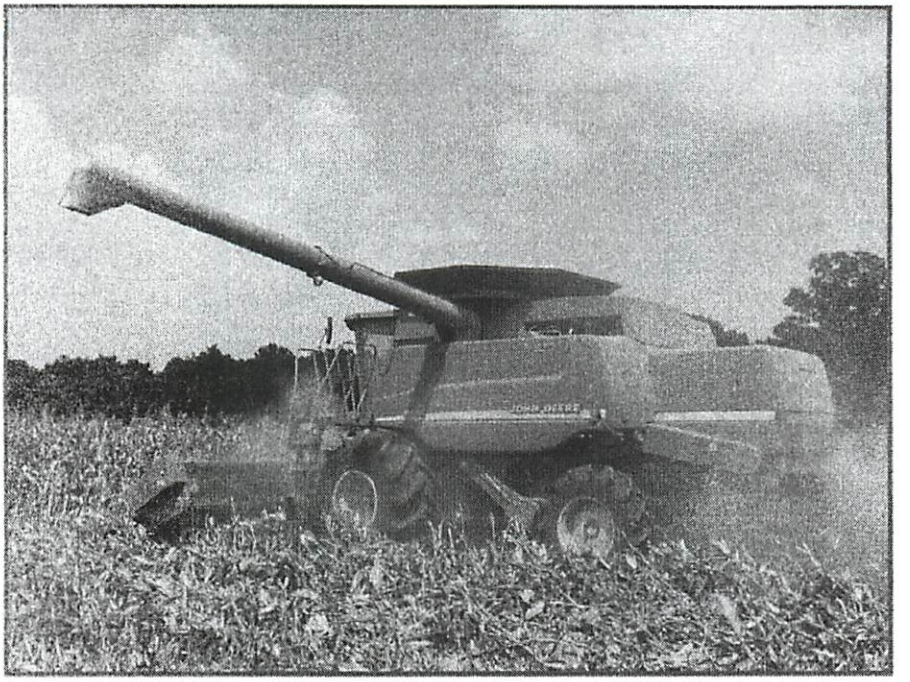
Performance of Corn Hybrids in Louisiana 2013



LAES Research
November 2013

LSU AgCenter
Research & Extension

Performance of Corn Hybrids in Louisiana, 2013

H.J. "Rick"Mascagni, Jr., Ronnie Levy, Sebe Brown, Blair Buckley, Kylie Cater, David Kerns, Josh Lofton, and Bill Waltman

Performance of corn hybrids is annually evaluated by Louisiana Agricultural Experiment Station (LAES) researchers in Official Variety Trials (OVT's). The purpose of these trials is to provide to Louisiana growers, seedsmen, county agents of the Louisiana Cooperative Extension Service (LCES), and other interested individuals and organizations with unbiased performance data for commercial corn hybrids submitted for evaluation by private agencies. The cooperating LAES units in 2013 were: Dean Lee Research Station, Alexandria; Red River Research Station, Bossier City; Northeast Research Station, St. Joseph; and Macon Ridge Research Station, Winnsboro.

The LCES also conducted On-Farm Demonstrations and Core Blocks in 2013 evaluating hybrids on farms around the state. The results from these trials and the OVT's provides information to the grower to help in hybrid selection for their farm.

Procedures

Official Variety Trials: In 2013, 65 corn hybrids were entered in the LAES yield trials. Soil type, cultural practices, location summaries, and weather graphs are listed prior to data tables for each location. In weather graphs, maximum and minimum temperatures are weekly averages and rainfall weekly totals. At St. Joseph, trials were conducted both on Commerce silt loam and Sharkey clay Mississippi River alluvial soils. The Bossier City and Winnsboro trials were furrow irrigated.

The experimental design at each location was a randomized complete block design with four or five replications. Traits measured and rating scales are listed in Table 1. Analysis of variance and least significant differences (LSD) were computed using SAS (Statistical Analysis System). We used the protected F-test, which means LSD's were calculated only if differences among hybrids existed at the 90% confidence level. If differences were significant, a LSD at the 10% probability level was calculated. If the LSD (0.10) for yield in a trial is 10 bu/acre, there is a 10% chance that two hybrids with a reported yield difference of 10 bu/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

---

H.J. "Rick" Mascagni, Jr., and Kylie Cater, Professor/Coordinator and Research Associate, Northeast Research Station, St. Joseph, LA 71366; Sebe Brown, David Kerns, and Josh Lofton, Assistant Area Agent – Northeast Region, Associate Professor, and Assistant Professor, Macon Ridge Research Station, Winnsboro, LA 71295; Blair Buckley and Bill Waltman, Associate Professor and Research Associate, Red River Research Station, Bossier City, LA 71112; Ronnie Levy, Assistant Professor/Specialist, Dean Lee Research Station, Alexandria, LA 71302;

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 a test.

Table 1. Traits and rating scales for LAES official variety trials.

Trait	Abbreviation	Description
Yield	Yield	Grain yield @ 15.5% harvest grain moisture, bu/a (2013)
2-year yield average	2- yr avg	Average grain yield for 2012 and 2013, bu/a
Grain moisture	Gr Mo	Grain moisture at harvest, %
Test weight	Test wt	Volume weight of grain, lb/bu
Plant population	Stand	Number of plants at harvest, plt/a
Mid-silking date	Mid-silk	Date of silk emergence in 50% of plants in plots, days after planting (DAP)
Plant height	Plt ht	Height from ground to flag leaf, inches
Ear height	Ear ht	Height from ground to where primary ear attaches to the plant, inches
Husk cover	HC	Measure of how well the kernels are covered by the husk, with ratings of 1-3; 1- closed and 3- open husk
Kernel weight	Ker wt	Grams/100 kernels
Kernels per ear (ear size)	KPE	Number of kernels/ear

Results

Official Variety Trials: Yield data for 2013 and two-year averages (2012 and 2013) and other agronomic data for each location are presented in Tables 2-6. To be considered for a two-year average, hybrids must have the same seed traits each year (refer to Table 8). Yields for the hybrids in the highest-yielding group for 2013 (yields falling within one LSD value) are in bold print. Hybrids in bold print with a single asterisk are in the highest-yielding group for both years, 2012 and 2013. Yield summary across Louisiana for 2013 is presented in Table 7, seed traits and hybrid maturities are listed in Table 8, and participating seed companies are listed in Table 9. Ratings for corn earworm damage were taken; however, not reported due to minimal corn earworm pressure in 2013. Temperatures for the Macon Ridge location were also used for the Northeast Research Station. There were eleven seed companies that participated in the 2013 corn hybrid performance trials.

For additional information on corn trials, please contact Dr. Rick Mascagni, Northeast Research Station, P.0. Box 438, St. Joseph, LA 71366 (Ph: 318-766-3769; Fax: 318-766-4278; e-mail: hmascagni@agcenter.lsu.edu); or the coordinator at a specific location, Ronnie Levy, Dean Lee Research Station, Alexandria, LA 71302 (Ph: 318-473-6524, Fax: 318-473-6535, e:mail: rlevy@agcenter.lsu.edu); Blair Buckley, Red River Research Station, Bossier City, LA 71113 (Ph: 318-741-7430, Fax 318-741-7433, e:mail: bbuckley@agcenter.lsu.edu).

Table 2. Summary of yield performance of corn hybrids at five locations in the 2013 LAES official variety trials.

Brand/Hybrid	Alex	BC	St. Joseph		WN	Avg
			Com sil	Shar cl		
			bu/a			
Armor 1133PRO2	186.3	224.2	192.1	139.6	190.9	186.6
Armor 1262PRO2	177.1	188.6	183.6	144.7	168.9	172.6
Armor 1550PRO2	190.6	198.1	201.5	142.7	172.1	181.0
Armor 1555SS	208.7	205.2	197.8	119.6	179.1	182.1
Armor 1880PRO2	208.5	215.5	207.7	151.6	183.0	193.3
BH Genetics 8550VT2P	190.5	172.7	195.0	143.5	181.4	176.6
BH Genetics 8700SS	215.8	206.3	212.2	126.1	188.8	189.8
BH Genetics 8732VTTP	197.3	213.1	204.4	141.1	186.8	188.5
BH Genetics 8735VTTP	217.7	182.2	213.0	150.2	195.6	191.7
BH Genetics 8830VTTP	201.0	225.1	196.2	139.4	194.4	191.2
BH Genetics 8900GT3	215.1	198.1	203.6	144.8	191.1	190.5
BH Genetics 8928VTTP	202.5	202.0	198.5	140.6	169.1	182.5
Croplan Genetics CG6640VT3P	224.7	209.9	212.0	140.3	200.7	197.5
Croplan Genetics CG6926RR	188.9	170.8	186.2	134.8	169.4	170.0
Croplan Genetics CG6960VT3P	205.5	196.7	221.6	144.1	181.6	189.9
Croplan Genetics CG8410VT3P	200.7	173.8	191.9	132.6	183.3	176.5
Croplan Genetics CG8621VT2P	190.7	184.3	192.8	140.4	191.8	180.0
Dekalb DKC61-78	179.8	190.4	205.2	135.3	171.9	176.5
Dekalb DKC61-88	199.2	147.7	209.9	130.3	173.1	172.0
Dekalb DKC62-08	207.8	212.6	201.2	135.2	198.1	191.0
Dekalb DKC64-69	213.7	201.9	190.0	138.9	186.6	186.2
Dekalb DKC66-40	199.1	183.6	199.3	153.2	196.4	186.3
Dekalb DKC66-87	197.4	190.8	229.4	153.6	202.3	194.7
Dekalb DKC66-97	195.2	214.6	209.6	144.9	187.2	190.3
Dekalb DKC67-57	197.8	196.4	183.0	145.1	192.8	183.0
Dekalb DKC69-29	211.0	207.7	207.9	147.7	206.2	196.1
Delta Grow DG1660	182.0	167.4	175.4	127.6	169.4	164.4
Delta Grow DG2788GTCBLL	192.4	193.5	190.1	138.8	172.3	177.4
Delta Grow DG2888GTCBLL	193.7	175.9	189.0	134.6	162.2	171.1
Delta Grow DG3660VIP	218.2	231.3	213.3	145.4	191.2	199.9
Delta Grow DG3788GTCBLL	205.5	154.1	173.2	137.0	181.3	170.2
Delta Grow DG6160VIPGTCBLL	204.3	198.8	201.5	138.0	183.7	185.3
Dyna-Gro D52VC91	207.7	205.8	194.2	139.6	181.5	185.8
Dyna-Gro D53VC13	190.0	193.5	180.4	136.6	185.7	177.2
Dyna-Gro D54VP81	196.5	194.4	197.4	151.4	173.8	182.7
Dyna-Gro D55VP77	217.0	207.3	197.2	129.5	179.8	186.2
Dyna-Gro D56VC46	218.3	234.5	213.1	138.0	186.0	198.0
Dyna-Gro D57VP51	211.1	232.9	213.7	145.0	169.2	194.4
Golden Acres 26V21	214.5	180.2	203.1	140.9	176.7	183.1
Golden Acres G6611	214.6	207.5	208.7	146.4	196.3	194.7

