

*Evaluations of
Corn Hybrids
in Alabama,
2008*

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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. 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. 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.

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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 2008 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 8	175	25,000	September 3	Atrazine/Dual
Regular test (irrigated)	April 8	200	30,000	September 3	Atrazine/Dual
Sand Mountain Res. and Ext. Ctr. (Crossville)					
Regular test	April 2	120	25,000	September 5	Atrazine/Dual
CENTRAL ALABAMA					
E.V. Smith Research Center (Shorter)					
No-Till Early corn test	March 27	160	28,000	August 18	Atrazine/Dual
Prattville Experiment Field (Prattville)					
	March 27	110	25,000	September 3	Atrazine/Dual
SOUTHERN ALABAMA					
Brewton Experiment Field (Brewton)					
	March 28	120	25,000	August 30	Atrazine
Wiregrass Res. and Ext. Ctr. (Headland)					
Regular test (non-irrigated)	March 26	120	25,000	September 2	Atrazine/Dual
Regular test (irrigated)	March 26	200	30,000	September 3	Atrazine/Dual
Gulf Coast Res. and Ext. Ctr. (Fairhope)					
Regular test	March 27	150	25,000	August 18	Atrazine/Dual

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

TABLE 2. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR YELLOW CORN IN NORTHERN ALABAMA, 2006-2008

Brand name - hybrid	Grain yield		% stalks lodging	
	3-yr	2-yr	3-yr	2-yr
	----- bu/acre -----		----- % -----	
Dyna-Gro 58K02	78	84	2.3	1.8
Asgrow RX715 RR/YGCB	.	96	.	0.9
DynaGro 58K81	.	82	.	1.0
NK Brand N 68-B8	.	72	.	0.8
Southern States SS 791 CL	.	65	.	1.8
Test Average	.	80	.	.
LSD_{0.10}	.	14	.	.
CV (%)	.	33	.	.

TABLE 3. 2008 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN NORTHERN ALABAMA

Brand name - hybrid	Belle Mina	Cross- ville	2008 regional averages					
			Yield	Lodging	Test- weight	Mid- silk	Husk cover	Harvest moisture
	----- bu/acre	----- bu/acre	----- -- % --	----- -- % --	lb/bu	mo-day	----- -- % --	----- -- % --
DynaGro CX 07610	84	83	84	1.4	55.5	6-15	2.1	12.1
Croplan Genetics 6986 VT3	78	88	83	1.3	57.9	6-15	2.1	13.9
Croplan Genetics 7131 VT3	86	79	82	2.0	56.7	6-15	1.9	13.5
NK Brand NX 7976 (CB/LL)	84	77	81	0.8	56.4	6-15	2.0	13.5
Dekalb NE 6458 (YGCB)	85	76	80	2.6	55.5	6-13	2.3	12.0
NK Brand N78N-GT/CB/LL	83	77	80	0.6	55.5	6-16	2.1	17.7
DynaGro 57B90	82	78	80	2.6	55.7	6-15	2.1	13.7
Dekalb DKC 67-23 (RR2/YGCB)	80	79	79	2.6	57.4	6-16	2.1	14.9
Dekalb NE 6640 (YGCB)	76	81	79	1.1	56.3	6-15	2.1	16.0
Dekalb DKC 63-42 (VT3)	84	72	78	3.3	53.9	6-14	2.3	11.5
Asgrow RX715 RR/YGCB	85	71	78	1.4	54.9	6-13	2.3	12.2
Croplan Genetics 6831 VT3	79	72	75	5.3	56.0	6-17	2.0	13.1
Croplan Genetics 8702 RH	78	71	75	1.9	54.8	6-18	2.5	14.1
Croplan Genetics 6150 VT3	78	70	74	1.4	57.2	6-15	2.3	14.5
Croplan Genetics 6331 VT3	74	73	74	0.4	55.4	6-15	2.1	12.8
Croplan Genetics 5892 VT3	80	68	74	2.8	55.4	6-16	2.0	12.5
Garst 82R45 GT	69	78	73	4.4	55.3	6-17	2.4	15.8
Croplan Genetics 751 RR2/Bt	80	66	73	1.3	55.5	6-16	2.1	14.8
Croplan Genetics 851RR2/BT	74	71	72	5.1	54.0	6-20	2.1	15.7
NK Brand N 68-B8	72	71	72	1.3	54.1	6-16	2.0	11.9
Southern States SS 777 VT3	65	77	71	4.8	55.2	6-16	1.9	13.9
Dyna-Gro 58K02	75	65	70	0.9	53.5	6-21	2.4	16.8
Southern States SS 775 RR2	75	66	70	1.6	55.2	6-18	2.0	13.2
Golden Acres 27Z07	73	65	69	3.1	54.7	6-19	2.1	15.2
NK Brand N77P-3000 GT	67	70	68	1.9	55.9	6-17	2.1	13.6
Dekalb DKC 66-23 (RR2/YGCB)	70	64	67	3.4	56.1	6-16	2.0	13.9
Croplan Genetics 6631 VT3	63	69	66	2.1	55.4	6-15	2.0	12.1
Croplan Genetics 7505 VT3	74	57	66	1.4	57.6	6-15	2.1	15.5
Croplan Genetics 9850 RB	64	65	65	0.9	55.8	6-19	2.1	19.1
Croplan Genetics 6425 VT3	68	61	64	7.3	55.9	6-13	2.1	12.5
Golden Acres 26Z17	51	67	59	0.9	57.4	6-16	2.1	15.0
DynaGro 58K81	47	65	56	1.5	55.5	6-24	2.1	16.9
Southern States SS 791 CL	42	45	43	1.4	57.8	6-22	2.3	16.0
Test Average	74	71	72	2.3
LSD_{0.10}	26	11	8
CV (%)	39	17	17

