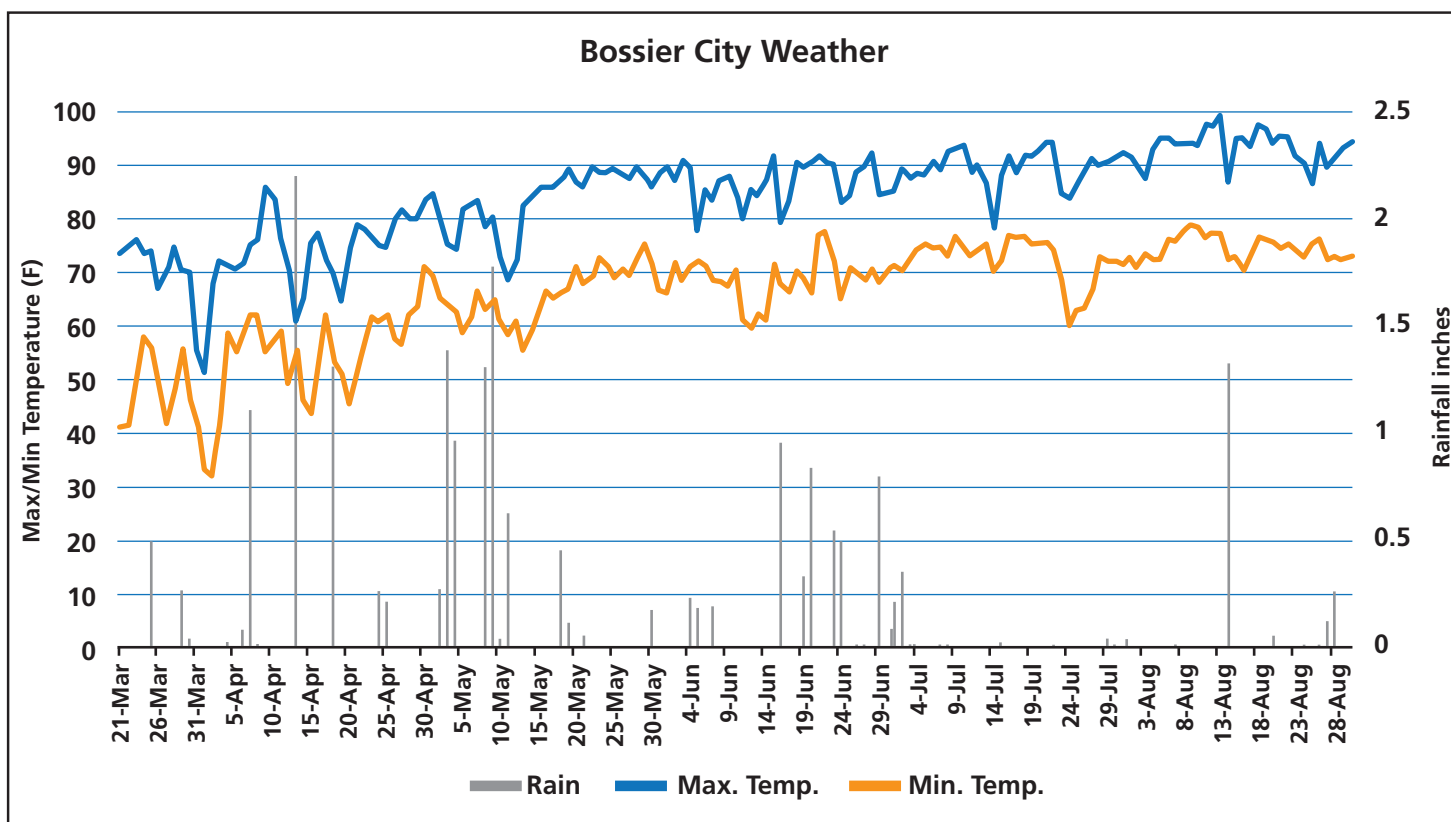


Table 7. Performance of corn hybrids, Bossier City, 2019.

Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO
Terral/Rev	24BHR99	154.1	13.0	56.6	32,423	79.0	80.5	24.0	1.5	0
LG Seeds	LG68C22VT2PRO	145.9	14.1	58.0	34,680	79.3	79.5	28.8	1.0	0
Local Seed	LC1577VT2P	141.9	13.7	57.7	34,233	75.5	83.5	28.3	1.5	0
LG Seeds	LG64C30TRC	139.0	13.6	55.5	34,603	78.0	83.3	29.8	1.5	0
LG Seeds	LG5650VT2RIB	138.2	13.6	58.8	34,000	76.3	81.3	32.8	2.3	0
Armor	A1688T	138.0	14.2	58.3	34,060	74.0	78.5	28.0	1.8	0
Terral/Rev	28BHR18	137.8	14.6	58.5	33,733	78.8	84.8	30.8	1.5	0
Terral/Rev	26BHR30	137.1	14.2	59.2	33,430	76.3	86.0	26.8	1.8	0
Dekalb	DKC 65-95	135.6	13.4	57.6	34,275	76.8	76.5	25.3	1.5	0
Pioneer	P1464 VYHR	135.3	12.8	56.4	33,078	80.8	82.3	28.8	1.5	0
Local Seed	LCX16-91	135.2	14.0	59.4	34,715	76.8	78.8	27.5	2.0	0
Progeny	PGY 8116 SS	134.2	13.8	57.9	32,750	78.8	81.0	29.8	1.8	0
Local Seed	LC1795VT2P	132.2	14.2	57.3	31,768	75.0	76.3	25.0	1.0	0
Pioneer	P1870 YHR	132.1	14.2	59.0	32,423	79.8	80.3	24.5	2.0	0
Dekalb	DKC 66-75	131.7	14.2	55.9	34,060	76.0	78.0	29.3	1.3	0
Local Seed	LC1289VT2P	130.0	13.5	56.0	35,370	76.3	76.8	27.0	1.8	0
Dekalb	DKC 68-69	129.4	14.6	59.3	33,733	79.5	83.3	29.5	1.5	0
Augusta	A1367	129.1	13.4	52.7	33,025	80.5	80.8	25.5	2.0	0
Local Seed	AV8614YHB	127.6	13.1	56.1	34,650	82.3	86.0	29.8	2.3	0
Local Seed	LC1586TC	126.8	13.9	59.4	33,405	74.3	79.3	28.5	1.3	0
Augusta	A4565	126.3	12.6	53.7	34,265	79.5	79.5	27.8	2.0	0
Dyna-Gro	D54VC14	125.6	13.9	57.1	34,388	76.8	78.3	25.8	1.3	0

