

*Evaluations of
Corn Hybrids
in Alabama,
2012*

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EVALUATION OF CORN HYBRIDS IN ALABAMA

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INTRODUCTION

Selected corn hybrids are evaluated annually by the Alabama Agricultural Experiment Station as a service to producers and industry. These tests are conducted throughout the state in an attempt to determine effects of different climatic factors and soil types on yield. There are several types of tests in the program. The Regular Corn Hybrid Test is conducted at two locations in the northern region, one location in the central region and three locations in the southern region. In addition, a regular corn hybrid test is irrigated at Belle Mina and Headland. A no-till test is conducted at Shorter, AL. Locations and cultural practices for all tests are given in Table 1.

EXPERIMENTAL PROCEDURES

All tests are laid out in a randomized complete block design with four replicate plots for each variety at each location. Rows are 30 to 36 inches apart, depending on location. Two-row plots are used, and both rows are harvested. Plots are 20 to 30 feet long, depending on location. The target plant population for the tests is 25,000 plants per acre with a seeding rate of 28,000 seeds per acre. The irrigated tests at Belle Mina, Tallassee and Headland are seeded to achieve 30,000 plants per acre, but are thinned to 25,000 plants per acre.

Grain yields are adjusted to 15.5 percent moisture and converted to bushels (56 lbs) per acre. Stalks broken or leaning more than 45 degrees are considered lodged. The mid-silk data show the number of days from planting until approximately half the plants in the plots are showing silks. The Regular Corn Hybrid tests also are examined for disease incidence at selected locations each year. When virus or other disease symptoms indicate crop damage, disease ratings are compiled and published in this report.

STATISTICAL ANALYSIS

All test were conducted in randomized complete block designs and analyzed accordingly. It is important to keep in mind that genotype x environment interaction is common in multi-year and multi-location mean. This interaction usually is an indication that the relative rankings of varieties change from one environment to the next. Thus, one cannot draw widespread conclusions if the interaction is significant.

INTERPRETATION OF DATA

In replicated experiments such as those reported here, yields from each of the four replicate plots of a particular variety at a given location will be slightly different, because of inherent differences in productivity among those plots. These differences in yield among replicate plots are known as random variation. Given this situation, it is clearly necessary to have a method to determine whether differences among hybrids are "true" or "real" differences, or whether they are due to random variation. To do this a statistical analysis was conducted to determine a "least significant difference" (LSD) by comparing the differences among varieties with random variation. If the difference in yield between two hybrids is larger than the LSD, then the difference is probably real, but if the difference is less than the LSD, it may not be real. If the difference between two hybrids is less than, but close to the LSD, then there is still a chance that it is real, but if it is considerably smaller than the LSD, then it is probably not real and mainly due to random variation.

EVALUATIONS OF CORN HYBRIDS IN ALABAMA 2012

With this in mind, it is very important to study differences in hybrid yields in relation to the LSD which is provided at the bottom of the table for each of the current year yield columns at each location. Clearly, LSD's vary from one location to another. This is because random variation varies among locations and from year to year. The coefficient of variation (CV) is a reflection of random variation, and is reported below the LSD values in the tables. If the CV is low, a precise or reliable test is indicated. Ideally, the CV should be below 10 percent, but CV's of 10 to 20 percent are acceptable. Values for the CV above 20 percent indicate a rather unreliable test, which may have been caused by factors such as disease variation among replicates, etc.

In comparing yield potential of two hybrids it is important to consider a wide range of results. Do not focus on results from only one year at one location. Two- and three-year average yields are provided by location and region. These are more useful guides than yields from only one year. However, other factors may deserve consideration. For example, differences between the highest and the lowest yield of a hybrid across several locations may be an indication of the stability of its yield under variable conditions, or what is the "risk level" of the variety.

Differences in yield of hybrids among locations will be a result of the combined effects of differences among locations in soil, weather (mainly rainfall), planting date, weed control, and other factors. To assist in estimating which factors most likely had the greatest effect on yield differences among locations, planting dates and cultural practices (Table 1), rainfall records (Table 10) and soil types (Table 11) are provided. This information also serves as a guide for assessing conditions to which results may be extrapolated.