Brand/Hybrid	Alex	BC	St. Joseph		WN	Avg
			Com sil	Shar cl		
			bu/a			
Golden Acres G7601	205.5	199.0	199.8	149.0	192.2	189.1
Mycogen 2A787	206.4	167.2	209.9	122.7	163.7	174.0
Mycogen 2C786	202.9	200.9	197.0	149.8	188.6	187.8
Mycogen 2J794	208.5	205.2	191.2	142.7	190.4	187.6
Mycogen 2P886	207.0	191.3	174.4	117.7	172.0	172.5
Mycogen 2V707	221.2	183.5	191.1	139.6	183.7	183.8
Mycogen 2V714	207.4	204.1	192.4	135.7	188.8	185.7
Mycogen 2Y811	201.5	205.0	192.3	148.5	177.4	184.9
Mycogen 2Y816	200.8	206.0	190.9	143.1	171.4	182.4
Pioneer P1105YHR	178.7	193.8	203.5	137.0	179.2	178.4
Pioneer P1685YHR	228.1	219.5	220.2	132.5	156.6	191.4
REV® 17HR73™	188.9	186.2	191.1	151.6	179.4	179.4
REV® 18BHR84™	208.6	210.4	207.6	136.7	182.0	189.1
REV® 22BHR21™	199.1	212.5	204.0	147.5	174.5	187.5
REV®22BHR43™	203.3	216.2	209.1	160.1	196.1	197.0
REV®22BHR54™	181.7	156.8	189.6	144.0	173.7	169.2
REV®24BHR93™	211.1	200.7	219.0	153.3	199.3	196.7
REV®25BHR44™	207.2	222.6	209.4	131.2	204.8	195.0
REV®26BHR50™	228.7	206.7	224.5	143.8	192.1	199.2
REV®27HR83™	195.5	191.0	218.7	144.2	190.7	188.0
REV®28HR20™	238.3	177.9	217.2	137.6	186.8	191.6
REV®28R10™	215.0	196.2	213.7	154.0	201.1	196.0
Triumph TR1725H	208.0	225.9	192.1	128.5	185.8	188.1
Triumph TRX11832X	190.8	189.8	185.8	124.1	171.4	172.4
Triumph TRX21366S	188.6	201.6	189.2	141.8	176.9	179.6
Average	**202.8**	**196.9**	**200.0**	**140.3**	**183.3**	

On - Farm Corn Demonstration Core Blocks:

Table 3: Summary of corn hybrid demonstrations at twenty locations identified by parish. Yield expressed in dry bushels per acre (15.5% Moisture)

	Avoyelles	Avoyelles - 2	Beauregard	Caddo	Caldwell	East Carroll	Evangeline	Franklin	Madison - 1	Madison - 2	Morehouse	Ouachita	Pt. Coupee - 1	Pt. Coupee - 2	Pt. Coupee 3	Rapides	Richland	St. Landry	Tensas	West Carroll
Stacked Hybrids:																				
Armor 1262 PRO	205	208	203	197	183	187	207	198	168	188	219	219	188	227		171	234	211	217	220
Armor 1550 PRO	215	206	211	208	187	213	217	213	171	191	224	231	170		214	163	243	205	229	178
Dekalb DKC 62-08	211	221	211	197	196	183	228	227	191	206	214	241	196	241		157	233	227	253	208
Dekalb DKC 69-29 VT	206	225	221	199		191	213	225	188	218	194	227	191	253		174	223	221	252	219
Dyna Gro D55VP77	213	225	228	192	189	154	202	226	178	194	217	237	187		232	156	225	198	265	230
Dyna Gro D57VP51	222	235	214	192	206	206	225	245	184	219	218	246	185	246		185	225	228	245	221
Mycogen 2P886	203	197	185	161	193	208	238	226	158	205	217	226	169	236		154	238	197	230	209
Mycogen 2V714	198	205	218	184	186	185	209	214	177	218	218	229	199		220	172	250	212	240	213
Pioneer P1319HR		228			197	191		226	176	218	222	233	209	268			252	218	246	217
Pioneer P1690 YHR		235		207	215	183		239	171	225	223	247	222		213		250	211	251	220
Syngenta NK N74R3000GT	214	200	209	196	173	206	215	221	167	209	216	214	197	274		156	233	213	247	196
Syngenta NK N78S3111	218	212	224	182	189	200	195	219	170	229	215	226	195	266			230	198	246	211
Terral REV 26BHR50	211	238	234	199	202	218	230	249	170	210	223	252	219	264		188	260	197	275	227
Terral REV 28HR20	217	219	218	209	197	208	234	233	175	220	223	260	226		215	167	252	187	268	217
Non-Stacked Hybrids:																				
Dyna-Gro D55GT73	215	203	195	167	194	194	206	229	183	236	217	230	211	249		155	239	211	240	214
Mycogen 2A782		213	221	178	181	200		239	176	213	210	222	195	275		169		172		227
Mycogen 2Y811		222	183	174	182	206		228	163	225	213	218	199		200	166		179		223
Pioneer 1690R		223			183			243	170	207	224	240	224	245				197		222
Terral REV 28R10	216	214	214	189	186	208	227	252	173	216	218	221	219		220	179		158		225
Other Hybrids:																				
B-H 8550VT															223					
B-H 8700VT2P													208	270						
B-H 8844VTTP													210		170					
B-H 8900GT3LR22													208							
Croplan 6425 VT3																	211			
Croplan 6640 VT3																	239			
CropLan 6640VT3/P																				227
Croplan 8410VT	222	208																		235
CropLan 8621VT2P MR	216																			226
Pioneer P1319 HR												229								
Pioneer P1685 HR												242								
Pioneer P1739 HR				213								237								
Stine R9731VT3 Pro							210													
Stine R9732VT3 Pro							188													
Stine R9734VT3 Pro							189													
Stine R9739VT3 Pro							206													
Syngenta NK N72Q3111				186																
Terral 27HR83												230								

Corn Hybrid Performance Trial at the Dean Lee Research Station – Alexandria

Location Summary

Rainfall was about normal in April, May, and June, with below normal rainfall in July in this dryland trial. Yields ranged from 177.1 to 238.3 bu/acre, with a trial average of 202.8 bu/acre (Table 2). Forty of the sixty-five hybrids had yields greater than 200 bu/acre. Nineteen hybrids had two-year averages. Four hybrids fell within the highest-yielding group in 2013. Test weights were excellent averaging 59.4 lb/bu.

Soil type	Coushatta silt loam
Tillage	Subsoiled and hipped in fall,, with no spring cultivation.
Row spacing	38 inches
Seeding rate	32,000 seed/acre
Previous crop	Soybeans
Planting date	March 14
Fertilization	*Fall:* 175 lb 0-18-36/acre *Sidedress:* 200 lb N/acre (30-0-0-2) and 2 qts of Trafix Zn/acre applied foliarly, 4/22 and 5/9.
Pesticides	*Preemerge*: 16 oz/acre of Charger Max, 40 oz/acre of Atrazine, and 4 oz/acre of Grizzly Z.
Harvest date	August 26

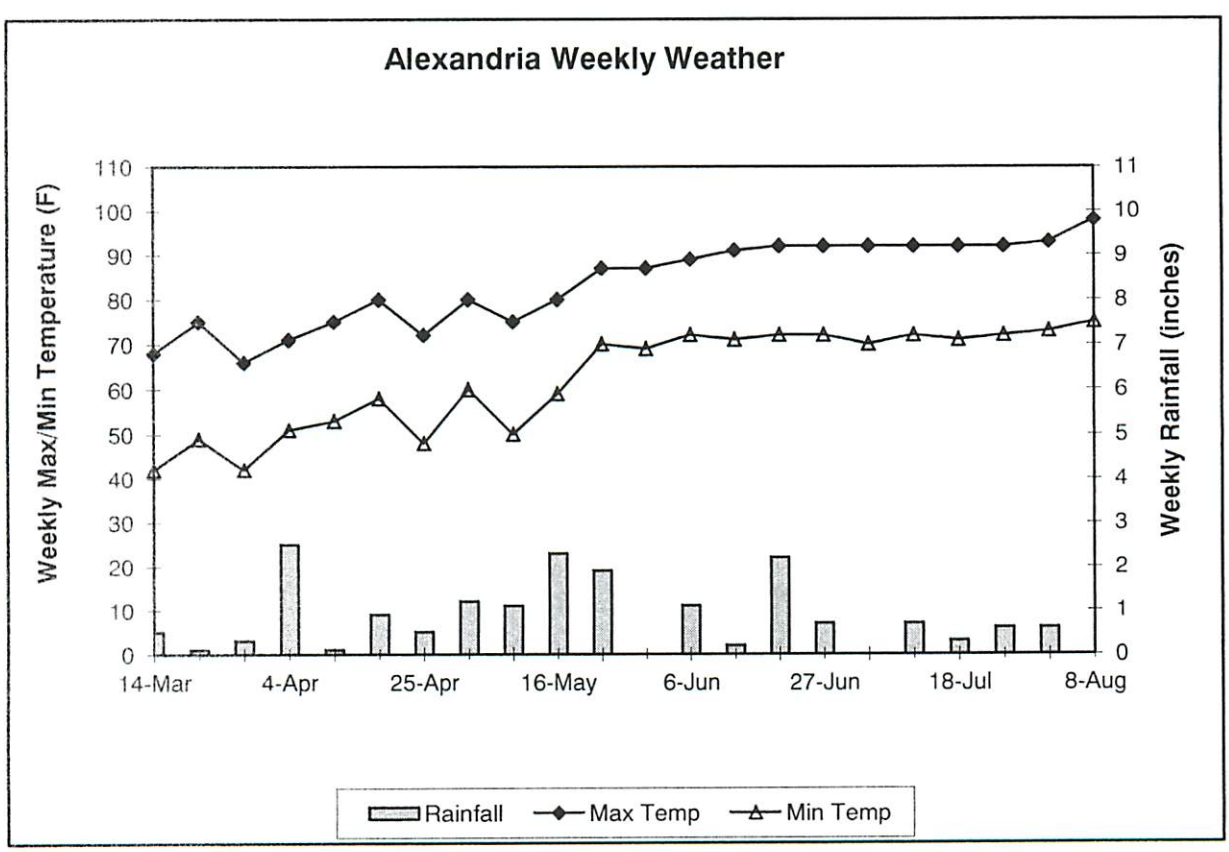


Table 4. Performance of corn hybrids at Alexandria, 2013.