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TABLE 4. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, BELLE MINA, ALABAMA, 2006-2008

Brand name - hybrid	Grain yield			Lodging			Test-weight lb/bu	Mid-silk mo-day	Husk cover	Harvest moisture -- % --
	3-yr	2-yr	2008	3-yr	2-yr	2008				
	----- bu/acre -----			----- % -----						
Dyna-Gro 58K02	180	194	182	4.8	5.6	10.5	56	6-19	2.0	17.7
Asgrow RX715 RR/YGCB	.	203	201	.	5.3	9.0	59	6-13	3.0	16.2
NK Brand N 68-B8	.	188	196	.	0.6	0.3	57	6-14	1.3	16.0
DynaGro 58K81	.	188	171	.	3.0	5.3	59	6-20	2.3	18.1
Southern States SS 791 CL	.	175	155	.	5.8	10.8	60	6-21	1.8	17.7
Croplan Genetics 7505 VT3	.	.	226	.	.	0.3	61	6-15	1.0	21.0
Southern States SS 777 VT3	.	.	226	.	.	12.3	57	6-17	1.8	18.2
Croplan Genetics 6986 VT3	.	.	222	.	.	1.0	60	6-13	1.8	18.4
NK Brand NX 7976 (CB/LL)	.	.	220	.	.	2.0	57	6-16	1.5	18.5
Garst 82R45 GT	.	.	215	.	.	3.0	58	6-15	1.8	17.4
Croplan Genetics 7131 VT3	.	.	213	.	.	3.0	57	6-15	1.0	19.3
NK Brand N78N-GT/CB/LL	.	.	212	.	.	0.5	58	6-17	1.0	21.1
Dekalb NE 6640 (YGCB)	.	.	211	.	.	0.3	56	6-16	1.3	21.3
Dekalb DKC 63-42 (VT3)	.	.	210	.	.	1.0	59	6-14	3.5	17.2
Croplan Genetics 6631 VT3	.	.	210	.	.	13.0	58	6-15	1.5	17.7
Croplan Genetics 6425 VT3	.	.	208	.	.	2.8	59	6-15	2.5	17.7
Croplan Genetics 851RR2/BT	.	.	208	.	.	10.8	54	6-19	1.5	19.5
Croplan Genetics 5892 VT3	.	.	206	.	.	2.8	61	6-15	2.0	17.5
Croplan Genetics 751 RR2/Bt	.	.	197	.	.	15.5	56	6-17	1.8	18.7
Croplan Genetics 6831 VT3	.	.	197	.	.	17.3	58	6-14	2.0	17.5
NK Brand N77P-3000 GT	.	.	195	.	.	0.8	57	6-16	1.0	17.0
Golden Acres 26Z17	.	.	195	.	.	9.5	58	6-15	2.3	18.6
Dekalb DKC 67-23 (RR2/YGCB)	.	.	195	.	.	3.0	60	6-16	2.5	19.0
DynaGro 57B90	.	.	193	.	.	6.3	57	6-13	2.0	17.7
Dekalb DKC 66-23 (RR2/YGCB)	.	.	190	.	.	4.0	58	6-13	2.5	16.7
Dekalb NE 6458 (YGCB)	.	.	189	.	.	4.3	58	6-13	2.5	17.4
Golden Acres 27Z07	.	.	187	.	.	23.8	54	6-19	1.5	16.6
Croplan Genetics 6331 VT3	.	.	187	.	.	4.0	57	6-14	2.3	18.1