TABLE 1. LOCATIONS AND CULTURAL PRACTICES FOR THE 2012 CORN HYBRID TRIALS

Location	Planting date	Nitrogen Rate [†] lbs/ac	Plant pop. seeds/ac	Date harvested	Herbicides used
NORTHERN ALABAMA					
Tennessee Valley Res. and Ext. Ctr. (Belle Mina)					
Regular test (non-irrigated)	April 2	175	25,000	Not harvested	Atrazine/Dual
Regular test (irrigated)	April 3	225	30,000	September 27	Atrazine/Dual
Sand Mountain Res. and Ext. Ctr. (Crossville)					
Regular test	April 4	100	25,000	September 7	Atrazine/Accent
CENTRAL ALABAMA					
E.V. Smith Research Center (Shorter)					
No-Till Early corn test	April 3	140	30,000	August 16	Atrazine/Dual
Prattville Experiment Field (Prattville)					
Regular test (non-irrigated)	April 25	120	25,000	September 6	Atrazine/Dual
SOUTHERN ALABAMA					
Brewton Experiment Field (Brewton)					
Regular test (non-irrigated)	March 28	130	25,000	August 24	Atrazine/Dual
Wiregrass Res. and Ext. Ctr. (Headland)					
Regular test (non-irrigated)	April 2	170	25,000	August 22	Atrazine/Dual
Regular test (irrigated)	April 2	220	30,000	August 22	Atrazine/Dual
Gulf Coast Res. and Ext. Ctr. (Fairhope)					
Regular test	March 28	150	25,000	August 8	Atrazine

[†] Lime, phosphorus, potassium, zinc, and sulfur were applied according to soil test recommendations.

[‡] Dryland trial not harvested due to lack of rainfall.

EVALUATIONS OF CORN HYBRIDS IN ALABAMA 2012**TABLE 2. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR CORN HYBRIDS IN NORTHERN ALABAMA, 2010-2012[†]**

Brand name - hybrid	Grain yield [†]		% stalks lodging [†]	
	3-yr	2-yr	3-yr	2-yr
	----- bu/acre -----		----- % -----	
Croplan Genetics 6926 VT3P	126	145		2.5
Terral-REV 28HR20	114	132		1.2
DynaGro 56VP79	112	118		5.7
Croplan Genetics 6125 VT3	112	123		6.2
Dekalb DKC 64-69 (GENVT3P)	109	118		5.4
Terral-REV 28HR29	109	129		2.0
Croplan Genetics 7131 VT3	106	118		6.1
Golden Acres 27V01	105	121		5.4
Terral-REV 28R10	92	96		9.5
DynaGro D 56VP10		144		4.0
Terral-REV 26HR50		137		3.7
Croplan Genetics 8410 VT3PRO		133		4.8
Syngenta NK N72F-3000GT		132		9.0
Terral REV 27HR52		129		5.2
Dekalb DKC 63-87 (GENVT2P)		127		5.1
Terral-REV 28HR30		127		2.3
DynaGro D 58VP30		126		4.5
Dekalb DKC 67-57 (GENVT3P)		125		3.1
Syngenta NK N68B-3111		122		5.3
Syngenta NK N77P-3111		121		5.2
DynaGro D 51VP40		116		7.6
Test Average	109	126		
LSD0.10	8	12		
CV(%)	18	18		

[†] Multi-year averages do not include data from Belle Mina 2012 because of crop failure.

TABLE 3. 2012 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN NORTHERN ALABAMA