Brand/hybrid	2013 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Stand	Plt ht	Ear ht	HC
	bu/a	bu/a	%	lb/bu	plt/a	in	in	1-3
REV®28HR20™	**238.3**	197.6	17.0	61.6	29,580	107	51	2
REV®26BHR50™	**228.7**	-	17.1	60.7	27,520	93	45	1
Pioneer P1685YHR	**228.1**	-	16.5	58.6	29,580	99	49	2
Croplan Genetics CG6640VT3P	**224.7**	-	16.1	59.3	29,070	89	41	2
Mycogen 2V707	221.2	-	15.9	54.7	27,860	87	42	2
Dyna-Gro D56VC46	218.3	-	17.0	59.7	24,080	85	45	2
Delta Grow DG3660VIP	218.2	-	16.8	58.8	21,160	101	43	1
BH Genetics 8735VTTP	217.7	-	15.8	65.3	24,420	103	46	2
Dyna-Gro D55VP77	217.0	188.2	15.6	62.6	29,930	91	41	3
BH Genetics 8700SS	215.8	-	16.4	59.0	28,900	93	44	2
BH Genetics 8900GT3	215.3	-	16.4	61.4	25,290	98	50	1
REV®28R10™	215.0	184.3	16.7	60.0	27,180	93	41	2
Golden Acres G6611	214.6	-	16.3	58.0	28,040	104	46	1
Golden Acres 26V21	214.5	187.1	17.1	59.2	28,380	82	42	2
Dekalb DKC64-69	213.7	190.6	16.0	59.9	30,440	92	45	1
Dyna-Gro D57VP51	211.1	197.5	15.9	60.0	21,160	78	34	3
REV®24BHR93™	211.1	-	15.7	58.6	26,140	102	51	3
Dekalb DKC69-29	211.0	180.6	16.5	59.0	26,490	77	42	3
Armor 1555SS	208.7	-	16.6	57.0	28,720	94	41	3
REV® 18BHR84™	208.6	-	15.4	56.5	28,550	85	39	3
Mycogen 2J794	208.5	-	16.9	52.8	31,650	105	57	1
Armor 1880PRO2	208.5	-	16.1	58.3	23,560	83	40	2
Triumph TR1725H	208.0	-	16.9	57.1	25,280	103	54	2
Dekalb DKC62-08	207.8	-	15.2	58.3	29,240	87	43	1
Dyna-Gro D52VC91	207.7	-	15.6	59.0	26,490	99	50	2
Mycogen 2V714	207.4	-	15.5	57.7	29,240	90	45	2
REV®25BHR44™	207.2	-	16.3	58.4	30,620	106	47	2
Mycogen 2P886	207.0	-	19.1	60.0	25,800	83	44	1
Mycogen 2A787	206.4	-	16.1	55.0	30,960	83	47	3
Delta Grow DG3788GTCBLL	205.5	181.8	17.2	59.4	29,580	100	49	2
Golden Acres G7601	205.5	-	16.4	57.7	30,270	87	43	1
Croplan Genetics CG6960VT3P	205.5	175.3	16.1	57.6	25,800	95	42	3
Delta Grow DG6160VIPGTCBLL	204.3	-	15.9	58.5	29,410	94	44	3
REV®22BHR43™	203.3	175.5	15.9	60.4	24,770	90	45	3
Mycogen 2C786	202.9	-	15.6	57.6	26,320	87	49	1
BH Genetics 8928VTTP	202.5	187.8	16.4	59.8	28,040	88	43	3
Mycogen 2Y811	201.5	-	17.1	58.6	29,410	88	40	3
BH Genetics 8830VTTP	201.0	-	16.2	82.7	23,220	98	52	2
Mycogen 2Y816	200.8	-	17.0	57.3	27,350	95	49	1
Croplan Genetics CG8410VT3P	200.7	178.9	15.6	66.8	25,110	85	35	3
Dekalb DKC61-88	199.2	173.0	15.2	56.3	28,380	83	44	1

Brand/hybrid	2013 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Stand	Plt ht	Ear ht	HC
	bu/a	bu/a	%	lb/bu	plt/a	in	in	1-3
REV® 22BHR21™	199.1	-	15.9	57.1	29,410	101	43	1
Dekalb DKC66-40	199.1	-	15.7	56.9	21,840	92	43	3
Dekalb DKC67-57	197.8	181.4	15.9	60.2	25,630	80	41	1
Dekalb DKC66-87	197.4	-	15.5	56.8	23,910	88	44	3
BH Genetics 8732VTTP	197.3	-	16.5	60.1	27,860	92	43	2
Dyna-Gro D54VP81	196.5	178.3	16.5	56.4	23,050	90	43	3
REV®27HR83™	195.5	173.7	15.7	60.1	25,110	101	52	2
Dekalb DKC66-97	195.2	170.4	15.6	58.8	27,350	89	38	3
Delta Grow DG2888GTCBLL	193.7	175.7	16.3	60.0	24,940	90	43	2
Delta Grow DG2788GTCBLL	192.4	-	16.3	69.6	19,780	88	43	2
Triumph TRX11832X	190.8	-	17.1	57.4	25,460	92	50	1
Croplan Genetics CG8621VT2P	190.7	-	16.0	55.9	26,830	87	43	1
Armor 1550PRO2	190.6	-	16.5	55.4	25,800	85	43	2
BH Genetics 8550VT2P	190.5	-	15.0	67.1	25,630	89	47	3
Dyna-Gro D53VC13	190.0	-	15.7	58.6	28,720	85	42	3
REV® 17HR73™	188.9	-	16.0	59.4	28,720	94	44	2
Croplan Genetics CG6926RR	188.9	-	15.7	63.2	23,220	79	38	2
Triumph TRX21366S	188.6	-	15.9	57.0	27,690	83	44	1
Armor 1133PRO2	186.3	-	15.2	60.4	27,000	102	49	2
Delta Grow DG1660	182.0	-	15.0	60.2	25,280	105	47	2
REV®22BHR54™	181.7	-	15.9	56.2	26,660	92	47	2
Dekalb DKC61-78	179.8	-	15.4	57.1	26,490	92	41	2
Pioneer P1105YHR	178.7	-	16.1	57.1	22,020	94	43	3
Armor 1262PRO2	177.1	159.4	15.8	60.2	25,630	83	42	2
Average	**202.8**	**-**	**16.1**	**59.4**	**26,670**	**91**	**44**	**2**
CV,%	**6**	**-**	**3**	**13**	**12**	**7**	**7**	**36**
LSD (0.10)	**15**	**-**	**0.5**	**NS[3]**	**NS**	**10**	**5**	**1**

[1]Yields in bold denote hybrids that are in the highest-yielding group in 2013.

[2]There were no hybrids in the highest-yielding group in both years, 2012 and 2013.

[3]NS = Non-significant at the 0.10 probability level

Corn Hybrid Performance Trial at the Red River Research Station – Bossier City

Location Summary

Rainfall was low in May and July (see below). This trial was furrow irrigated four times. Yields ranged from 147.7 to 234.5 bu/acre, with a trial average of 196.9 bu/acre (Table 3). There was only one-year of yield data, since data was from this location was not reported in 2012. Thirty-four of the sixty-five hybrids had yields greater than 200 bu/acre. Twenty hybrids fell within the highest-yielding group in 2013. Other agronomic data is presented in Table 3.

Soil type	Moreland silty clay loam
Tillage	Conventional, with no spring tillage.
Row spacing	38 inches
Seeding rate	32,000 seed/acre
Previous crop	Soybeans
Planting date	March 18
Fertilization	Sidedress: 200 lb N/acre (30-0-0-2)
Pesticides	*Preemerge:* 1 qt/a of Atrazine, 1.3 pt/a of Dual, and 2 oz/a of Karate Z. *Postemerge*: 1.5 oz/acre of Steadfast plus surfactant; 1 oz/acre of Aim plus surfactant (post direct); 18 oz/acre of Gramoxone (post direct)
Harvest date	August 27/28

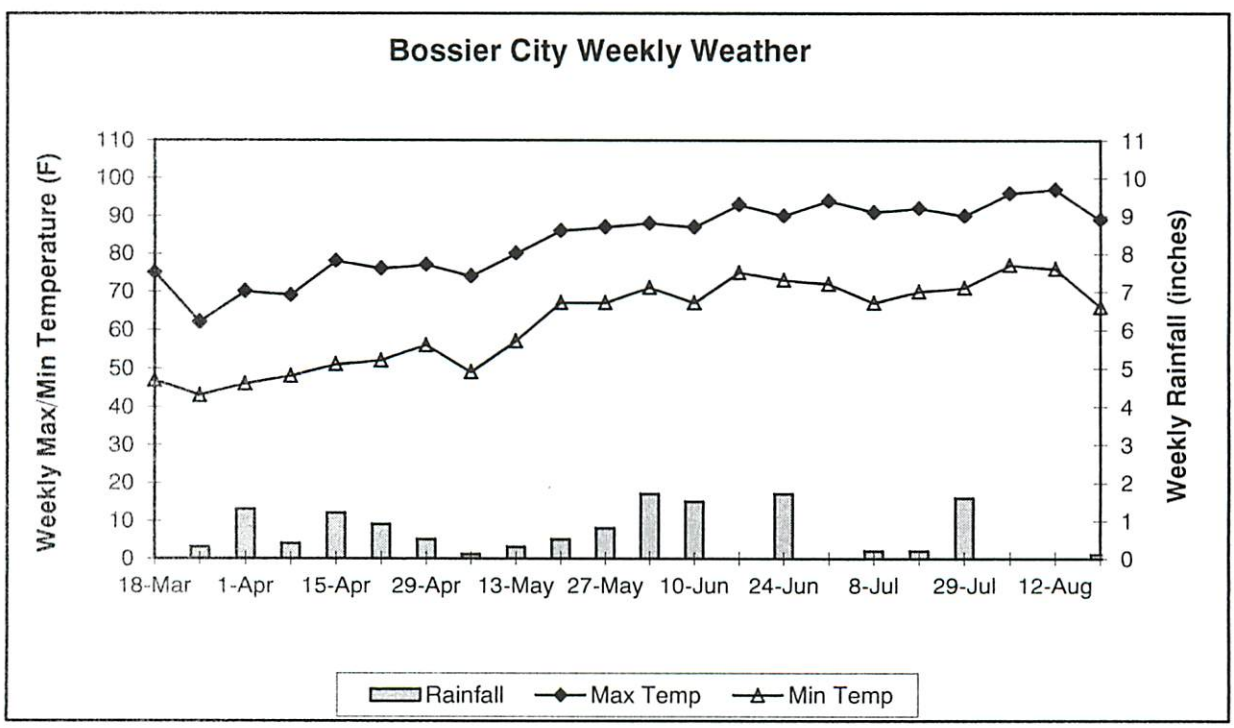


Table 5. Performance of corn hybrids at Bossier City, 2013.