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Continued from Page 11

Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO
Dyna-Gro	D52VC63	125.5	14.1	56.4	34,853	76.3	76.5	23.3	2.0	0
Progeny	PGY 9117VT2P	124.9	14.1	56.8	33,930	78.0	83.0	29.5	1.3	0
Armor	AX9115	124.5	12.8	55.9	34,715	79.3	74.5	26.8	1.5	0
Armor	A1810	124.1	13.9	57.0	33,405	79.0	79.3	23.5	1.8	0
Dyna-Gro	D57VC17	124.0	13.0	57.2	34,000	80.0	80.0	26.8	2.3	0
Local Seed	LC1776VT2P	123.3	14.3	57.0	34,343	77.3	80.5	27.0	1.3	0
Dekalb	DKC 66-18	123.1	14.1	55.9	35,370	77.5	78.5	25.5	1.5	0
Local Seed	LC0877VT2P	123.0	13.1	53.2	33,610	77.3	78.5	26.5	1.8	0
BH	BH8721VT2P	122.6	13.2	57.2	35,698	77.5	79.3	23.8	1.5	0
Dekalb	DKC 67-44	121.8	14.2	56.6	34,510	76.3	79.8	28.5	1.8	0
Progeny	PGY 9114VT2P	121.3	13.1	56.2	34,715	75.3	75.0	25.8	1.3	0
Dyna-Gro	D57VC51	121.0	13.1	55.5	34,798	78.5	80.0	27.0	1.5	0
Armor	A1447	120.8	13.9	59.0	32,423	75.0	71.3	23.5	1.3	0
Progeny	PGY 6119VT2P	120.6	14.7	57.7	33,108	75.8	77.5	28.0	1.5	0
Local Seed	LC1987VT2P	117.4	14.1	57.3	34,060	77.8	81.3	27.0	2.0	0
Local Seed	LC1878VT2P	117.0	13.9	57.2	34,390	77.8	79.5	26.8	2.0	0
Terral/Rev	25BHR89	116.1	12.7	55.1	32,095	78.5	77.3	27.3	2.3	0
LG Seeds	LG66C32VT2PRO	115.5	14.1	57.4	35,698	76.0	73.0	25.3	1.3	0
BH	XP8511VT2P	115.4	13.4	59.5	34,680	79.0	79.3	29.8	1.8	0
Mission Seed	A1687VT2P	115.1	13.9	55.9	33,733	77.0	81.8	25.8	1.8	0
Armor	A1778	114.2	13.8	55.2	35,043	76.3	71.8	24.5	1.0	0
Local Seed	LC1488VT2P	113.0	12.5	54.4	34,188	76.8	76.0	25.8	2.0	0
Dyna-Gro	D58VC65	111.5	13.8	56.5	34,603	76.8	75.5	22.0	1.5	0
BH	XP8780SS	111.2	14.0	57.4	35,698	80.8	78.0	28.5	2.0	0
Dekalb	DKC 70-27	110.4	14.3	56.9	33,733	79.0	79.5	28.0	1.5	0
Progeny	PGY EXP1918	109.1	14.0	55.5	33,733	76.0	77.8	26.8	2.0	0
Armor	AX9115B	108.4	13.5	58.4	35,043	78.5	78.8	27.0	2.3	0
Terral/Rev	24BHR70	107.7	12.7	56.7	34,025	80.5	74.0	24.0	2.0	0
Dekalb	DKC 64-35	106.7	13.6	57.1	34,388	79.5	76.0	26.3	2.0	0
Armor	C5678	103.9	13.1	56.8	34,388	76.5	72.8	23.8	1.5	0
Dekalb	DKC 62-53	103.0	12.9	52.2	35,208	79.8	74.3	26.5	2.5	0
Average		124.14	13.6765	56.775	34,098.8	77.71	78.75	26.84	1.68	0.0
CV, %		12.81	6.22	2.27	8.57	2.59	7.07	14.2	35.04	0.0
LSD (0.10)		21.56	0.996	1.5093	NS	2.35	6.51	4.46	0.69	NS

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

¹YLD- yield (bu/a) adjusted to 15.5%; GM-grain moisture at harvest (%); MS-midsilk (days); PH-plant height (in); EH-ear height (in); HC-husk cover, 1=closed and 3=open husk; LO-lodging (%). NS = Statistically nonsignificant 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. Temperatures were moderate in May with adequate rainfall. June rainfall was adequate, which coincided with pollination and a large

portion of grain fill (see graph below). Grain yields ranged from 161.7 to 275.7 bushels per acre with a trial average of 253.8 bushels per acre in this irrigated trial (Table 8). Excellent yields were produced at this location. There were 39 hybrids that fell within the high-yielding group for 2019. Other agronomic data are presented in Table 8.

Soil type: Commerce silt loam

Soil pH: 6.77

Tillage: Reduced

Previous crop: Cotton

Row width: 40"

Seeding rate: 36,000

Planting date: March 20, 2019

Irrigation: Yes

Pre-plant fertilizer: 0-23-23

Post-plant fertilizer: 250-0-0-45

Herbicide applications: Pre-emerge: Atrazine + Gramoxone + S-Metolchlor

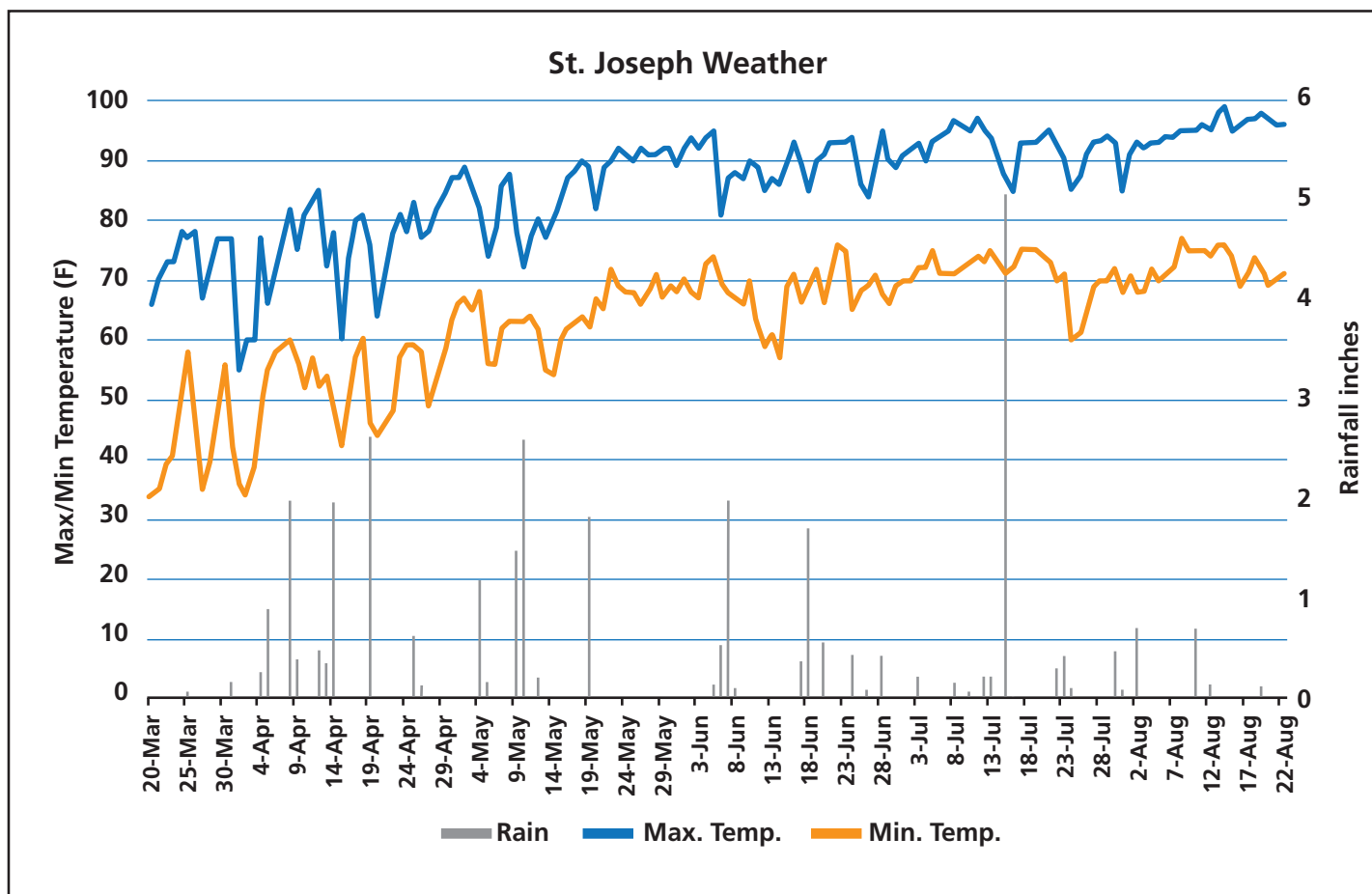
Herbicide applications: Post-emerge: Glyphosate + Gramoxone + S-Metolchlor