Brand name - hybrid	Belle Mina	Cross- ville	2012 regional averages‡			
			Yield	Lodg- ing	Test- weight	Harvest moisture
	----- bu/acre	----- bu/acre	-- % --	lb/bu	-- % --	
Croplan Genetics 6926 VT3P		137	137	0	61	18
Dekalb DKC 63-87 (GENVT2P)		134	134	0	57	16
DynaGro D 56VP10		128	128	0	62	18
Terral REV 27HR52		128	128	0	59	18
Terral-REV 26HR50		126	126	0	61	19
Croplan Genetics 8410 VT3PRO		125	125	0	60	18
Dekalb DKC 66-97		125	125	0	59	18
Terral REV 22BHR43		124	124	0	60	17
Syngenta NK N72F-3000GT		123	123	0	58	18
Croplan Genetics 8505 VT3P		122	122	0	60	19
Croplan Genetics 8621 VT3PRO		122	122	0	58	18
Croplan Genetics 6125 VT3		120	120	1	56	15
DynaGro D 51VP40		119	119	0	59	17
Golden Acres 28V81		118	118	1	59	19
Croplan Genetics 6640 VT3PRO		118	118	0	61	18
Dekalb DKC 61-88		118	118	0	59	17
Agusta A0720GTCBLLC		116	116	0	59	18
Croplan Genetics 6960 VT3PRO		116	116	0	61	19
Terral REV 29HR13		115	115	0	60	18
Syngenta NK N78S-3111		115	115	0	58	20
DynaGro D 54VP81		115	115	0	60	19
DynaGro D 55VP77		115	115	0	59	18
DynaGro 56VP79		115	115	0	60	18
Terral REV 26HR23		114	114	0	61	18
Dekalb DKC 67-57 (GENVT3P)		114	114	0	61	17
Terral REV 27HR83		113	113	0	61	19
DynaGro D 52VC91		112	112	1	60	18
DynaGro D 57VP51		108	108	0	59	18
Terral REV 24BHR93		110	108	0	60	19
Terral-REV 28HR29		107	107	0	61	20
Golden Acres 27V01		107	107	0	58	18
Dekalb DKC 64-69 (GENVT3P)		106	106	0	60	19
Terral REV 21HR33		105	105	0	60	17
Terral REV 25BHR63		105	105	1	59	19

EVALUATIONS OF CORN HYBRIDS IN ALABAMA 2012

TABLE 3. CONTINUED

Brand name - hybrid	Belle Mina	Cross- ville	2012 regional averages‡			
			Yield	Lodg- ing	Test- weight	Harvest moisture
	----- bu/acre	----- bu/acre	-- % --	lb/bu	-- % --	
DynaGro D 58VP30		105	105	1	59	18
Croplan Genetics 7131 VT3		105	105	1	59	19
Syngenta NK N68B-3111		104	104	0	56	18
Syngenta NK N74R-3000GT		104	104	0	58	19
Agusta A6867GTCBLLC		103	103	0	59	18
Dekalb DKC 65-67		103	103	0	59	19
Terral-REV 28R10		102	102	4	60	19
Terral REV 23RE73		101	101	1	62	18
Agusta A0606GTCBLLC		101	101	0	58	18
Croplan Genetics 6160 VT3PRO		97	97	0	59	19
Dekalb DKC 62-97 (GENVT3P)		93	93	0	57	17
Syngenta NK N77P-3111		93	93	0	57	18
Terral-REV 28HR30		88	88	0	59	19
Terral-REV 28HR20		87	87	0	60	19
Test Average		112	112			
LSD0.10		23	13			
CV(%)		23	22			

TABLE 4. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, BELLE MINA, ALABAMA, 2010-2012†

Brand name - hybrid	Grain yield			Lodging			Test-weight lb/bu	Harvest moisture -- % --
	3-yr	2-yr	2012	3-yr	2-yr	2012		
	----- bu/acre -----			----- % -----				
Terral-REV 28HR29	216	212	223	0.9	1.4	0.0	59	23
Croplan Genetics 6926 VT3P	213	206	219	1.7	2.5	0.3	60	18
Terral-REV 28R10	209	206	205	2.8	3.8	0.3	59	21
Terral-REV 28HR20	208	197	211	1.2	1.6	0.0	59	21
Dekalb DKC 64-69 (GENVT3P)	207	192	200	3.8	5.5	0.0	59	19
Croplan Genetics 7131 VT3	201	196	225	3.4	4.9	0.0	57	20
Golden Acres 27V01	200	189	203	2.9	3.9	1.0	56	20
DynaGro 56VP79	191	186	199	1.0	1.5	0.0	59	18
Croplan Genetics 6125 VT3	188	184	186	1.8	2.6	0.3	55	15
DynaGro D 58VP30		210	233		3.4	0.0	58	19
Croplan Genetics 8410 VT3PRO		207	207		1.8	0.0	59	19
Syngenta NK N68B-3111		203	210		2.9	0.0	54	18
Syngenta NK N72F-3000GT		200	210		8.8	0.5	58	18
Dekalb DKC 63-87 (GENVT2P)		200	203		1.6	0.0	57	18
Terral-REV 28HR30		197	215		9.9	1.0	58	22
Dekalb DKC 67-57 (GENVT3P)		196	203		1.1	0.0	59	19
Terral-REV 26HR50		194	195		3.3	0.0	59	22
DynaGro D 56VP10		193	204		2.3	0.0	62	19
Terral REV 27HR52		190	191		1.8	0.0	57	20
DynaGro D 51VP40		189	206		1.9	0.8	57	18
Syngenta NK N77P-3111		186	190		5.4	0.3	56	20
Croplan Genetics 8621 VT3PRO			229			0.0	56	18
Golden Acres 28V81			227			0.0	58	19
Terral REV 24BHR93			220			0.0	59	19
Croplan Genetics 6640 VT3PRO			217			0.0	58	18
Dekalb DKC 66-97			215			0.0	59	18
Terral REV 29HR13			214			0.0	58	21
DynaGro D 55VP77			213			0.0	58	19
Terral REV 26HR23			212			1.8	61	20
Croplan Genetics 8505 VT3P			211			0.0	59	19
Syngenta NK N78S-3111			209			0.3	56	21