Brand/hybrid	2013 Yield[1]	Gr mo	Test wt	Stand	Mid-silk	Plt ht	Ear ht	HC
	bu/a	%	lb/bu	plt/a	DAP	in	in	1-3
Dyna-Gro D56VC46	**234.5**	13.5	61.3	21,330	78	88	31	1
Dyna-Gro D57VP51	**232.9**	12.6	59.4	22,330	77	86	36	1
Delta Grow DG3660VIP	**231.3**	13.3	59.9	23,670	79	99	40	1
Triumph TR1725H	**225.9**	13.9	65.7	22,000	82	107	49	1
BH Genetics 8830VTTP	**225.1**	13.4	58.1	25,000	79	100	43	2
Armor 1133PRO2	**224.2**	12.6	58.6	22,500	81	102	44	2
REV®25BHR44™	**222.6**	13.6	61.3	21,000	85	106	44	2
Pioneer P1685YHR	**219.5**	13.3	60.0	26,000	84	106	46	2
REV®22BHR43™	**216.2**	12.8	59.7	23,670	77	103	38	1
Armor 1880PRO2	**215.5**	12.3	57.9	20,330	79	85	37	2
Dekalb DKC66-97	**214.6**	12.5	60.9	27,000	78	88	38	2
BH Genetics 8732VTTP	**213.1**	13.6	60.1	21,000	82	83	29	1
Dekalb DKC62-08	**212.6**	12.5	59.4	25,000	75	88	40	1
REV® 22BHR21™	**212.5**	12.7	61.0	24,000	80	100	42	1
REV® 18BHR84™	**210.4**	12.4	69.5	23,000	78	92	37	2
Croplan Genetics CG6640VT3P	**209.9**	13.3	59.6	23,000	75	85	38	2
Dekalb DKC69-29	**207.7**	13.0	60.3	23,330	77	90	36	1
Golden Acres G6611	**207.5**	12.4	58.1	23,000	80	100	40	1
Dyna-Gro D55VP77	**207.3**	13.9	61.5	22,000	76	85	40	1
REV®26BHR50™	**206.7**	13.2	64.6	25,670	85	102	38	1
BH Genetics 8700SS	206.3	12.3	59.5	24,330	77	95	38	2
Mycogen 2Y816	206.0	14.0	58.4	23,670	84	101	43	1
Dyna-Gro D52VC91	205.8	12.7	59.8	25,330	82	98	45	2
Mycogen 2J794	205.2	13.8	59.0	22,330	81	106	48	1
Armor 1555SS	205.2	13.2	61.3	24,330	76	90	33	1
Mycogen 2Y811	205.0	12.7	58.9	25,330	80	87	32	2
Mycogen 2V714	204.1	12.3	57.7	22,330	81	93	40	1
BH Genetics 8928VTTP	202.0	12.5	59.0	25,330	79	96	40	1
Dekalb DKC64-69	201.9	13.0	65.5	22,670	76	84	35	2
Triumph TRX21366S	201.6	12.5	58.2	26,000	79	88	42	2
Mycogen 2C786	200.9	13.7	57.6	24,670	79	91	45	1
REV®24BHR93™	200.7	12.9	59.8	23,000	84	99	43	2
Golden Acres G7601	199.0	12.8	59.2	24,670	78	90	38	1
Delta Grow DG6160VIPGTCBLL	198.8	13.5	60.2	22,670	78	99	37	1
BH Genetics 8900GT3	198.1	12.7	58.1	32,500	82	100	45	1
Armor 1550PRO2	198.1	12.8	58.5	26,000	77	91	37	2
Croplan Genetics CG6960VT3P	196.7	13.6	61.8	21,330	75	89	33	1
Dekalb DKC67-57	196.4	12.6	60.4	24,330	75	82	35	1
REV®28R10™	196.2	13.3	60.3	25,000	86	106	45	2
Dyna-Gro D54VP81	194.4	12.7	58.9	25,000	78	91	38	2
Pioneer P1105YHR	193.8	12.5	59.5	24,000	77	101	44	2

Brand/hybrid	2013 Yield[1]	Gr mo	Test wt	Stand	Mid-silk	Plt ht	Ear ht	HC
	bu/a	%	lb/bu	plt/a	DAP	in	in	1-3
Delta Grow DG2788GTCBLL	193.5	13.2	60.2	21,000	82	93	40	1
Dyna-Gro D53VC13	193.5	12.7	60.9	23,000	75	86	32	1
Mycogen 2P886	191.3	12.4	58.0	23,330	80	91	41	2
REV®27HR83™	191.0	12.5	60.4	23,670	83	102	42	2
Dekalb DKC66-87	190.8	12.9	58.4	25,330	77	89	37	1
Dekalb DKC61-78	190.4	12.4	59.7	23,330	75	89	35	1
Triumph TRX11832X	189.8	14.4	59.7	24,330	84	111	46	3
Armor 1262PRO2	188.6	12.3	58.8	27,670	75	89	35	2
REV® 17HR73™	186.2	12.4	58.0	25,670	76	90	37	2
Croplan Genetics CG8621VT2P	184.3	12.3	57.9	21,670	83	95	41	2
Dekalb DKC66-40	183.6	12.3	61.0	25,670	82	92	38	3
Mycogen 2V707	183.5	12.3	56.4	22,330	78	91	39	1
BH Genetics 8735VTTP	182.2	13.2	60.1	23,000	81	102	43	1
Golden Acres 26V21	180.2	12.7	59.3	26,670	77	88	37	1
REV®28HR20™	177.9	13.1	61.2	23,670	86	107	49	2
Delta Grow DG2888GTCBLL	175.9	12.9	60.5	23,670	76	85	35	1
Croplan Genetics CG8410VT3P	173.8	12.4	59.4	24,000	83	86	33	1
BH Genetics 8550VT2P	172.7	15.7	58.6	23,330	85	111	48	3
Croplan Genetics CG6926RR	170.8	12.7	61.1	24,000	73	87	36	2
Delta Grow DG1660	167.4	14.3	61.4	23,000	83	104	43	1
Mycogen 2A787	167.2	12.2	56.6	24,670	81	90	42	2
REV®22BHR54™	156.8	12.9	57.9	25,000	84	92	39	2
Delta Grow DG3788GTCBLL	154.1	13.1	60.7	22,330	80	94	41	2
Dekalb DKC61-88	147.7	12.2	58.5	27,330	79	86	34	2
Average	**196.9**	**13.0**	**59.9**	**23,890**	**80**	**94**	**39**	**2**
CV,%	**11**	**3**	**5**	**11**	**3**	**5**	**10**	**27**
LSD (0.10)	**27.9**	**0.6**	**4.3**	**3,570**	**3**	**6**	**5**	**1**

[1]Yields in bold denote hybrids that are in the highest-yielding group in 2013.
Note: Data from the 2012 trial was not reported, so there is no two-year yield average.

Corn Hybrid Performance Trial on Commerce Silt Loam at the Northeast Research Station – St. Joseph

Location Summary

Rainfall was timely in April and early May and sporadic in June and July in this dryland trial (see below). Yields ranged from 173.2 to 229.4 bu/acre, with a trial average of 200.0 bu/acre (Table 4). Thirty two of the sixty-five hybrids had yields greater than 200 bu/acre. Seven hybrids fell within the highest-yielding group in 2013 and two hybrids, REV®27HR83™ and REV®28HR20™, were in the highest yielding group in both years, 2012 and 2013. Kernel weight ranged from 28.2 to 4.7 grams/100 kernels, with a trial average of 39.5 grams/100 kernels. Ear size ranged from 367 to 546 kernels/ear (KPE), with a trial average of 434 kernels/ear.

Soil type	Commerce silt loam
Tillage	Conventional prior to planting, with no spring cultivation.
Row spacing	40 inches
Seeding rate	32,000 seed/acre
Previous crop	Cotton
Planting date	March 15
Fertilization	*At planting*: 5 gal 10-34-0/acre (7 gal total volume/acre) plus 0.6 lb/acre of Zn (EDTA) – In furrow starter; *Sidedress:* 200 lb N/acre (30-0-0-2)
Pesticides	*Preemerge*: 1.5 qt/acre of Atrazine, 1 pt/acre of Dual, and 1 oz/acre of Discipline; *Postemerge*: 1.5 oz/acre of Steadfast, 1 qt/acre of Atrazine, and 1% crop oil
Harvest date	August 19-20

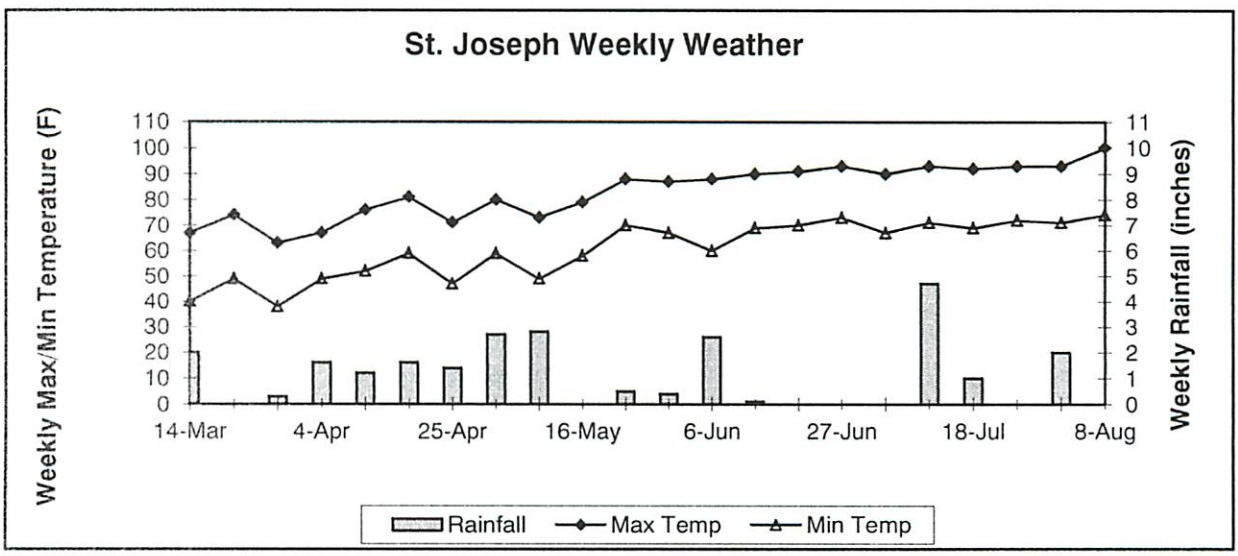


Table 6. Performance of corn hybrids on Commerce silt loam at St. Joseph, 2013.