continued

TABLE 4. CONTINUED.

Brand name - hybrid	Grain yield			Lodging			Test-weight <i>lb/bu</i>	Mid-silk <i>mo-day</i>	Husk cover	Harvest moisture <i>-- % --</i>
	3-yr	2-yr	2008	3-yr	2-yr	2008				
	<i>----- bu/acre -----</i>			<i>----- % -----</i>						
DynaGro CX 07610	.	.	187	.	.	7.3	57	6-13	2.0	15.4
Croplan Genetics 6150 VT3	.	.	186	.	.	0.5	60	6-15	3.0	17.0
Croplan Genetics 9850 RB	.	.	180	.	.	3.5	58	6-19	1.0	20.7
Croplan Genetics 8702 RH	.	.	167	.	.	6.0	56	6-18	1.3	19.2
Southern States SS 775 RR2	.	.	153	.	.	29.0	57	6-17	2.0	16.3
Test Average	180	190	197	4.8	4.1	6.8	.	.	.	.
LSD_{0.10}	.	18	35	.	.	.	.	.	.	.
CV (%)	1	15	20	.	.	.	.	.	.	.

† The 2008 irrigated test received 6.7 inches of water.

**TABLE 5. ONE, TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR
YELLOW CORN AT PRATTVILLE IN CENTRAL ALABAMA, 2006-2008**

† The 2008 trial was lost due to drought and severe storm damage.

TABLE 6. ONE, TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR THE NO-TILL EARLY CORN TEST AT SHORTER IN CENTRAL ALABAMA, 2006-2008.