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TABLE 4. CONTINUED.

Brand name - hybrid	Grain yield			Lodging			Test-weight <i>lb/bu</i>	Harvest moisture <i>-- % --</i>
	3-yr	2-yr	2012	3-yr	2-yr	2012		
	<i>----- bu/acre -----</i>			<i>----- % -----</i>				
DynaGro D 54VP81			207			0.0	59	19
Croplan Genetics 6960 VT3PRO			207			0.0	59	19
DynaGro D 57VP51			206			0.0	59	20
Terral REV 27HR83			205			0.0	60	20
Terral REV 22BHR43			201			0.3	61	18
Dekalb DKC 61-88			199			0.0	58	16
Terral REV 25BHR63			198			0.3	58	21
DynaGro D 52VC91			197			0.0	59	16
Agusta A6867GTCBLLC			196			0.3	59	19
Dekalb DKC 65-67			196			0.0	58	18
Agusta A0606GTCBLLC			189			0.5	56	17
Syngenta NK N74R-3000GT			189			0.3	57	20
Terral REV 21HR33			187			0.5	59	18
Terral REV 23RE73			186			0.0	61	19
Agusta A0720GTCBLLC			186			0.0	57	18
Dekalb DKC 62-97 (GENVT3P)			179			0.3	57	17
Croplan Genetics 6160 VT3PRO			173			0.0	58	18
<i>Test Average</i>	204	197	204					
<i>LSD0.10</i>	10	12	19					
<i>CV(%)</i>	9	9	10					

† The 2012 irrigated test received 8.80 inches of water.

TABLE 5. ONE, TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR CORN HYBRIDS AT PRATTVILLE IN CENTRAL ALABAMA, 2010-2012

Brand name - hybrid	Grain yield			Lodging			Test-weight <i>lb/bu</i>	Harvest moisture <i>-- % --</i>
	3-yr	2-yr	2012	3-yr	2-yr	2012		
	<i>----- bu/acre -----</i>			<i>----- % -----</i>				
Dekalb DKC 64-69 (GENVT3P)	87	80	85	0.3	0.4	0.0	53	12
Terral-REV 28HR30	73	58	67	0.2	0.3	0.0	56	11
Terral-REV 28HR20	71	53	61	0.3	0.4	0.0	58	12
Terral-REV 28R10	68	56	61	0.1	0.1	0.0	57	12
Dekalb DKC 67-57 (GENVT3P)		99	98		0.4	0.0	56	11
Croplan Genetics 8410 VT3PRO		85	88		0.5	0.0	56	11
Terral REV 27HR52		53	61		0.0	0.0	53	12
Croplan Genetics 6640 VT3PRO			92			0.0	55	11
Dekalb DKC 67-88			92			0.0	56	10
Terral REV 23RE73			90			0.0	58	11
Dekalb DKC 66-97			89			0.0	54	10
Croplan Genetics 8621 VT3PRO			88			0.0	55	10
Golden Acres 27V01			85			0.0	53	12
Terral REV 29HR13			85			0.0	56	12
Dekalb DKC 62-97 (GENVT3P)			84			0.0	53	11
Terral REV 25BHR63			83			0.0	56	11
Dekalb DKC 68-03			82			0.0	54	10
Terral REV 22BHR43			81			0.0	57	11
Golden Acres 28V81			81			0.0	56	10
Terral-REV 26HR50			75			0.0	57	12
Dekalb DKC 65-67			74			0.0	53	12
Terral REV 21HR33			67			0.0	55	11
Terral REV 24BHR93			62			0.0	56	12
Terral REV 27HR83			62			0.0	54	11
Terral REV 26HR23			59			0.0	57	12
Test Average	75	69	78					
LSD0.10	6	9	9					
CV(%)	15	19	13					

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TABLE 6. ONE, TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR THE NO-TILL EARLY CORN TEST AT SHORTER IN CENTRAL ALABAMA, 2010-2012.