Harvest date: Aug. 22, 2019

Harvested plot size: 2 rows by 52 feet

Experimental design: RCBD

Replications: 4



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Table 8. Performance of corn hybrids, St. Joseph-silt loam, 2019.

Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO
Pioneer	P1870 YHR	275.7	16.4	57.8	33,500	73.3	102.6	49.3	1.5	0
Dekalb	DKC 70-27	274.4	15.2	57.5	30,625	72.3	102.3	52.0	1.0	0
Dyna-Gro	D57VC51	272.7	15.4	57.3	33,125	71.8	96.1	49.0	1.0	0
Progeny	PGY 9117VT2P	271.4	14.2	57.9	29,750	71.0	98.0	49.1	1.5	0
Local Seed	AV8614YHB	270.7	15.3	56.5	31,375	72.5	103.4	51.7	1.8	0
Dekalb	DKC 65-95	270.2	14.3	57.1	30,875	69.0	95.3	50.4	1.3	0
Terral/Rev	24BHR70	270.2	13.6	56.4	31,000	71.3	96.5	50.0	1.3	0
BH	XP8511VT2P	270.0	14.3	55.9	31,125	70.0	97.5	52.2	1.0	0
Pioneer	P1464 VYHR	268.8	14.0	56.7	29,625	72.0	103.2	54.8	1.3	0
Armor	AX9115	267.2	14.8	56.9	30,500	71.8	97.5	47.8	1.3	0
Dyna-Gro	D55VC80	266.2	14.6	56.0	33,875	72.0	102.1	55.6	1.3	0
Terral/Rev	28BHR18	265.8	15.9	57.3	30,125	72.8	107.5	53.4	1.8	0
Terral/Rev	24BHR99	264.5	14.0	55.3	32,000	72.3	101.0	53.2	1.3	0
Terral/Rev	25BHR89	264.4	14.2	55.8	29,250	72.3	102.3	54.8	1.3	0
Augusta	A1367	262.3	15.7	54.9	30,875	71.3	107.2	52.0	1.0	0
Dekalb	DKC 68-69	262.2	15.4	57.7	31,250	70.5	100.8	52.5	1.0	0
Dekalb	DKC 64-35	261.9	14.2	57.1	31,750	71.0	100.7	48.9	1.5	0
LG Seeds	LG68C22VT2PRO	261.2	14.9	58.6	31,375	71.3	99.4	48.7	1.3	0
Local Seed	LC1776VT2P	261.0	14.5	55.2	31,750	71.5	102.1	50.6	1.3	0
Progeny	PGY 9114VT2P	260.7	14.4	56.9	30,625	68.0	88.9	42.2	1.3	0
Terral/Rev	26BHR30	260.6	14.9	58.2	30,125	72.0	101.3	55.6	1.5	0
Local Seed	LC1878VT2P	259.7	14.5	57.7	30,375	71.8	100.9	54.1	1.3	0
Armor	A1778	259.5	13.9	56.5	30,375	71.5	92.9	48.3	1.0	0
Dekalb	DKC 67-44	259.2	14.7	56.9	32,125	69.5	102.7	51.9	1.0	0
Dyna-Gro	D52VC63	258.6	13.9	56.3	28,500	69.3	97.6	47.9	1.0	0
BH	XP8780SS	257.8	15.3	57.8	32,000	72.3	95.3	49.0	1.3	0
Dyna-Gro	D57VC17	257.2	14.6	57.7	29,375	71.5	97.9	52.8	1.3	0
Dekalb	DKC 66-18	256.6	14.7	56.2	30,000	71.0	92.8	48.5	1.0	0
BH	BH8721VT2P	256.0	14.4	57.3	29,375	71.0	100.5	53.0	1.0	0
Progeny	PGY 8116 SS	256.0	14.4	59.2	31,500	71.8	94.6	49.9	1.1	0
Local Seed	LC1577VT2P	254.7	13.6	57.1	34,750	68.8	93.2	43.7	1.5	0
Armor	A1447	254.6	14.3	57.2	30,250	68.5	93.6	49.3	1.5	0
Local Seed	LC1987VT2P	254.0	14.9	57.6	31,250	71.5	101.0	48.9	1.1	0
Armor	A1810	253.9	14.7	55.8	28,500	72.0	102.1	51.9	1.3	0
LG Seeds	LG66C32VT2PRO	253.5	14.1	56.6	34,500	69.5	87.0	45.8	1.0	0
Dekalb	DKC 66-75	253.2	14.8	55.9	32,500	71.0	103.5	53.6	1.3	0
Progeny	PGY 6119VT2P	250.4	14.7	58.7	32,125	70.3	96.7	51.7	1.3	0
LG Seeds	LG5650VT2RIB	249.6	13.9	57.9	32,875	70.3	99.2	51.8	1.0	0
Dekalb	DKC 62-53	245.6	13.9	54.4	33,125	69.5	94.0	46.4	1.8	0
Armor	AX9115B	244.6	14.5	58.3	28,875	71.5	94.1	51.7	1.0	0
Augusta	A4565	243.8	14.5	54.9	33,500	72.0	106.9	53.5	1.0	0
Dyna-Gro	D58VC65	243.7	14.8	56.7	32,125	69.3	91.3	47.3	1.0	0
Dyna-Gro	D54VC14	242.8	14.0	57.4	32,375	67.5	91.4	45.9	1.3	0