Brand/hybrid	2013 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Stand	Mid-silk	Plt ht	Ear ht	HC	Ker wt[3]	KPE[4]
	bu/a	bu/a	%	lb/bu	plt/a	DAP	in	in	1-3		
Dekalb DKC66-87	**229.4**	-	15.7	59.7	31,730	75	73	32	1	42.3	407
REV®26BHR50™	**224.5**	-	16.9	62.9	30,670	79	82	37	1	44.2	423
Croplan Genetics CG6960VT3P	**221.6**	200.0	16.9	61.0	30,640	73	76	30	2	40.7	443
Pioneer P1685YHR	**220.2**	-	16.7	59.0	34,990	81	81	41	1	40.3	412
REV®24BHR93™	**219.0**	-	16.6	59.9	29,930	77	77	35	1	42.1	440
REV®27HR83™ *	**218.7**	212.8	15.8	60.5	29,360	76	83	38	2	42.7	432
REV®28HR20™ *	**217.2**	212.9	17.2	61.2	27,880	81	84	39	1	41.5	443
Dyna-Gro D57VP51	213.7	191.5	16.1	59.5	30,670	75	70	31	2	42.3	436
REV®28R10™	213.7	203.6	16.8	61.3	27,470	79	80	38	2	42.7	481
Delta Grow DG3660VIP	213.3	-	16.6	59.9	29,270	76	75	35	1	40.1	429
Dyna-Gro D56VC46	213.1	-	17.0	60.1	29,270	74	70	31	1	38.8	471
BH Genetics 8735VTTP	213.0	-	16.3	60.8	32,700	79	77	36	2	40.0	419
BH Genetics 8700SS	212.2	-	17.0	60.4	29,930	78	67	29	2	43.2	399
Croplan Genetics CG6640VT3P	212.0	-	15.8	60.1	30,280	76	62	30	1	36.8	503
Mycogen 2A787	209.9	-	16.1	58.6	30,670	75	72	31	3	39.9	449
Dekalb DKC61-88	209.9	197.6	15.3	58.2	29,360	73	75	32	3	40.7	438
Dekalb DKC66-97	209.6	200.4	15.6	61.5	29,930	74	73	30	1	41.3	427
REV®25BHR44™	209.4	-	16.3	61.4	31,820	79	81	39	2	36.7	426
REV®22BHR43™	209.1	200.3	15.4	62.3	31,730	76	78	37	2	38.4	436
Golden Acres G6611	208.7	-	16.6	58.8	28,540	76	69	32	2	38.8	453
Dekalb DKC69-29	207.9	201.8	17.1	61.4	28,780	76	70	30	1	40.4	435
Armor 1880PRO2	207.7	-	16.0	58.8	26,490	77	76	39	2	41.8	446
REV® 18BHR84™	207.6	-	15.1	58.5	32,140	75	75	29	2	37.6	445
Dekalb DKC61-78	205.2	-	15.7	58.5	33,950	72	72	32	3	40.5	394
BH Genetics 8732VTTP	204.4	-	16.5	60.0	28,040	78	77	36	1	44.0	419
REV® 22BHR21™	204.0	-	15.5	61.5	31,980	78	84	37	1	38.7	432
BH Genetics 8900GT3	203.6	-	17.2	58.5	29,850	75	79	37	1	38.9	437
Pioneer P1105YHR	203.5	-	15.7	60.1	28,290	75	78	36	2	35.4	488
Golden Acres 26V21	203.1	187.0	17.7	56.8	27,140	75	77	34	1	38.4	501
Delta Grow DG6160VIPGTCBLL	201.5	-	16.9	60.5	28,290	75	76	38	1	44.4	406
Armor 1550PRO2	201.5	-	16.6	60.1	26,650	74	73	31	2	40.5	453
Dekalb DKC62-08	201.2	-	16.1	59.7	31,320	74	70	36	2	41.4	385
Golden Acres G7601	199.8	-	16.6	58.3	28,540	76	75	38	1	41.9	416
Dekalb DKC66-40	199.3	-	16.0	59.7	29,190	76	76	36	3	41.3	427
BH Genetics 8928VTTP	198.5	201.8	16.0	59.3	32,390	78	80	44	1	39.2	391
Armor 1555SS	197.8	-	17.7	60.6	28,210	74	68	29	1	41.9	427
Dyna-Gro D54VP81	197.4	188.6	16.8	60.5	31,820	74	70	28	1	42.1	404
Dyna-Gro D55VP77	197.2	194.4	16.7	60.4	29,770	74	70	29	2	38.6	421
Mycogen 2C786	197.0	-	14.9	58.0	31,650	79	74	40	1	41.3	393
BH Genetics 8830VTTP	196.2	-	15.5	60.2	28,860	76	75	38	1	43.0	409
BH Genetics 8550VT2P	195.0	-	15.5	59.5	29,770	72	72	31	3	38.7	406
Dyna-Gro D52VC91	194.2	-	16.0	61.0	26,900	77	69	30	2	38.5	472
Croplan Genetics CG8621VT2P	192.8	-	16.0	57.6	27,310	75	74	35	3	40.2	448
Mycogen 2V714	192.4	-	15.1	56.8	32,620	81	74	41	2	35.0	429
Mycogen 2Y811	192.3	-	17.4	59.2	28,410	80	79	37	1	37.6	431
Armor 1133PRO2	192.1	-	15.0	50.6	30,010	74	75	32	3	36.6	483
Triumph TR1725H	192.1	-	17.3	56.4	30,560	77	79	41	1	38.0	380

Brand/hybrid	2013 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Stand	Mid-silk	Plt ht	Ear ht	HC	Ker wt[3]	KPE[4]
	bu/a	bu/a	%	lb/bu	plt/a	DAP	in	in	1-3		
Croplan Genetics CG8410VT3P	191.9	181.1	15.8	62.4	30,500	77	68	31	1	43.9	396
Mycogen 2J794	191.2	-	18.8	57.4	29,270	80	73	37	1	35.5	466
Mycogen 2V707	191.1	-	15.7	58.9	28,370	75	74	35	2	38.9	461
REV® 17HR73™	191.1	-	16.0	58.3	31,820	79	74	31	2	35.6	443
Mycogen 2Y816	190.9	-	17.2	57.7	30,780	79	83	40	2	38.6	390
Delta Grow DG2788GTCBLL	190.1	-	16.5	59.9	31,000	77	73	33	1	40.1	400
Dekalb DKC64-69	190.0	191.8	17.2	60.0	27,390	75	69	32	3	44.7	400
REV®22BHR54™	189.6	-	16.5	58.4	28,540	78	75	37	2	36.6	437
Triumph TRX21366S	189.2	-	15.0	57.9	28,620	79	72	36	1	39.8	417
Delta Grow DG2888GTCBLL	189.0	171.0	16.5	60.2	29,030	76	76	36	1	37.7	433
Croplan Genetics CG6926RR	186.2	-	15.8	62.7	27,390	72	71	31	1	42.0	408
Triumph TRX11832X	185.8	-	17.8	59.2	28,370	80	86	45	3	32.5	523
Armor 1262PRO2	183.6	172.8	17.0	59.4	27,470	71	76	30	3	37.6	482
Dekalb DKC67-57	183.0	188.7	16.3	60.1	29,770	75	65	31	1	41.9	367
Dyna-Gro D53VC13	180.4	-	17.3	57.6	27,390	73	73	33	2	37.3	465
Delta Grow DG1660	175.4	-	15.5	56.8	31,490	75	70	34	1	32.1	414
Mycogen 2P886	174.4	-	19.6	55.9	27,060	79	85	42	2	28.2	546
Delta Grow DG3788GTCBLL	173.2	165.0	18.3	59.0	29,110	77	77	38	1	35.6	429
Average	**200.0**		**16.4**	**59.5**	**29,610**	**76**	**74**	**34**	**2**	**39.5**	**434**
CV, %	**7**		**2**	**2**	**8**	**2**	**4**	**7**	**30**	**4**	**8**
LSD (0.10)	**15.2**		**0.3**	**1.7**	**NS[5]**	**3**	**5**	**4**	**1**	**2.5**	**54**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2013.

[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group in both 2012 and 2013.

[3]Ker wt = kernel weight, grams/100 kernels

[4]KPE = number of kernels/ear

[5]NS = non-significant at the 0.10 probability level

Corn Hybrid Performance Trial on Sharkey Clay at the Northeast Research Station – St. Joseph

Location Summary

Rainfall was timely in April and early May and sporadic in June and July in this dryland trial (see below). Yields were relatively low, ranging from 117.7 to 160.1 bu/acre with a trial average of 140.3 bu/acre (Table 5). Fourteen hybrids fell within the highest-yielding group in 2013. Kernel weights ranged from 26.4 to 42.3 grams/100 kernels, with a trial average of 34.1 grams/100 kernels. Ear size ranged from 309 to 494 kernels/ear, with a trial average of 409 kernels/ear.

Soil type	Sharkey clay
Tillage	Stale seedbed, with no spring cultivation.
Row spacing	40 inches
Seeding rate	32,000 seed/acre
Previous crop	Cotton
Planting date	March 18
Fertilization	*Sidedress:* 230 lb N/acre (30-0-0-2)
Pesticides	*Preemerge*: 1.5 qt/acre of Atrazine, 1.5 pt/acre of Dual, and 1 oz/acre of Discipline; *Postemerge*: 1.5 oz/acre of Steadfast, 1 qt/acre of Atrazine, 0.75 oz/acre of Permit Plus, and 1% crop oil.
Harvest date	August 21-22

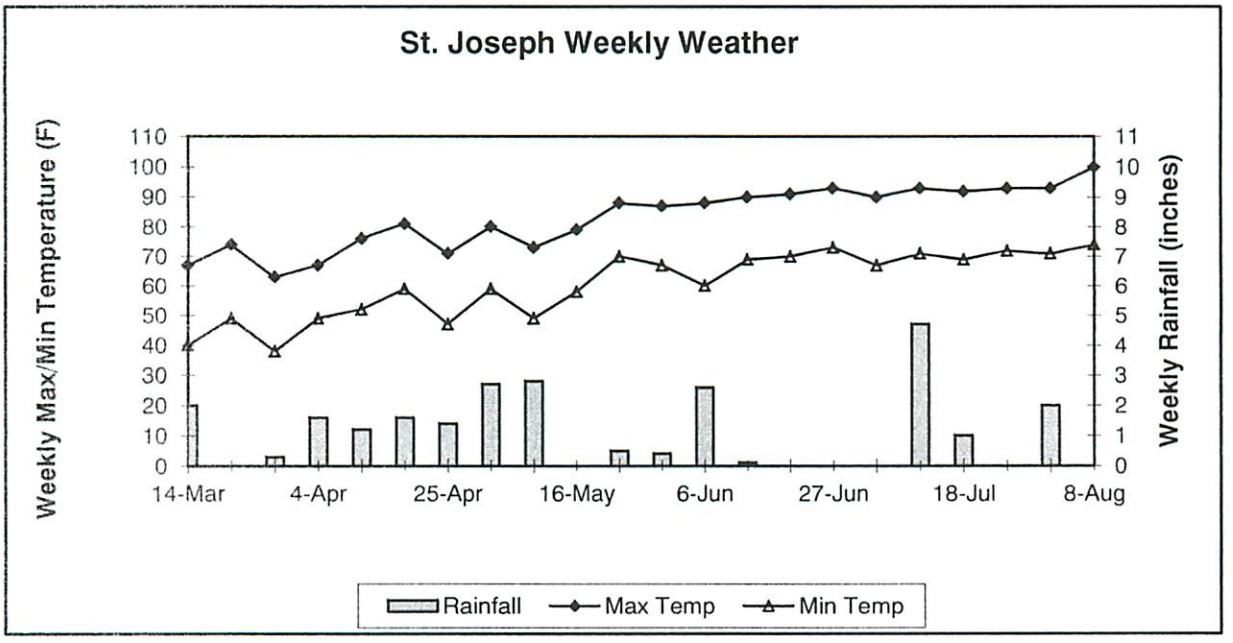


Table 7. Performance of corn hybrids on Sharkey clay at St. Joseph, 2013.