Brand name - hybrid	Grain yield			Lodging			Test-weight	Mid-silk	Husk cover	Harvest moisture
	3-yr	2-yr †	2008	3-yr	2-yr †	2008				
	---- bu/acre ----			----- % -----			lb/bu	mo-day		-- % --
Dyna Gro 58K40	.	71	120	.	0.0	0.0	59	1-21	.	21.7
Dekalb DKC 66-23 (RR2/YGCB)	.	58	84	.	0.1	0.3	58	1-22	.	22.7
Dekalb DKC 67-23 (RR2/YGCB)	.	59	88	.	0.0	0.0	57	1-22	.	22.6
Dekalb DKC 69-71	.	60	105	.	0.0	0.0	60	1-22	.	22.6
NK Brand N78N-GT/CB/LL	.	.	119	.	.	0.3	58	1-22	.	22.9
Croplan Genetics 9009 RR	.	.	118	.	.	0.0	61	1-26	.	26.0
Croplan Genetics 8756 RR/BT	.	.	116	.	.	0.0	60	1-22	.	22.2
Dekalb NE 6640 (YGCB)	.	.	113	.	.	0.0	59	1-22	.	22.0
Dekalb DKC 61-69 (VT3)	.	.	105	.	.	0.0	58	1-20	.	20.1
Dekalb DKC 69-40 (VT3)	.	.	103	.	.	0.0	61	1-21	.	21.3
Garst 82R45 GT	.	.	102	.	.	0.0	58	1-21	.	21.7
Dekalb DKC 67-87 (RR2/YGCB)	.	.	100	.	.	0.0	59	1-23	.	23.6
Dekalb NE 6458 (YGCB)	.	.	99	.	.	0.0	58	1-19	.	19.7
NK Brand NX 7976 (CB/LL)	.	.	99	.	.	0.3	58	1-22	.	22.3
NK Brand N77P-3000 GT	.	.	98	.	.	0.0	57	1-22	.	22.2
NK Brand N 68-B8	.	.	94	.	.	0.3	57	1-20	.	20.7
Croplan Genetics 6886 VT3	.	.	92	.	.	0.0	59	1-21	.	21.1
Southern States SS 791 CL	.	.	86	.	.	0.3	59	1-19	.	19.3
DynaGro 57N96	.	.	85	.	.	1.0	57	1-22	.	22.8
DynaGro 58K81	.	.	85	.	.	-0.0	60	1-21	.	21.8
Southern States SS 777 VT3	.	.	82	.	.	0.3	58	1-22	.	22.8
Southern States SS 775 RR2	.	.	74	.	.	0.0	58	1-21	.	21.8
Croplan Genetics 6831 VT3	.	.	70	.	.	0.0	58	1-21	.	21.9
Test Average	.	62	97	.	0.0	0.1	.	.	.	.
LSD_{0.10}	.	9	16	.	.	.	.	.	.	.
CV (%)	.	21	17	.	.	.	.	.	.	.

† The 2007 test at Shorter was lost due to prolong drought conditions, the 2-yr averages thus represent data from 2006 and 2008.

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TABLE 7. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR YELLOW CORN IN SOUTHERN ALABAMA, 2006-2008[†]

Brand name - hybrid	Grain yield [†]		% stalks lodging [†]	
	3-yr	2-yr	3-yr	2-yr
	----- bu/acre -----		----- % -----	
Dyna Gro 58K40	98	100	2.2	1.6
Dyna-Gro 58K02	98	105	3.0	1.2
Dekalb DKC 69-71	97	105	1.5	1.4
Croplan Genetics 851RR2/BT	91	96	4.3	3.6
Dekalb DKC 66-23 (RR2/YGCB)	81	80	2.5	2.5
DynaGro 58K81	.	91	.	1.5
Dekalb DKC 67-87 (RR2/YGCB)	.	91	.	0.3
NK Brand N 77-P5	.	90	.	1.4
Southern States SS 791 CL	.	74	.	1.9
Test Average	93	92	.	.
LSD_{0.10}	5	7	.	.
CV (%)	14	18	.	.

[†] Data from Headland not included due to prolonged drought during all three reported years.

TABLE 8. 2008 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN SOUTHERN ALABAMA