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Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO
Local Seed	LCX16-91	241.8	14.5	59.6	29,125	70.3	100.6	51.1	1.0	0
Local Seed	LC1488VT2P	241.4	13.5	54.9	33,125	70.5	100.3	47.4	1.3	0
Local Seed	LC1795VT2P	241.1	13.9	57.3	33,375	67.3	99.7	46.7	1.3	0
LG Seeds	LG64C30TRC	241.0	14.8	56.9	29,250	68.3	98.3	48.1	1.0	0
Local Seed	LC0877VT2P	239.3	13.3	54.0	31,500	68.5	94.9	46.7	1.5	0
Armor	C5678	235.2	14.1	58.6	30,625	70.8	97.2	44.7	1.0	0
Mission Seed	A1687VT2P	234.6	15.3	56.5	29,125	71.0	98.7	52.1	1.0	0
Local Seed	LC1289VT2P	229.9	14.3	56.5	27,625	68.5	98.4	49.4	1.3	7.5
Progeny	PGY EXP1918	228.8	13.9	56.7	35,250	67.5	89.8	46.1	1.3	0
Local Seed	LC1586TC	172.1	14.3	58.0	28,250	68.3	91.1	45.2	1.3	42.5
Armor	A1688T	161.7	15.3	57.9	31,500	67.3	95.7	49.2	1.6	65.0
Average		253.76	14.518	56.877	31,178.24	70.53	98.151	49.972	1.22	2.13
CV, %		9.51	4.62	2.3	9.42	1.7	5.79	7.53	32.72	450.02
LSD (0.10)		28.25	0.785	1.533	NS	1.4	6.653	4.404	NS	11.21

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

¹YLD- yield (bu/a) adjusted to 15.5%; GM-grain moisture at harvest (%); MS-midsilk (days); PH-plant height (in); EH-ear height (in); HC-husk cover, 1=closed and 3=open husk; LO-lodging (%). 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 April with soil moisture being adequate. Temperatures were moderate in May with adequate rainfall. June rainfall was adequate, which coincided with pollination and a large portion of grain fill (see

graph below). Grain yields ranged from 157.2 to 224.3 bushels per acre with a trial average of 202.0 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.

Soil type: Sharkey clay

Soil pH: 6.33

Tillage: Reduced

Previous crop: Cotton

Row width: 40"

Seeding rate: 36,000

Planting date: April 11, 2019

Irrigation: Yes

Pre-plant fertilizer: 0-46-46

Post-plant fertilizer: 280-0-0-49

Herbicide applications: Pre-emerge: Glyphosate + Atrazine + S-Metolachlor

Herbicide applications: Post-emerge: Glyphosate + Atrazine + S-Metolachlor

Harvest date: Aug. 30, 2019

Harvested plot size: 2 rows by 52 feet

Experimental design: RCBD

Replications: 4

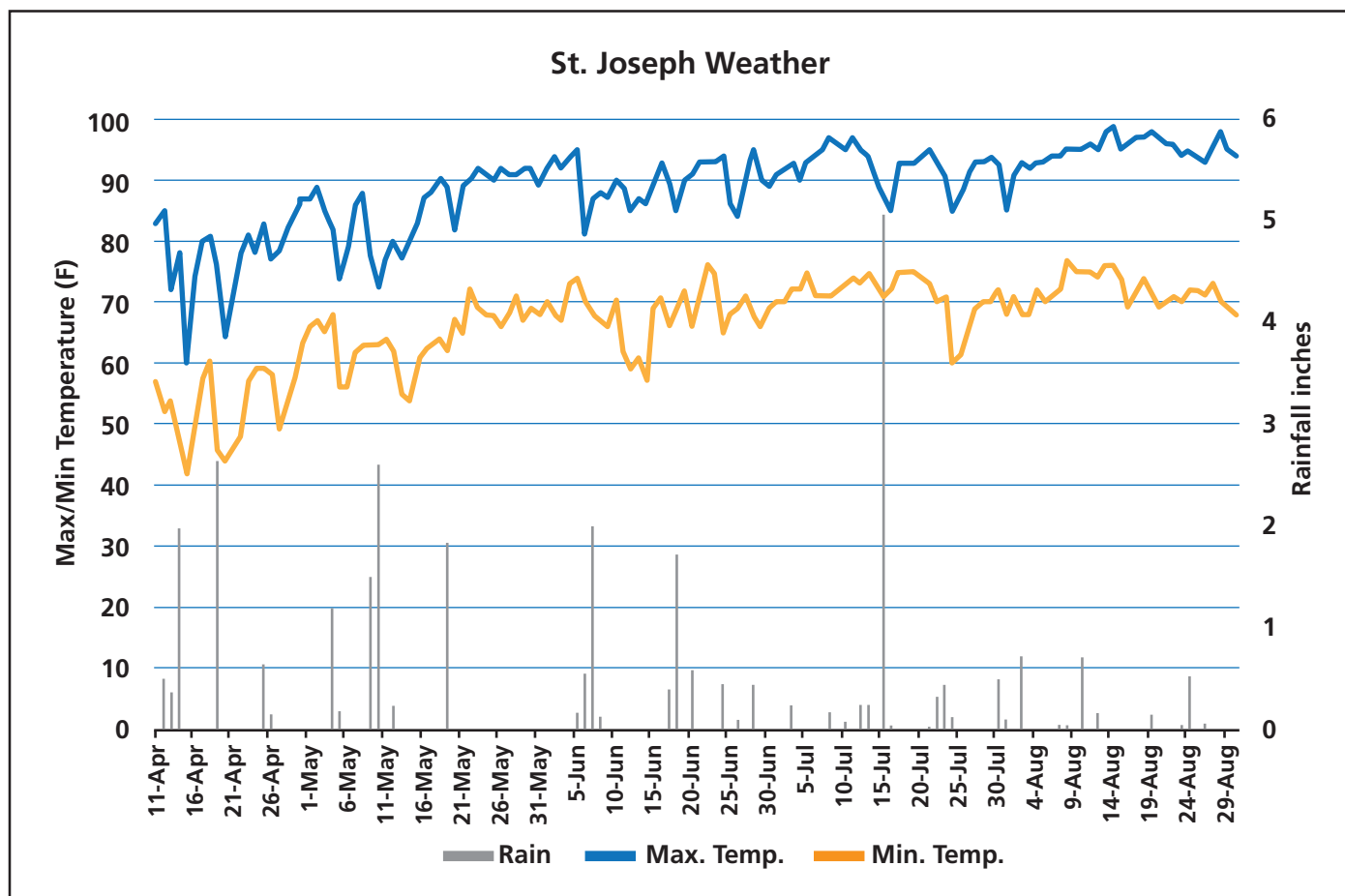


Table 9. Performance of corn hybrids, St. Joseph-clay, 2019.

Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO
Dekalb	DKC 67-44	224.3	14.2	58.0	30,250	53.3	87.2	41.63	1.3	0
LG Seeds	LG68C22VT2PRO	223.6	14.6	58.1	31,875	55.8	90.4	44.63	1.0	0
Dyna-Gro	D57VC17	220.7	14.3	58.2	30,000	55.3	85.3	44.38	1.0	0
Progeny	PGY 8116 SS	220.3	14.4	58.8	28,375	56.0	83.5	47.95	1.5	0
Armor	AX9115	219.2	14.6	56.5	30,500	54.3	87.3	44.98	1.0	0
Pioneer	P1464 VYHR	218.8	13.4	57.7	29,125	56.0	83.7	45.08	1.5	0
Dekalb	DKC 70-27	218.0	15.0	56.4	30,875	55.3	85.1	46.55	1.0	0
Dekalb	DKC 65-95	217.8	14.0	57.8	30,625	53.0	88.4	40.6	1.5	0
Dyna-Gro	D55VC80	216.3	14.1	53.9	32,250	54.8	86.2	45.28	1.0	0
Armor	C5678	212.9	13.6	57.2	29,125	52.3	81.1	42.2	1.3	0
Terral/Rev	24BHR99	212.7	13.9	57.2	29,000	54.0	88.2	42.58	1.0	0
LG Seeds	LG5650VT2RIB	211.0	13.7	57.0	30,625	54.3	89.1	44.78	1.5	0
Terral/Rev	25BHR89	210.8	14.2	57.0	30,500	55.3	86.2	45.4	1.5	0
BH	XP8780SS	210.1	14.9	58.0	29,375	55.8	87.5	43.53	1.5	0
Local Seed	LC1987VT2P	209.4	14.6	57.1	30,375	56.3	87.3	44.7	1.3	0
BH	XP8511VT2P	209.2	13.3	57.8	28,750	53.3	88.1	42.15	1.3	0
Armor	A1810	209.0	15.4	55.9	30,750	53.5	87.6	42.28	1.3	0
Armor	A1778	206.8	14.3	57.6	30,125	52.8	82.4	42.05	1.0	0
Dekalb	DKC 68-69	206.8	15.2	57.0	27,250	56.0	89.2	46.28	1.0	0

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Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO
Progeny	PGY 9117VT2P	206.4	15.0	57.7	30,500	53.0	82.8	44.58	1.3	0
Dyna-Gro	D57VC51	205.9	14.2	56.1	30,750	55.5	86.0	42.18	1.0	0
Dekalb	DKC 64-35	205.9	13.6	57.0	31,875	54.3	87.1	41.75	1.5	0
Armor	A1447	204.8	13.4	56.5	31,000	49.8	78.8	42.28	1.0	0
Terral/Rev	26BHR30	204.5	14.8	57.6	28,750	54.8	88.8	42.93	1.3	0
Armor	A1688T	204.3	14.1	62.1	30,125	51.0	87.9	39.5	1.0	0
Dekalb	DKC 66-18	203.4	14.1	56.1	29,750	53.8	86.9	39.35	1.0	0
Dekalb	DKC 66-75	202.9	14.4	55.5	31,625	54.0	86.0	44.63	1.0	0
Dyna-Gro	D52VC63	202.1	13.7	56.4	29,250	50.8	84.9	38.38	1.0	0
Dekalb	DKC 62-53	202.0	13.4	56.4	28,500	52.3	82.5	44.13	1.3	0
Local Seed	AV8614YHB	202.0	14.1	55.6	30,875	56.0	85.4	41.2	1.8	0
Armor	AX9115B	201.0	13.1	56.0	26,125	53.8	84.7	45.5	1.3	0
Mission Seed	A1687VT2P	200.0	14.2	57.2	29,250	53.5	87.5	41.25	1.3	0
Local Seed	LC1878VT2P	198.9	14.0	56.0	28,000	54.3	84.3	43.68	1.3	0
Pioneer	P1870 YHR	198.8	14.5	58.9	24,375	56.0	90.3	44	1.5	0
Progeny	PGY EXP1918	197.7	14.6	56.8	29,625	51.5	81.3	41.38	1.0	0
Local Seed	LC1289VT2P	197.3	13.7	55.7	28,875	51.5	79.5	39.18	1.3	0
LG Seeds	LG64C30TRC	196.5	14.1	57.9	29,250	51.5	84.7	44.33	1.0	0
Terral/Rev	28BHR18	196.4	14.8	57.8	25,750	57.0	88.6	49.35	1.8	0
Local Seed	LCX16-91	196.3	14.5	56.9	28,125	54.5	85.7	40.95	1.0	0
Terral/Rev	24BHR70	196.2	13.7	56.3	29,375	55.5	75.4	42.3	1.3	0
Dyna-Gro	D54VC14	196.2	13.5	56.0	29,625	50.3	81.4	38.5	1.3	0
Local Seed	LC1776VT2P	195.6	14.6	56.7	25,000	54.0	87.5	41.2	1.5	0
Local Seed	LC1795VT2P	194.4	14.0	56.4	29,375	51.0	80.2	40.98	1.0	0
LG Seeds	LG66C32VT2PRO	194.3	13.8	57.1	29,500	52.3	79.4	41.3	1.0	0
Progeny	PGY 6119VT2P	192.2	14.6	57.6	28,375	53.5	86.3	42.3	1.0	0
Augusta	A4565	191.1	14.0	54.5	31,625	54.5	86.0	42.43	1.0	0
Local Seed	LC1577VT2P	190.1	13.3	55.3	29,250	51.3	84.8	38.73	1.0	0
Augusta	A1367	189.7	15.1	53.3	28,125	54.5	94.7	44.63	1.3	0
Local Seed	LC1488VT2P	188.9	13.3	57.6	30,125	52.0	80.7	41.43	1.0	0
Local Seed	LC1586TC	187.9	14.0	57.8	26,875	50.5	82.4	40.03	1.0	0
BH	BH8721VT2P	183.7	14.9	56.5	24,125	53.3	86.9	40.8	1.5	0
Local Seed	LC0877VT2P	172.8	12.7	54.4	29,000	52.0	82.5	39.25	1.3	0
Progeny	PGY 9114VT2P	172.5	13.8	57.3	26,375	50.8	82.1	38.83	1.3	0
Dyna-Gro	D58VC65	157.2	13.8	53.7	29,125	52.3	83.8	38.85	1.3	10.0
Average		202	14.122	56.79	29,222.23	53.57	85.203	42.574	1.2	0.19
CV, %		7.99	2.6	3.85	12.92	1.8	6.31	9.26	29.6	1469.7
LSD (0.10)		18.88	0.43	2.559	NS	1.13	6.29	4.614	0.42	NS

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

¹YLD- yield (bu/a) adjusted to 15.5%; GM-grain moisture at harvest (%); MS-midsilk (days); PH-plant height (in); EH-ear height (in); HC-husk cover, 1=closed and 3=open husk; LO-lodging (%). 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. Temperatures were moderate in the month of May and there was adequate rainfall. During the months of June and July, rainfall was below

normal, which coincided with grain fill (see graph below). Grain yields ranged from 197.5 to 227.43 bushels per acre with a trial average of 207.48 bushels per acre in this irrigated trial (Table 10). There were 13 hybrids that fell within the high-yielding group for 2019. Other agronomic data are presented in Table 10.