Brand/hybrid	2013 Yield[1]	2-yr avg	Gr mo	Test wt	Stand	Mid-silk	Plt ht	Ear ht	Ker wt[2]	KPE[3]
	bu/a	bu/a	%	lb/bu	plt/a	DAP	in	in		
REV®22BHR43™	**160.1**	161.2	14.7	59.8	26,900	79	77	33	29.6	494
REV®28R10™	**154.0**	162.8	15.8	60.6	24,030	82	75	35	35.2	458
Dekalb DKC66-87	**153.6**	-	14.9	58.9	25,580	78	68	31	33.9	434
REV®24BHR93™	**153.3**	-	14.6	60.7	26,240	79	77	36	34.8	414
Dekalb DKC66-40	**153.2**	-	15.3	58.8	25,420	77	72	34	35.9	431
Armor 1880PRO2	**151.6**	-	15.0	59.6	26,240	78	75	31	38.1	376
REV® 17HR73™	**151.6**	-	14.0	56.9	26,730	76	70	34	31.2	462
Dyna-Gro D54VP81	**151.4**	157.9	15.7	60.5	24,110	78	69	29	36.7	439
BH Genetics 8735VTTP	**150.2**	-	14.7	58.5	25,500	81	77	38	32.1	486
Mycogen 2C786	**149.8**	-	14.3	59.4	26,570	78	67	34	35.7	406
Golden Acres G7601	**149.0**	-	15.1	59.1	26,160	77	71	36	35.3	421
Mycogen 2Y811	**148.5**	-	16.2	58.0	26,240	79	76	38	31.8	444
Dekalb DKC69-29	**147.7**	156.5	15.2	60.4	26,980	76	65	30	35.8	398
REV® 22BHR21™	**147.5**	-	14.8	62.1	25,580	80	75	34	32.1	458
Golden Acres G6611	146.4	-	15.2	60.1	26,320	77	70	32	33.8	416
Delta Grow DG3660VIP	145.4	-	15.4	59.6	24,680	78	74	32	32.6	484
Dekalb DKC67-57	145.1	158.0	15.0	60.5	27,720	77	66	30	37.7	372
Dyna-Gro D57VP51	145.0	155.7	15.1	60.3	27,220	76	64	27	37.9	358
Dekalb DKC66-97	144.9	157.6	14.7	59.9	25,580	78	71	30	38.5	330
BH Genetics 8900GT3	144.8	-	15.6	59.7	24,440	79	71	30	33.8	406
Armor 1262PRO2	144.7	153.7	14.2	58.8	26,400	76	77	34	31.7	430
REV®27HR83™	144.2	158.6	14.3	60.0	25,170	80	80	41	33.3	417
Croplan Genetics CG6960VT3P	144.1	152.5	15.0	61.4	27,550	77	70	30	35.8	380
REV®22BHR54™	144.0	-	15.5	57.2	25,170	77	71	34	32.3	467
REV®26BHR50™	143.8	-	15.9	61.9	27,470	78	74	34	33.8	407
BH Genetics 8550VT2P	143.5	-	14.5	59.4	25,420	77	72	32	31.3	440
Mycogen 2Y816	143.1	-	16.2	57.6	26,080	78	75	39	32.4	442
Mycogen 2J794	142.7	-	15.8	57.1	27,720	77	72	37	29.3	436
Armor 1550PRO2	142.7	-	15.8	60.6	27,310	77	69	27	34.0	393
Triumph TRX21366S	141.8	-	14.4	57.6	25,170	79	62	30	34.3	417
BH Genetics 8732VTTP	141.1	-	15.0	58.3	27,390	78	74	35	33.7	397
Golden Acres 26V21	140.9	136.3	15.3	58.3	27,060	78	72	31	33.7	387
BH Genetics 8928VTTP	140.6	152.2	15.6	57.2	26,570	77	76	40	30.9	427
Croplan Genetics CG8621VT2P	140.4	-	14.3	56.6	25,910	79	71	35	30.7	449
Croplan Genetics CG6640VT3P	140.3	-	15.2	60.9	24,520	79	65	31	34.7	442
Mycogen 2V707	139.6	-	14.3	57.0	24,760	80	65	35	33.2	435
Dyna-Gro D52VC91	139.6	-	14.7	60.0	25,340	76	65	30	33.3	410
Armor 1133PRO2	139.6	-	14.1	57.9	24,760	77	65	27	32.1	430
BH Genetics 8830VTTP	139.4	-	15.0	59.0	23,860	80	70	31	37.0	388
Dekalb DKC64-69	138.9	158.7	15.3	60.6	26,980	78	71	34	39.8	314
Delta Grow DG2788GTCBLL	138.8	-	14.3	59.3	24,600	77	72	36	34.0	417
Delta Grow DG6160VIPGTCBLL	138.0	-	14.9	59.8	25,500	78	77	34	38.5	375
Dyna-Gro D56VC46	138.0	-	15.3	59.7	26,240	76	68	31	33.1	425
REV®28HR20™	137.6	161.5	15.3	60.2	23,780	82	77	36	32.7	394
Pioneer P1105YHR	137.0	-	15.0	59.6	24,930	77	76	37	30.3	453
Delta Grow DG3788GTCBLL	137.0	130.7	16.0	58.8	24,850	76	75	35	31.4	453
REV® 18BHR84™	136.7	-	14.4	58.2	25,670	76	60	28	34.0	393

Brand/hybrid	2013 Yield[1]	2-yr avg	Gr mo	Test wt	Stand	Mid-silk	Plt ht	Ear ht	Ker wt[2]	KPE[3]
	bu/a	bu/a	%	lb/bu	plt/a	DAP	in	in		
Dyna-Gro D53VC13	136.6	-	14.7	60.3	22,800	77	73	32	37.8	400
Mycogen 2V714	135.7	-	14.3	56.2	27,800	80	65	34	27.5	418
Dekalb DKC61-78	135.3	-	14.8	59.7	24,930	77	65	28	40.0	372
Dekalb DKC62-08	135.2	-	14.3	58.7	26,980	77	69	36	39.1	349
Croplan Genetics CG6926RR	134.8	-	15.1	60.9	25,260	76	66	30	37.3	368
Delta Grow DG2888GTCBLL	134.6	134.8	14.8	59.8	25,580	77	75	37	31.3	418
Croplan Genetics CG8410VT3P	132.6	148.7	15.0	60.6	24,680	77	67	30	42.3	310
Pioneer P1685YHR	132.5	-	14.9	59.3	26,890	82	79	37	34.1	389
REV®25BHR44™	131.2	-	14.6	60.5	26,240	80	78	35	31.2	383
Dekalb DKC61-88	130.3	145.0	14.8	58.7	27,220	76	66	33	35.6	343
Dyna-Gro D55VP77	129.5	147.6	15.2	60.1	26,320	77	64	30	39.7	309
Triumph TR1725H	128.5	-	16.1	57.3	26,160	79	75	37	33.5	389
Delta Grow DG1660	127.6	-	14.2	56.2	25,910	77	67	31	30.3	399
BH Genetics 8700SS	126.1	-	15.2	60.1	25,830	78	70	29	34.6	399
Triumph TRX11832X	124.1	-	17.0	60.4	25,090	81	79	36	28.0	477
Mycogen 2A787	122.7	-	15.4	59.6	26,900	78	67	29	34.6	336
Armor 1555SS	119.6	-	15.4	58.7	24,110	79	68	30	39.2	335
Mycogen 2P886	117.7	-	17.8	57.9	24,850	82	80	35	26.4	455
Average	**140.3**		**15.1**	**59.2**	**25,740**	**78**	**71**	**33**	**34.1**	**409**
CV, %	**8**		**2**	**2**	**6**	**2**	**4**	**5**	**5**	**10**
LSD (0.10)	**13.4**		**0.3**	**1.7**	**NS[4]**	**2**	**5**	**3**	**2.8**	**70**

[1]Yields in bold denote hybrids that are in the highest-yielding group in 2013. No hybrid was in the highest-yielding group for both years, 2012 and 2013.

[2]Ker wt = kernel weight, grams/100 kernels

[3]KPE = number of kernels/ear

[4]NS = non-significant at the 0.10 probability level

Corn Hybrid Performance Trial at the Macon Ridge Research Station – Winnsboro

Location Summary

May, June, and July rainfall was low in this trial (see below). About seven furrow-irrigations were applied in June and July. Yields ranged from 156.6 to 206.2 bu/acre, with a trial average of 183.3 bu/acre (Table 6). Sixteen hybrids fell within the highest-yielding group in 2013 and two hybrids, REV®24BHR93™ and Dekalb DKC67-57, were in the highest-yielding group both years, 2012 and 2013. Kernel weights ranged from 30.8 to 44.6 grams/100 kernels, with a trial average of 36.8 grams/100 kernels. Ear size ranged from 356 to 552 kernels/ear, with a trial average of 440 kernels/ear.