Brand name - hybrid	Grain yield			Lodging			Test-weight	Harvest moisture
	3-yr	2-yr	2012	3-yr	2-yr	2012		
	----- bu/acre -----			----- % -----			lb/bu	-- % --
Dekalb DKC 64-69 (GENVT3P)	115	99	115	0.0	0.0		56	9
Terral-REV 28HR30	109	95	123	0.0	0.0		57	10
Terral-REV 28HR20	104	93	130	0.0	0.0		60	9
Terral-REV 28R10	102	87	106	0.0	0.0		58	10
Dekalb DKC 67-57 (GENVT3P)		126	144		0.0		59	10
Croplan Genetics 8410 VT3PRO		111	132		0.0		58	10
Terral REV 27HR52		77	102		0.0		55	10
Dekalb DKC 66-97			132				57	10
Terral REV 25BHR63			129				58	11
Terral REV 24BHR93			128				58	10
Dekalb DKC 68-03			127				57	11
Terral-REV 26HR50			121				58	9
Dekalb DKC 65-67			120				56	9
Croplan Genetics 8621 VT3PRO			119				56	10
Terral REV 27HR83			119				58	9
Dekalb DKC 67-88			119				58	10
Terral REV 29HR13			116				57	10
Terral REV 22BHR43			114				59	10
Golden Acres 27V01			114				55	8
Terral REV 23RE73			112				60	9
Dekalb DKC 62-97 (GENVT3P)			112				55	9
Croplan Genetics 6640 VT3PRO			107				58	10
Terral REV 26HR23			103				60	9
Golden Acres 28V81			101				57	9
Terral REV 21HR33			101				57	9
Test Average	108	99	118					
LSD0.10	7	10	17					
CV(%)	12	15	16					

TABLE 7. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR CORN IN SOUTHERN ALABAMA, 2010-2012[†]

Brand name - hybrid	Grain yield		% stalks lodging	
	3-yr	2-yr	3-yr	2-yr
	----- bu/acre -----		----- % -----	
Dekalb DKC 64-69 (GENVT3P)	113	100	0.2	0.2
Golden Acres 27V01	111	94	1.2	1.8
Terral-REV 28R10	110	95	1.1	1.7
Croplan Genetics 7131 VT3	110	100	0.5	0.8
DynaGro 56VP79	110	96	0.9	1.4
Terral-REV 28HR20	110	97	1.0	1.4
Terral-REV 26HR50	105	90	0.5	0.8
Terral-REV 28HR30	100	85	2.7	4.2
DynaGro D 56VP10		104		0.7
Dekalb DKC 67-57 (GENVT3P)		98		0.2
Croplan Genetics 8410 VT3PRO		97		0.3
DynaGro D 58VP30		95		0.6
Syngenta NK N78S-3111		92		2.1
Test Average	109	96		
LSD0.10	4	6		
CV(%)	11	15		

[†] Data from Headland 2011 not included because of crop failure.

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TABLE 8. 2012 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN SOUTHERN ALABAMA