Soil type: Gigger silt loam

Soil pH: 6.62

Tillage: Conventional

Previous crop: Soybeans

Row width: 40"

Seeding rate: 36,000

Planting date: March 20, 2019

Irrigation: Yes (five times)

Pre-plant fertilizer: None

Post-plant fertilizer: 220-0-0-8

Herbicide applications: Pre-emerge: Lexar

Herbicide applications: Layby: Atrazine

Harvest date: Aug. 22, 2019

Harvested plot size: 2 rows by 40 feet

Experimental design: RCBD

Replications: 5

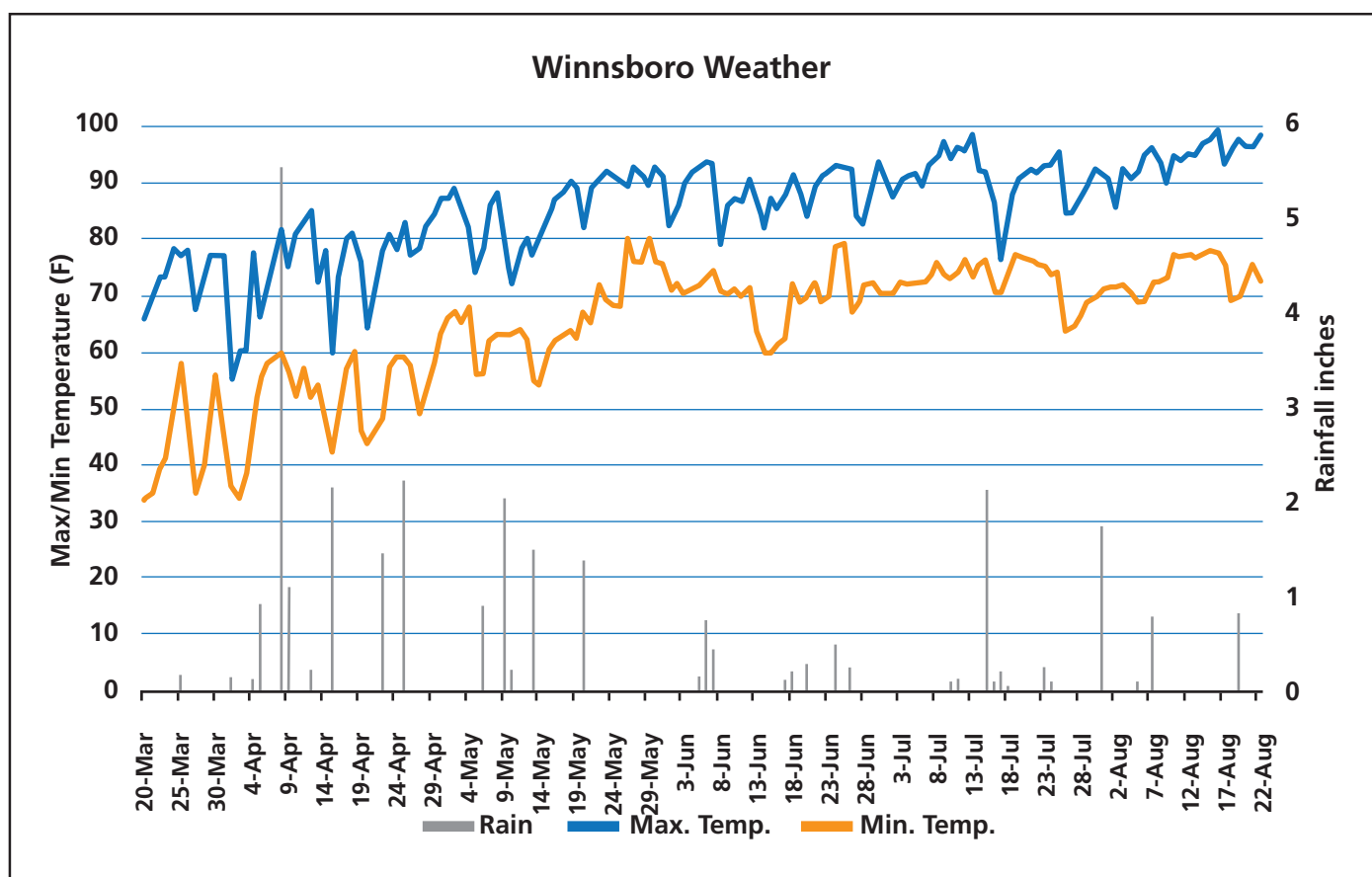


Table 10. Performance of corn hybrids, Winnsboro, 2019.

Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO	SR
Dekalb	DKC 70-27	227.3	16.2	61.4	32,548	72.0	93.5	46.5	1.5	0	2.3
Pioneer	P1870 YHR	225.1	17.0	62.2	30,762	75.0	97.0	49.5	2.5	0	2.0
Augusta	A1367	223.3	16.8	59.1	31,159	74.0	98.5	44.5	2.0	0	3.3
Local Seed	AV8614YHB	222.3	16.0	59.9	31,556	76.0	96.0	40.0	3.0	0	3.0
Terral/Rev	26BHR30	222.0	15.9	62.8	32,152	74.0	93.5	44.0	2.0	0	3.0
Dekalb	DKC 67-44	222.0	16.0	61.8	30,167	70.0	90.5	43.5	2.5	0	2.3
Progeny	PGY 9117VT2P	220.3	16.5	61.3	29,969	71.0	98.0	46.0	3.0	0	1.3
BH	BH8721VT2P	218.4	16.5	61.2	28,381	72.5	91.0	42.0	2.0	0	2.3
Armor	AX9115	218.2	18.5	60.1	32,350	74.0	93.5	45.0	1.5	0	1.0
Armor	A1778	217.7	17.4	61.7	29,968	69.5	88.5	45.0	1.5	0	1.5
Dekalb	DKC 68-69	216.7	17.7	62.1	30,366	73.5	93.0	44.0	1.0	0	1.0
Terral/Rev	25BHR89	216.1	17.3	59.9	31,556	73.5	95.0	48.5	3.0	0	1.0
Dekalb	DKC 66-75	215.6	15.9	60.6	31,754	72.5	88.5	41.5	2.0	0	1.3
Pioneer	P1464 VYHR	215.2	15.7	62.7	30,366	76.0	91.0	46.0	1.5	0	2.0
Terral/Rev	28BHR18	214.4	16.5	62.1	30,366	76.0	96.0	49.0	2.5	0	2.0
Progeny	PGY 8116 SS	212.6	16.3	61.3	31,358	72.5	93.0	44.5	2.0	0	1.3
Armor	A1447	211.8	14.9	61.0	31,755	68.5	87.5	41.0	2.5	0	3.0
Dekalb	DKC 65-95	211.8	16.1	61.1	30,167	69.0	88.5	42.0	2.5	0	2.3
Armor	C5678	211.6	15.8	61.3	27,587	72.5	89.0	42.0	2.0	0	3.0
Local Seed	LC1776VT2P	211.2	16.3	61.7	30,365	72.5	90.5	39.0	2.5	0	2.8
Local Seed	LC1987VT2P	210.7	16.6	62.2	33,144	73.5	90.0	43.5	2.0	0	1.8
LG Seeds	LG5650VT2RIB	210.7	16.6	62.4	32,945	72.5	94.5	48.0	2.0	0	2.8
Augusta	A4565	209.9	16.6	58.9	30,762	75.0	98.5	43.5	1.5	0	2.5
Dyna-Gro	D57VC17	209.6	16.3	62.0	30,762	72.5	88.5	42.0	1.5	0	2.8
LG Seeds	LG68C22VT2PRO	208.4	17.0	62.9	28,579	74.0	92.5	43.5	1.5	0	2.3
Dyna-Gro	D57VC51	207.9	16.7	61.7	31,556	73.0	89.5	42.5	2.0	0	1.3
Terral/Rev	24BHR99	207.8	15.6	60.0	32,549	75.0	95.5	44.5	1.0	0	2.3
BH	XP8780SS	207.6	18.0	62.6	30,961	74.0	84.5	41.0	2.5	0	1.3
Terral/Rev	24BHR70	207.0	16.4	61.2	26,595	72.5	88.0	44.0	2.0	0	2.5
Progeny	PGY 9114VT2P	206.6	16.1	61.2	27,984	68.5	85.0	40.5	2.5	0	3.3
Dekalb	DKC 62-53	205.7	16.9	60.1	28,976	70.0	82.0	42.0	3.0	0	1.5
Local Seed	LC1795VT2P	205.7	16.1	61.1	30,365	70.0	90.0	40.0	1.0	0	1.8
LG Seeds	LG66C32VT2PRO	204.2	15.0	61.8	32,945	71.5	91.5	45.5	1.0	0	2.8
Dekalb	DKC 66-18	203.5	16.6	59.9	31,953	72.0	88.0	41.5	1.5	0	2.3
Local Seed	LC1878VT2P	202.4	15.3	62.1	30,961	73.0	86.0	41.5	1.5	0	3.0
Dyna-Gro	D54VC14	201.2	14.8	60.9	30,365	71.5	84.5	42.5	2.5	0	2.8
Dyna-Gro	D58VC65	201.1	16.0	61.5	32,151	71.0	90.0	44.5	1.5	0	2.3
Local Seed	LC1577VT2P	200.2	15.6	60.6	30,762	71.5	84.0	36.0	2.0	0	1.5
Dekalb	DKC 64-35	199.8	16.7	61.4	31,755	72.5	89.0	38.5	3.0	0	0.8
Local Seed	LC1289VT2P	199.7	16.2	60.3	28,579	71.5	85.0	37.0	1.5	0	2.5
Armor	A1688T	198.7	15.8	62.4	30,762	68.5	87.5	43.5	2.5	0	2.3
Local Seed	LCX16-91	198.0	17.4	62.7	32,548	72.0	85.5	40.5	2.0	0	1.3
Progeny	PGY EXP1918	198.0	16.2	61.3	29,175	70.0	91.0	39.0	1.5	0	2.3
BH	XP8511VT2P	195.3	16.5	62.4	28,381	72.5	87.0	41.5	2.0	0	1.3
Local Seed	LC1586TC	195.2	15.3	62.5	28,976	70.0	85.5	43.0	2.0	0	1.5