Soil type	Gigger silt loam
Tillage	Conventional tillage prior to planting, with no spring cultivation.
Row spacing	40 inches
Seeding rate	32,000 seed/acre
Previous crop	Cotton
Planting date	March 13
Fertilization	*Sidedress:* 200 lb N/acre (30-0-0-2)
Pesticides	*Burndown*: 1 qt/acre of Round-up, 1.5 pt/acre of 2,4-D (LV4); *Preemerge*: 3 qt/acre of Lexar; *Postemerge*: 1 qt/acre of Atrazine
Harvest date	August 28

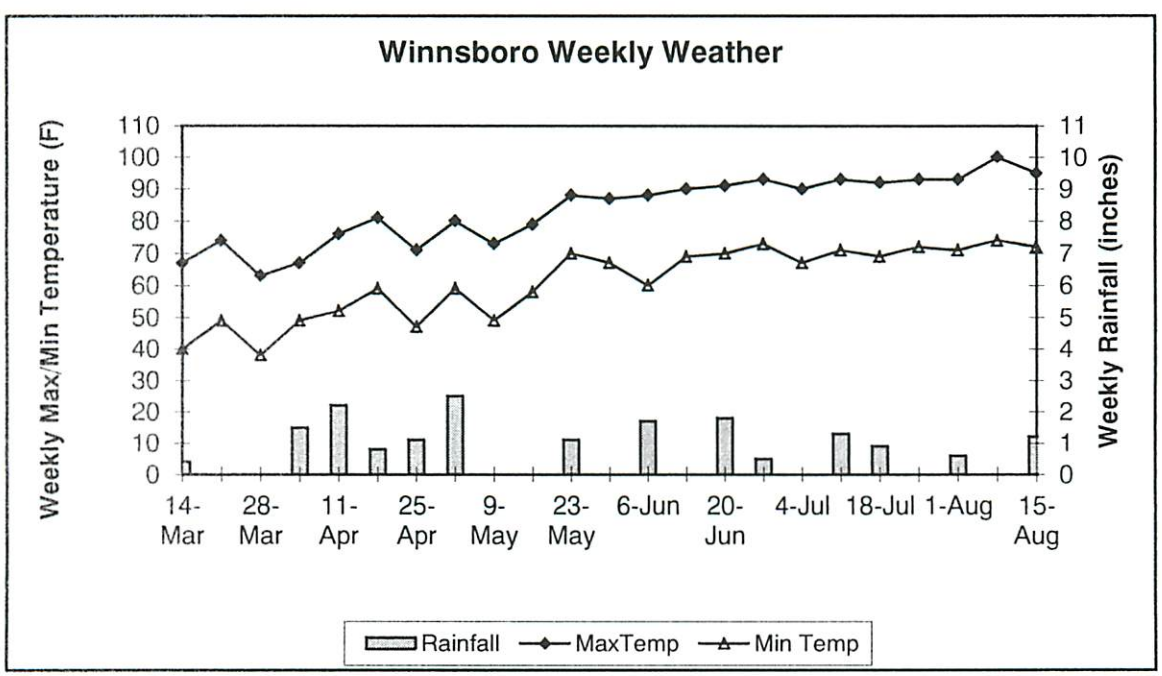


Table 8. Performance of corn hybrids at Winnsboro, 2013.

Brand/hybrid	2013 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Stand	Plt ht	Ear ht	HC	Ker wt[3]	KPE[4]
	bu/a	bu/a	%	lb/bu	plt/a	in	in	1-3		
Dekalb DKC69-29	**206.2**	206.7	13.5	61.8	29,800	91	44	2	41.2	424
REV®25BHR44™	**204.8**	-	12.8	62.5	30,790	101	50	2	37.7	447
Dekalb DKC66-87	**202.3**	-	13.2	59.8	30,590	87	41	3	37.4	464
REV®28R10™	**201.1**	206.8	13.9	62.8	30,890	104	53	2	39.2	452
Croplan Genetics CG6640VT3P	**200.7**	-	13.4	60.8	28,120	88	44	3	36.7	505
REV®24BHR93™ *	**199.3**	208.3	12.8	60.9	32,370	94	48	2	37.5	452
Dekalb DKC62-08	**198.1**	-	13.0	61.2	31,280	84	49	2	39.2	428
Dekalb DKC66-40	**196.4**	-	13.3	61.1	27,720	94	47	3	37.8	455
Golden Acres G6611	**196.3**	-	13.4	60	32,180	83	43	2	37.9	424
REV®22BHR43™	**196.1**	195.6	12.5	61.2	31,190	91	41	3	32.7	484
BH Genetics 8735VTTP	**195.6**	-	13.2	61.0	30,690	97	47	3	37.3	433
BH Genetics 8830VTTP	**194.4**	-	13.4	62.2	29,700	89	44	3	43.5	393
Dekalb DKC67-57 *	**192.8**	203.8	13.4	62.1	27,920	79	38	2	38.3	463
Golden Acres G7601	**192.2**	-	14.1	60	30,200	93	49	2	36.4	438
REV®26BHR50™	**192.1**	-	12.9	63.9	30,690	93	38	2	37.5	394
Croplan Genetics CG8621VT2P	**191.8**	-	12.7	59.6	27,820	92	44	3	35.3	493
Delta Grow DG3660VIP	191.2	-	13.5	61.3	29,800	94	44	2	35.8	449
BH Genetics 8900GT3	191.1	-	14.0	62.1	30,200	93	39	2	36.1	458
Armor 1133PRO2	190.9	-	12.3	59.5	29,500	96	44	2	35.6	478
REV®27HR83™	190.7	204.2	12.8	61.8	30,100	97	47	3	36.4	428
Mycogen 2J794	190.4	-	14.7	58.2	29,700	95	48	2	33.4	473
BH Genetics 8700SS	188.8	-	13.6	61.8	29,400	88	39	3	39.9	444
Mycogen 2V714	188.8	-	13.2	58.9	30,390	91	47	3	34.5	468
Mycogen 2C786	188.6	-	13.0	59.4	32,180	92	46	2	37.5	397
Dekalb DKC66-97	187.2	196.9	12.8	62.0	32,080	83	37	2	40.1	372
BH Genetics 8732VTTP	186.8	-	13.7	60.7	32,270	95	51	2	37.0	403
REV®28HR20™	186.8	204.5	13.2	62.3	30,790	102	52	2	38.4	423
Dekalb DKC64-69	186.6	197.8	13.1	60.9	27,420	89	43	3	37.6	446
Dyna-Gro D56VC46	186.0	-	13.8	60.9	27,920	86	45	2	36.3	497
Triumph TR1725H	185.8	-	15.0	59.3	30,590	102	55	1	36.4	479
Dyna-Gro D53VC13	185.7	-	13.0	61.3	25,540	96	47	3	36.6	552
Delta Grow DG6160VIPGTCBLL	183.7	-	13.3	61.4	28,810	100	42	1	44.6	376
Mycogen 2V707	183.7	-	12.9	59.9	29,210	87	47	2	36.6	454
Croplan Genetics CG8410VT3P	183.3	202.9	12.6	61.2	29,110	76	41	1	40.9	376
Armor 1880PRO2	183.0	-	12.8	62.1	30,200	97	46	2	44.4	356
REV® 18BHR84™	182.0	-	12.6	61.0	31,980	96	39	2	38.2	420
Croplan Genetics CG6960VT3P	181.6	194.7	13.2	63.1	30,200	86	37	2	39.8	373
Dyna-Gro D52VC91	181.5	-	12.9	61.9	29,300	86	41	2	37.3	433
BH Genetics 8550VT2P	181.4	-	12.3	60.7	28,810	93	48	3	36.4	431
Delta Grow DG3788GTCBLL	181.3	187.2	13.5	62.1	26,930	91	49	2	34.7	486
Dyna-Gro D55VP77	179.8	200.2	13.1	60.4	28,120	83	38	2	34.7	448
REV® 17HR73™	179.4	-	12.7	59.3	30,200	91	42	3	34.3	464
Pioneer P1105YHR	179.2	-	12.6	61.1	33,070	92	50	3	33.1	442
Armor 1555SS	179.1	-	13.3	61.6	29,500	79	36	2	36.9	454
Mycogen 2Y811	177.4	-	14.0	59.0	30,890	87	45	1	33.3	423
Triumph TRX21366S	176.9	-	12.7	60.3	30,990	81	43	2	37.4	389
Golden Acres 26V21	176.7	179.9	14.3	59.6	30,100	88	43	1	35.8	427

Brand/hybrid	2013 Yield[1]	2-yr avg[2]	Gr mo	Test wt	Stand	Plt ht	Ear ht	HC	Ker wt[3]	KPE[4]
	bu/a	bu/a	%	lb/bu	plt/a	in	in	1-3		
REV® 22BHR21™	174.5	-	12.7	61.1	30,990	93	43	2	30.8	455
Dyna-Gro D54VP81	173.8	189.6	13.6	62.5	30,390	88	38	3	35.8	415
REV®22BHR54™	173.7	-	13.2	59.5	31,880	94	49	3	37.1	416
Dekalb DKC61-88	173.1	181.6	12.8	59.6	31,680	85	43	3	39.1	381
Delta Grow DG2788GTCBLL	172.3	-	13.1	58.5	32,570	93	45	2	35.9	377
Armor 1550PRO2	172.1	-	13.5	62.2	29,400	78	34	3	38.0	396
Mycogen 2P886	172.0	-	16.2	60.7	31,480	102	53	3	31.0	505
Dekalb DKC61-78	171.9	-	12.7	60.6	29,110	85	39	2	38.1	391
Mycogen 2Y816	171.4	-	15.2	59.3	29,300	92	42	1	33.6	433
Triumph TRX11832X	171.4	-	14.5	61.0	28,310	102	50	3	34.8	509
Croplan Genetics CG6926RR	169.4	-	12.5	62.9	26,930	82	40	3	38.8	407
Delta Grow DG1660	169.4	-	12.9	57.5	29,700	93	45	2	31.2	475
Dyna-Gro D57VP51	169.2	195.6	13.2	60.9	26,240	77	38	3	38.1	477
BH Genetics 8928VTTP	169.1	196.4	13.7	58.4	27,030	93	47	1	33.4	479
Armor 1262PRO2	168.9	182.6	13.1	60.8	28,910	91	40	3	37.2	440
Mycogen 2A787	163.7	-	14.1	60.1	27,520	81	36	3	36.4	419
Delta Grow DG2888GTCBLL	162.2	185.1	13.7	60.7	28,310	96	45	2	34.3	440
Pioneer P1685YHR	156.6	-	12.5	61.1	30,000	97	46	2	32.5	448
Average	**183.3**		**13.3**	**60.8**	**29,750**	**90**	**44**	**2**	**36.8**	**440**
CV, %	**8**		**2**	**2**	**6**	**5**	**8**	**24**	**6**	**8**
LSD (0.10)	**14.5**		**0.2**	**1.6**	**3,060**	**7.8**	**6**	**1**	**3.5**	**55**

[1]Yields in bold denote hybrids that were in the highest-yielding group in 2013.