Brand name - hybrid	Fair- hope	Brew- ton	Head- land	2012 regional averages			
				Yield	Lodg- ing	Test- weight	Harvest moisture
				----- bu/acre -----	-- % --	lb/bu	-- % --
Croplan Genetics 6640 VT3PRO	180	119	76	125	4	56	19
DynaGro D 57VP51	187	105	81	124	1.5	56	19
Terral REV 29HR13	196	100	68	121	0.5	56	19
Terral-REV 28HR20	197	102	60	120	1.0	56	19
Dekalb DKC 64-69 (GENVT3P)	173	100	80	118	0.2	56	19
Dekalb DKC 67-57 (GENVT3P)	169	99	83	117	0.4	57	18
Terral-REV 28R10	186	97	65	116	1.5	56	19
Croplan Genetics 7131 VT3	166	96	86	116	1.3	55	19
Dekalb DKC 62-09 (GENVT3P)	170	98	80	116	0.0	56	18
Terral REV 22BHR43	169	97	79	115	2.9	57	18
Dekalb DKC 67-88	179	88	73	113	1.1	56	19
DynaGro D 55VP77	149	118	73	113	0.4	56	18
Croplan Genetics 8505 VT3P	162	95	82	113	1.1	57	18
Terral REV 25BHR63	180	88	71	113	0.5	55	19
DynaGro D 56VP10	152	106	79	112	1.1	57	18
Terral-REV 28HR30	186	94	56	112	4.0	56	19
Dekalb DKC 66-97	162	100	73	112	1.1	56	18
Croplan Genetics 8410 VT3PRO	166	95	70	111	0.5	56	18
Terral-REV 26HR50	168	95	68	110	1.5	56	20
DynaGro D 58VP30	153	95	80	109	1.4	57	18
Golden Acres 27V01	158	88	80	109	3.3	55	18
Croplan Genetics 8621 VT3PRO	164	84	77	108	1.9	57	18
Dekalb DKC 68-03	124	107	92	108	3.0	55	18
Terral REV 26HR23	147	109	66	107	5.5	57	18
Terral REV 27HR83	165	79	75	106	3.9	56	19
Terral REV 24BHR93	162	82	74	106	8.1	56	18
DynaGro 56VP79	132	100	82	105	3.4	57	18
Syngenta NK N78S-3111	153	90	69	104	4.4	55	18
Golden Acres 28V81	143	91	75	103	0.7	56	18
Terral REV 23RE73	162	62	81	102	1.4	57	18
Dekalb DKC 62-97 (GENVT3P)	143	82	71	99	1.9	55	18
Terral REV 21HR33	144	73	75	97	1.3	57	18
DynaGro D 54VP81	135	79	65	93	1.3	56	19
Test Average	163	94	75	111			
LSD0.10	21	14	14	6			
CV(%)	14	16	20	14			

TABLE 9. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, HEADLAND, ALABAMA, 2010-2012[†]

Brand name - hybrid	Grain yield			Lodging			Test- weight <i>lb/bu</i>	Harvest moisture <i>-- % --</i>
	3-yr	2-yr	2012	3-yr	2-yr	2012		
	<i>----- bu/acre -----</i>			<i>----- % -----</i>				
Terral-REV 28HR30	208	209	234	0.0	0.0	0.0	56	20
Terral-REV 28HR20	208	209	210	0.0	0.0	0.0	56	20
Terral-REV 26HR50	204	203	204	0.0	0.0	0.0	57	20
Dekalb DKC 64-69 (GENVT3P)	203	203	214	0.0	0.0	0.0	59	20
Golden Acres 27V01	201	197	207	0.0	0.0	0.0	54	20
Terral-REV 28R10	199	194	198	0.0	0.0	0.0	57	20
Croplan Genetics 7131 VT3	197	200	212	0.0	0.0	0.0	55	20
DynaGro 56VP79	185	181	196	0.0	0.0	0.0	59	20
DynaGro D 58VP30		206	214		0.0	0.0	56	20
Dekalb DKC 67-57 (GENVT3P)		198	207		0.0	0.0	59	20
Croplan Genetics 8410 VT3PRO		197	214		0.0	0.0	60	20
Syngenta NK N78S-3111		191	202		0.0	0.0	55	20
DynaGro D 56VP10		188	196		0.0	0.0	59	20