Continued on Page 20

Brand	Hybrid	YLD ¹	GM	Test wt	Stand	MS	PH	EH	HC	LO	SR
Progeny	PGY 6119VT2P	192.5	17.1	61.6	30,167	73.5	83.0	38.5	1.0	0	3.3
LG Seeds	LG64C30TRC	190.8	17.2	60.9	26,991	68.0	91.5	45.0	1.5	0	2.0
Mission Seed	A1687VT2P	190.0	16.4	61.4	30,365	72.0	86.0	45.5	1.5	0	1.8
Armor	AX9115B	188.7	17.0	62.4	27,587	71.5	87.0	41.0	2.0	0	1.3
Local Seed	LC1488VT2P	185.9	16.3	61.0	29,770	69.5	92.5	44.0	1.5	0	2.5
Local Seed	LC0877VT2P	182.8	16.2	58.4	29,770	69.5	85.5	41.5	1.5	0	1.8
Armor	A1810	219.8	17.2	61.2	31,159	74.0	90.5	44.0	2.5	0	2.3
Dyna-Gro	D52VC63	197.5	16.0	60.1	31,159	71.5	85.5	37.5	1.5	0	3.8
Average		207.48	16.399	61.289	30,492.44	72.11	89.93	42.83	1.94	0.0	2.11
CV, %		5.5	8.21	1.41	6.09	1.75	4.09	8.41	26.84	0.0	54.31
LSD (0.10)		11.92	1.407	0.902	31,09.85	2.11	6.16	NS	0.87	NS	1.34

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

¹YLD- yield (bu/a) adjusted to 15.5%; GM-grain moisture at harvest (%); MS-midsilk (days); PH-plant height (in); EH-ear height (in); HC-husk cover, 1=closed and 3=open husk; LO-lodging (%). NS = Statistically nonsignificant at the 0.10 probability level.

Table 11. Company, brand name, seed traits, seed treatments, and days to maturity for hybrids entered.

Company	Brand	Hybrid	Trait Family	Product	Seed Treatment	Days to Maturity
Armor Seed	Armor	A1447	Genuity	VT Double Pro	Acceleron250	114
Armor Seed	Armor	AX9115	Genuity	VT Double Pro	P500+B+HRF+NS	115
Armor Seed	Armor	AX9115B	Genuity	VT Double Pro	Acceleron250	115
Armor Seed	Armor	A1688T	Genuity	Trecepta	Acceleron250	116
Armor Seed	Armor	A1778	Genuity	VT Double Pro	Acceleron250	117
Armor Seed	Croplan	C5678	Genuity	VT Double Pro	Acceleron250	116
Armor Seed	Croplan	C6027	Genuity	VT Double Pro	Acceleron250	119
Augusta Seed	Augusta	A1367	Agrisure	Duracade 5222	Cruiser 250	117
Augusta Seed	Augusta	A4565	Agrisure	Duracade 5222	Cruiser 250	115
Bayer CropScience	DeKalb	DKC62-53	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	112
Bayer CropScience	DeKalb	DKC64-35	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	114
Bayer CropScience	DeKalb	DKC65-95	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	115
Bayer CropScience	DeKalb	DKC66-75	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	116
Bayer CropScience	DeKalb	DKC67-44	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	117
Bayer CropScience	DeKalb	DKC68-69	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	118
Bayer CropScience	DeKalb	DKC70-27	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	120
Bayer CropScience	DeKalb	DKC66-18	Genuity	VT Double Pro	Acceleron Elite with Nemastrike	116
BH Genetics	BH Genetics	BH 8721VT2P	Genuity	VT Double Pro	P/V500	117
BH Genetics	BH Genetics	XP8780SS	Genuity	SmartStax	P/V500	116
BH Genetics	BH Genetics	XP8511VT2P	Genuity	VT Double Pro	P/V500	115
Dyna-Gro	Dyna-Gro	D52VC63	Genuity	VT Double Pro	Poncho/Votivo	112
Dyna-Gro	Dyna-Gro	D54VC14	Genuity	VT Double Pro	Poncho/Votivo	114
Dyna-Gro	Dyna-Gro	D55VC80	Genuity	VT Double Pro	Poncho/Votivo	115
Dyna-Gro	Dyna-Gro	D57VC51	Genuity	VT Double Pro	Poncho/Votivo	117
Dyna-Gro	Dyna-Gro	D57VC17	Genuity	VT Double Pro	Poncho/Votivo	117
Dyna-Gro	Dyna-Gro	D58VC65	Genuity	VT Double Pro	Poncho/Votivo	118
LG Seeds	LG Seeds	LG64C30TRC	Genuity	Trecepta	Poncho 500+Votivo	114
LG Seeds	LG Seeds	LG5650VT2RIB	Genuity	VT Double PRO RIB Complete	Poncho 500+Votivo	115
LG Seeds	LG Seeds	LG66C32VT2Pro	Genuity	VT Double PRO	Poncho 500+Votivo	116
LG Seeds	LG Seeds	LG68C22VT2Pro	Genuity	VT Double PRO	Poncho 500+Votivo	118