[2]Hybrids in bold with an asterisk (*) were in the highest-yielding group in both 2012 and 2013.

[3]Ker wt = kernel weight, grams/100 kernels

[4]KPE = number of kernels/ear

Table 9. Seed traits and maturity for corn hybrids entered in the 2013 LAES corn official variety trials.

Brand/Hybrid	Trans-genes[1] Insect resistance/ herbicide tolerance	Seed treatment	Days to maturity
Armor 1133PRO2	GENVT2P	Acceleron + Votivo	111
Armor 1262PRO2	GENVT2P	Acceleron/Votivo	112
Armor 1550PRO2	GENVT2P	Acceleron/Votivo	115
Armor 1555SS	GENSS	Acceleron/Votivo	115
Armor 1880PRO2	VT2P	Acceleron/Votivo	118
BH Genetics 8550VT2P	GENVT2P	Acceleron	114
BH Genetics 8700SS	GENSS	Acceleron	115
BH Genetics 8732VTTP	GENVT3P	Acceleron	116
BH Genetics 8735VTTP	GENVT3P	Acceleron	117
BH Genetics 8830VTTP	GENVT3P	Acceleron	118
BH Genetics 8900GT3	3000GT	CruiserMaxx	118
BH Genetics 8928VTTP	GENVT3P	Acceleron	119
Croplan 6640VT3P	GENVT3P	Cruiser 500	113
Croplan 6926RR	RR	Cruiser 500	114
Croplan 6960VT3P	GENVT3P	Cruiser 500	114
Croplan 8410VT3P	GENVT3P	Cruiser 500	117
Croplan 8621VT2P	GENVT2P	Cruiser 500	117
Dekalb DKC61-78	GENVT3P	Poncho 500	111
Dekalb DKC61-88	GENVT3P	Poncho 500	111
Dekalb DKC62-08	GENSS	Poncho 500	112
Dekalb DKC64-69	GENVT3P	Poncho 500	114
Dekalb DKC66-40	GENSS	Poncho 500	116
Dekalb DKC66-87	GENVT2P	Poncho 500	116
Dekalb DKC66-97	GENVT2P	Poncho 500	116
Dekalb DKC67-57	GENVT3P	Poncho 500	117
Dekalb DKC69-29	GENVT3P	Poncho 500	119
Delta Grow DG1660VIPGTCBLL3110	VIP/GT/CB/LL/3110	Poncho 1250/ApronMaxx	113
Delta Grow DG2788GTCBLL	GT/CB/LL	Poncho 1250/ApronMaxx	116
Delta Grow DG2888GTCBLL	GT/CB/LL	Poncho 1250/ApronMaxx	115
Delta Grow DG3660VIPGTCBLL3110	VIP/GT/CB/LL/3110	Poncho 1250/ApronMaxx	115
Delta Grow DG3788GTCBLL	GT/CB/LL	Poncho 1250/ApronMaxx	114
Delta Grow DG6160VIPGTCBLL3110	VIP/GT/CB/LL/3110	Poncho 1250/ApronMaxx	117
Dyna-Gro D52VC91	GENVT2P	Poncho 500/Votivo	112
Dyna-Gro D53VC13	GENVT2P	Poncho 500/Votivo	113
Dyna-Gro D54VP81	GENVT3P	Poncho 500/Votivo	114
Dyna-Gro D55VP77	GENVT3P	Poncho 500/Votivo	115
Dyna-Gro D56VC46	GENVT2P	Poncho 500/Votivo	115
Dyna-Gro D57VP51	GENVT3P	Poncho 500/Votivo	117
Golden Acres 26V21	GENVT3P	Acceleron 1250	115
Golden Acres G6611	GENVT3P	Acceleron 1250	115
Golden Acres G7601	GENVT3P	Acceleron 1250	117
Mycogen 2A787	HXX/LL/RR2	CruiserMaxx	113
Mycogen 2C786	HXX/LL/RR2	CruiserMaxx	115
Mycogen 2J794	HX/LL/RR2	CruiserMaxx	115
Mycogen 2P886	HX/LL/RR2	CruiserMaxx	120
Mycogen 2V707	SSX/LL/RR2	CruiserMaxx	113

Brand/Hybrid	Trans-genes[1] Insect resistance/ herbicide tolerance	Seed treatment	Days to maturity
Mycogen 2V714	SSX/LL/RR2	CruiserMaxx	114
Mycogen 2Y811	RR2	CruiserMaxx	115
Mycogen 2Y816	HX/LL/RR2	CruiserMaxx	116
Pioneer P1105YHR	YG/HX	Maxim Quatro/Poncho 1250/Votivo	111
Pioneer P1685YHR	YG/HX	Maxim Quatro/Poncho 1250/Votivo	116
REV® 17HR73™	HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	107
REV® 18BHR84™	YGCB/HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	108
REV® 22BHR21™	YGCB/HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	112
REV®22BHR43™	YGCB/HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	112
REV®22BHR54™	YGCB/HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	112
REV®24BHR93™	YGCB/HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	114
REV®25BHR44™	YGCB/HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	115
REV®26BHR50™	YGCB/HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	116
REV®27HR83™	HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	117
REV®28HR20™	HX1/LL/RR	ApronMaxx/Poncho 1250/Votivo	118
REV®28R10™	RR	ApronMaxx/Poncho 1250/Votivo	118
Triumph TR1725H	HX1/RR	Cruiser 250	117
Triumph TRX11832X	SS/RR	Cruiser 250	117
Triumph TRX21366S	SS/RR	Cruiser 250	114

[1]**YG, YGCB** – The YieldGard corn borer gene offers a high level of resistance to corn borers (southwestern, European, and sugarcane borers). The gene also offers a moderate level of resistance to corn earworm and above average resistance to fall armyworms.
RR – Contains the Roundup Ready (glyphosate) gene.
RR2 – Contains the Roundup Ready Corn 2 gene for over-the-top applications of glyphosate.
LL – Contains the Liberty Link gene for resistance to Liberty (gluphosinate) herbicide.
VT2P – Contains RR2 gene and YieldGard corn borer gene.
GENVT2P – Contains RR2 gene and Genuity VT PRO genes, which provide resistance to corn borers, fall armyworm, and corn earworm.
VT3P – Contains RR2 gene and YieldGard corn borer and corn rootworm gene.
GENVT3P – Contain RR2 gene and Genuity VT PRO gene, which provides resistance to corn borers, fall armyworm, corn earworm, and corn rootworm.
HX, HX1 – Contains the Herculex Insect Protection gene, which provides protection against corn borers and fall armyworms; and suppresses corn earworm.
HXX - Contains the Herculex Insect Protection gene, which provides protection against corn borers and fall armyworms; and suppresses corn earworm and protection against corn rootworm).
GENSS – Genuity SmartStax, contains Genuity VTPRO3, HXX, LL, and RR2.
SS – Dow AgriSciences SmartStax. Provides protection similar to GENSS.
SSX – Dow AgriScience SmartStax. Provides similar protection as SS and also protects against corn earworm.
Agrisure CB/LL – This gene offers a high level of resistance to corn borers (southwestern, European, and sugarcane borers).The gene also offers a moderate level of resistance to corn earworm and above average resistance to fall armyworms. Also, contains the LL gene.
GT –Agrisure's glyphosate tolerance gene.
VIP – Agrisure's Vipteria contains a gene for resistance to corn earworm, Fall armyworm, black cutworm, western bean cutworm, dingy cutworm, and stalk borers.
3000GT – Contains Agrisure's GT and CB/LL genes.
3110 – Contains Agrisure's VIP, CB/LL, and GT traits.

NOTE: Corn rootworm resistance provided in all of the above traits do not provide resistance to the southern corn rootworm, which is the pest present in Louisiana.

Table 10. List of participating seed companies and hybrids tested in the LAES 2013corn official variety trials.

Company	Brand/Hybrid
Armor Seed Hwy 49 P.O. Box 9 Waldenburg, AR 72475	Armor 1133PRO2, Armor 1262PRO2, Armor 1550PRO2, Armor 1555SS, Armor 1880PRO2
BH Genetics 5933 FM 1157 Ganado, TX 77962	BH Genetics 8550VT2P, BH Genetics 8700SS, BH Genetics 8732VTTP, BH Genetics 8735VTTP, BH Genetics 8830VTTP, BH Genetics 8900GT3, BH Genetics 8928VTTP
Winfield/Croplan Genetics 379 West Cypress St. P.O. Box 42 Cary, MS 39054	Croplan Genetics CG6640VT3P, Croplan Genetics CG6926RR, Croplan Genetics CG6960VT3P, Croplan Genetics CG8410VT3P, Croplan Genetics CG8621VT2P
Monsanto/Dekalb 2104 Jasmine Drive Opelousas, LA 70570	Dekalb DKC61-78, Dekalb DKC61-88, Dekalb DKC62-08, Dekalb DKC64-69, Dekalb DKC66-40, Dekalb DKC66-87, Dekalb DKC66-97, Dekalb DKC67-57, Dekalb DKC69-29
Delta Grow Seed 220 NW 2nd P.O. Box 219 England, AR 72046	Delta Grow DG1660, Delta Grow DG2788GTCBLL, Delta Grow DG2888GTCBLL, Delta Grow DG3660VIP, Delta Grow DG3788GTCBLL, Delta Grow DG6160VIPGTCBLL
Crop Production Services/ Dyna-Gro Seed 11 Gin Rd. Rayville, LA 71269	Dyna-Gro D52VC91, Dyna-Gro D53VC13, Dyna-Gro D54VP81, Dyna-Gro D55VP77, Dyna-Gro D56VC46, Dyna-Gro D57VP51
Golden Acres Genetics, Ltd. P.O. Box 20787 Waco, TX 76702	Golden Acres 26V21, Golden Acres G6611, Golden Acres G7601
Mycogen 9330 Zimsville Rd Indianapolis, IN 46268	Mycogen 2A787, Mycogen 2C786, Mycogen 2J794, Mycogen 2P886, Mycogen 2V707, Mycogen 2V714, Mycogen 2Y811, Mycogen 2Y816
Dupont Pioneer 700 Boulevard South SW Suite 302 Huntsville, AL 35802	Pioneer P1105YHR Pioneer P1685YHR

Terral Seed, Inc. 111 Ellington Drive Rayville, LA 71269	REV®17HR73™, REV®18BHR84™, REV®22BHR21™, REV®22BHR43™, REV®22BHR54™, REV®24HR93™, REV®25BHR44™, REV®26BHR50™, REV®27HR83™, REV®28HR20™, REV®28R10™
Triumph Seed Company, Inc. P.O. Box 1050 Ralls, TX 79357	Triumph TR1725H, Triumph TRX11832X, Triumph TRX21366S