EVALUATIONS OF CORN HYBRIDS IN ALABAMA 2012

TABLE 9. CONTINUED†

Brand name - hybrid	Grain yield			Lodging			Test-weight lb/bu	Harvest moisture -- % --
	3-yr	2-yr	2012	3-yr	2-yr	2012		
	----- bu/acre -----			----- % -----				
Croplan Genetics 6640 VT3PRO			236			0.0	58	20
Dekalb DKC 68-03			221			0.0	57	20
Croplan Genetics 8505 VT3P			219			0.0	57	20
Golden Acres 28V81			218			0.0	57	20
Dekalb DKC 66-97			217			0.0	58	20
Dekalb DKC 67-88			215			0.0	57	20
Terral REV 29HR13			215			0.0	56	20
DynaGro D 57VP51			214			0.0	59	20
Terral REV 25BHR63			209			0.0	58	20
Terral REV 24BHR93			208			0.0	55	20
Croplan Genetics 8621 VT3PRO			208			0.0	56	20
DynaGro D 54VP81			207			0.0	59	20
Dekalb DKC 62-09 (GENVT3P)			202			0.0	56	20
DynaGro D 55VP77			201			0.0	59	20
Terral REV 26HR23			199			0.0	56	20
Terral REV 27HR83			197			0.0	57	20
Terral REV 22BHR43			196			0.0	57	20
Terral REV 23RE73			191			0.0	59	20
Terral REV 21HR33			185			0.0	58	20
Dekalb DKC 62-97 (GENVT3P)			179			0.0	56	20
Test Average	200	198	207					
LSD0.10	7	8	12					
CV(%)	7	6	7					

† The 2012 irrigated test received 7.75 inches of water.

TABLE 10. GROWING SEASON RAINFALL, 2010-2012.

Location	Year	----- Monthly rainfall in inches -----							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina									
	2012	3.4	1.7	3.2	1.3	8.7	3.4	5.5	27.2
	2011	9.5	11.5	2.8	3.4	4.7	4.6	5.8	42.3
	2010	4.6	2.8	6.2	2.7	4.3	1.4	1.9	23.9
Crossville									
	2012	5.3	1.2	2.0	3.4	6.0	4.3	5.5	27.7
	2011	8.7	7.6	2.3	7.0	5.5	1.8	8.9	41.8
	2010	5.4	5.5	5.6	2.9	0.7	1.8	1.5	23.4
Shorter									
	2012	3.3	1.2	9.1	2.3	4.3	4.9	2.8	27.9
	2011	5.4	2.3	2.4	3.7	6.6	0.5	5.8	26.7
	2010	5.4	1.3	5.5	2.2	4.6	4.5	1.7	25.2
Prattville									
	2012	5.4	1.6	5.3	3.5	1.3	4.8	3.7	25.6
	2011	7.8	3.1	4.8	2.7	4.5	2.0	3.8	28.7
	2010	4.8	1.7	4.1	4.2	4.4	3.6	0.6	23.4
Brewton									
	2012	2.0	3.1	3.8	9.9	9.4	9.6	4.1	41.9
	2011	7.9	4.3	3.1	5.2	7.7	2.3	5.4	35.9
	2010	3.9	2.7	6.4	2.1	4.6	10.5	0.9	31.1
Headland									
	2012	4.7	1.9	2.8	3.3	2.5	7.4	4.3	26.9
	2011	3.7	2.9	0.2	1.8	7.6	1.6	2.1	19.9
	2010	2.3	2.6	5.0	5.1	1.9	2.9	1.6	21.4
Fairhope									
	2012	2.2	2.6	7.5	11.3	7.9	4.6	3.8	39.9
	2011	4.6	1.1	0.9	3.9	10.1	1.2	11.1	32.9
	2010	5.2	2.0	7.0	5.0	2.2	10.3	6.3	38.0

EVALUATIONS OF CORN HYBRIDS IN ALABAMA 2012

TABLE 11. SOIL TYPES FOR CORN TRIALS, 2012.

Test location	Soil type
North	
Belle Mina.....	Decatur silt loam
Crossville	Wynnvilleville fine sandy loam
Central	
Shorter.....	Norfolk sandy loam
Prattville.....	Lucedale fine sandy loam
South	
Brewton.....	Benndale fine sandy loam
Headland	Dothan sandy loam
Fairhope	Malbis fine sandy loam

SOURCE OF 2012 CORN HYBRID TRIAL SEED

Seed Company	Brand	Seed Company	Brand
Augusta Seed P.O. Box 899 Verona, VA 24482	Augusta	Syngenta NK Brand Seed 112 Meadowlark Lane Indianola, MS 38751	NK Brand
Crop Production Services 544 Pridgen Pond Rd Kinston, AL 36453	Dyna-Gro	Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254	Terral REV
Golden Acres Genetics 1529 Hwy 193 Wynne, AR 72396	Golden Acres	Winfield Solutions P.O. Box 614 Midland City, AL 36350	Croplan Genetics
Monsanto Company 800 N. Lindbergh Blvd St. Louis, MO 63167	Dekalb DKC		