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Company	Brand	Hybrid	Trait Family	Product	Seed Treatment	Days to Maturity
Local Seed	Local Seed	LC0877 VT2P	Genuity	VT Double Pro	Radius 500	108
Local Seed	Local Seed	LC1289 VT2P	Genuity	VT Double Pro	Radius 500	112
Local Seed	Local Seed	AV8614 YHB			Ponch Votivo 500	114
Local Seed	Local Seed	LC1488 VT2P	Genuity	VT Double Pro	Radius 500	114
Local Seed	Local Seed	LC1577 VT2P	Genuity	VT Double Pro	Radius 500	115
Local Seed	Local Seed	LC1586 TC	Genuity	Trecepta	Radius 500	115
Local Seed	Local Seed	LCX16-91			Acceleron 300	116
Local Seed	Local Seed	LC1776 VT2P	Genuity	VT Double Pro	Radius 500	117
Local Seed	Local Seed	LC1795VT2P	Genuity	VT Double Pro	Acceleron 300	117
Local Seed	Local Seed	LC1878 VT2P	Genuity	VT Double Pro	Radius 500	118
Local Seed	Local Seed	LC1987 VT2P	Genuity	VT Double Pro	Radius 500	119
Mission Seed Solutions	Mission Seed	A1687VT2P	Genuity	VT Double Pro	Acceleron 250	116
Pioneer Hi-Bred International	Pioneer	P1464VYHR	Optimum	Leptra	PPST	114
Pioneer Hi-Bred International	Pioneer	P1870YHR	Optimum	Intrasect	PPST	118
Progeny Ag Products	Progeny Ag	PGY 9114VT2P	Genuity	VT Double Pro	A500 Votivo, EDC, B300	114
Progeny Ag Products	Progeny Ag	PGY 8116SS	Genuity	SmartStax	A500 Votivo, EDC, B300	115
Progeny Ag Products	Progeny Ag	PGY 9117VT2P	Genuity	VT Double Pro	A500 Votivo, EDC, B300	117
Progeny Ag Products	Progeny Ag	PGY EXP1918	Genuity	VT Double Pro	A500 Votivo, EDC, B300	118
Progeny Ag Products	Progeny Ag	PGY 6119VT2P	Genuity	VT Double Pro	A500 Votivo, EDC, B300	119
Terral Seed	REV	24BHR99	Optimum	Intrasect	PONCHO/VOTIVO 1250	114
Terral Seed	REV	24BHR70	Optimum	Intrasect	PONCHO/VOTIVO 1250	114
Terral Seed	REV	25BHR89	Optimum	Intrasect	PONCHO/VOTIVO 1250	115
Terral Seed	REV	26BHR30	Optimum	Intrasect	PONCHO/VOTIVO 1250	116
Terral Seed	REV	28BHR18	Optimum	Intrasect	PONCHO/VOTIVO 1250	118

Table 12. Description of seed traits for hybrids entered.

Trait Family	Product	Above-Ground Insects-Controlled	Above-Ground Insects-Suppressed	Refuge Requirements	Herbicide Tolerance
Agrisure	Duracade 5222	BCW, CEW, FAW, SB, SWCB		20%	GT, LL
Optimum	Intrasect (YHR)	BCW, FAW, SB, SWCB	CEW	20%	LL, RR2
Optimum	Leptra (VYHR)	BCW, CEW, FAW, SB, SWCB		20%	LL, RR2
Genuity	VT Double PRO	FAW, SB, SWCB	BCW, CEW	20%	RR2
Genuity	VT Double PRO RIB Complete	FAW, SB, SWCB	BCW, CEW	20%	RR2
Genuity	SmartStax	BCW, FAW, SB, SWCB	CEW	20%	LL, RR2
Genuity	Trecepta	BCW, CEW, FAW, SB, SWCB		20%	RR2

Abbreviations used in Table 12: BCW: black cutworm; CEW: corn earworm; FAW: fall armyworm; SB: stalk borer; SWCB: Southwestern corn borer; GT: Glyphosate tolerant; LL: Liberty Link; RR2: Roundup Ready 2

Table 13. Participating seed companies and contact information.

Company	Representative	E-mail	Phone Number
Armor	Jay Middleton	jaymiddleton@armorseed.com	270-832-2133
Augusta	Matthew Rawley	matt.rawley@augustaseed.com	540-255-5902
Bayer CropScience	Blake Edwards	blake.edwards@bayer.com	662-820-6804
BH Genetics	Travis Janak	travisj@bhgenetics.com	361-771-2755
Dyna-Gro	Joe Pankey	joe.pankey@nutrien.com	318-381-3280
LG Seeds	Dan Mitchell	dan.mitchell@lgseeds.com	812-457-3132
Local Seed	Bradley Taylor	bradley.taylor@localseed.com	662-402-1502
Mission Seed	Bryan Olivi	bryan.olivi@pinnacleag.com	662-719-8685
Pioneer	Derek Scroggs	derek.scroggs@pioneer.com	318-542-6051
Progeny	John D. Rocconi	johnr@progenyag.com	979-587-9968
Terral	Marty Hale	mhale@terralseed.com	318-341-8814

Dan D. Fromme, Professor and State Corn Specialist, Dean Lee Research Station, Alexandria
H.J. "Rick" Mascagni Jr., Professor and Research Agronomist, Northeast Research Station, St. Joseph
Josh Copes, Assistant Professor and Research Agronomist, Northeast Research Station, St. Joseph
Bill Waltman, Research Associate and Farm Manager, Red River Research Station, Bossier City
Sebe Brown, Assistant Professor and Entomologist, Dean Lee Research Station, Alexandria
Boyd Padgett, Professor and Plant Pathologist, Dean Lee Research Station, Alexandria
Trey Price, Associate Professor and Plant Pathologist, Macon Ridge Research Station, Winnsboro
Keith Shannon, Research Associate, Dean Lee Research Station, Alexandria
John Stapp, Research Associate, Macon Ridge Research Station, Winnsboro
Dustin Ezell, Research Associate, Macon Ridge Research Station, Winnsboro
Melanie Netterville, Research Associate, Northeast Research Station, St. Joseph
Owen Clark, Research Associate, Northeast Research Station, St. Joseph
Blair Buckley, Associate Professor and Research Agronomist, Red River Research Station, Bossier City



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