Brand name - hybrid	Fair- hope	Brew- ton	Head- land	2008 regional averages					
				Yield	Lodg- ing	Test- weight	Mid- silk	Husk cover	Harvest moist.
	-----	-----	-----	bu/acre	-- % --	lb/bu	mo-day		-- % --
Dekalb DKC 69-71	137	132	†	134	-0.0	53	.	3	17.5
Southern States SS 775 RR2	155	113	†	134	0.1	52	.	3	17.4
Southern States SS 777 VT3	132	126	†	129	1.3	53	.	2	16.9
Croplan Genetics 8756 RR/BT	137	115	†	126	0.0	53	.	3	17.4
Croplan Genetics 851RR2/BT	125	122	†	123	0.5	51	.	3	16.9
Dyna-Gro 58K02	125	121	†	123	1.1	56	.	3	17.2
NK Brand N 77-P5	121	125	†	123	0.4	57	.	3	16.7
Golden Acres 26Z17	129	113	†	121	0.1	53	.	3	16.9
Golden Acres 27Z07	121	119	†	120	3.5	53	.	3	17.1
Croplan Genetics 9009 RR	129	111	†	120	4.6	54	.	2	18.5
Dekalb NE 6458 (YGCB)	135	103	†	119	0.1	53	.	3	17.1
Dekalb NE 6640 (YGCB)	121	116	†	119	0.3	52	.	3	17.4
Garst 82R45 GT	129	109	†	119	0.3	55	.	3	17.2
NK Brand N78N-GT/CB/LL	125	112	†	119	0.1	56	.	3	17.9
Croplan Genetics 6886 VT3	135	102	†	119	0.1	56	.	3	17.0
Dekalb DKC 69-40 (VT3)	124	113	†	119	0.5	55	.	3	17.2
Dyna Gro 58K40	126	110	†	118	1.6	53	.	2	17.5
Dekalb DKC 66-23 (RR2/YGCB)	131	102	†	116	1.1	56	.	3	17.1
Dekalb DKC 67-87 (RR2/YGCB)	122	110	†	116	0.3	52	.	3	17.4
Croplan Genetics 6831 VT3	122	106	†	114	0.8	53	.	3	16.8
Dekalb DKC 61-69 (VT3)	121	104	†	112	0.3	56	.	3	17.4
DynaGro 58K81	118	100	†	109	0.5	56	.	3	17.3
Southern States SS 791 CL	120	87	†	104	0.3	54	.	3	17.2
Test Average	128	112	.	120	0.8	.	.	.	.
LSD_{0.10}	20	9	.	9	1.0	.	.	.	.
CV (%)	17	9	.	18	

† The 2008 test at Headland was lost due to prolong drought conditions

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TABLE 9. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, HEADLAND, ALABAMA, 2006-2008

Brand name - hybrid	Grain yield			Lodging			Test-weight lb/bu	Mid-silk mo-day	Husk cover	Harvest moisture -- % --
	3-yr	2-yr	2008	3-yr	2-yr	2008				
	----- bu/acre -----			----- % -----						
Dyna Gro 58K40	183	178	179	0.7	0.0	0.0	56	6-4	1.3	13.6
Dekalb DKC 69-71	174	163	171	2.6	0.0	0.0	56	6-7	1.8	13.0
Dyna-Gro 58K02	173	168	178	1.8	0.1	0.0	52	6-5	2.3	12.4
Croplan Genetics 851RR2/BT	171	163	167	4.5	0.4	0.8	51	6-5	2.5	11.6
Dekalb DKC 66-23 (RR2/YGCB)	159	141	150	4.6	0.0	0.0	53	6-3	2.0	12.1
Dekalb DKC 67-87 (RR2/YGCB)	.	150	139	.	0.1	0.3	51	6-7	2.0	12.0
DynaGro 58K81	.	149	160	.	0.0	0.0	53	6-8	1.8	12.2
NK Brand N 77-P5	.	146	141	.	0.5	0.0	53	6-6	1.8	11.9
Southern States SS 791 CL	.	98	102	.	0.0	0.0	52	6-6	2.8	12.1
Croplan Genetics 9009 RR	.	.	171	.	.	0.0	58	6-4	2.0	15.0
Croplan Genetics 8756 RR/BT	.	.	168	.	.	0.0	54	6-5	3.3	12.4
Golden Acres 27Z07	.	.	167	.	.	0.0	52	6-6	2.5	11.7
Dekalb NE 6640 (YGCB)	.	.	164	.	.	0.0	55	6-7	1.5	12.4
Dekalb DKC 69-40 (VT3)	.	.	159	.	.	0.0	57	6-3	1.5	12.9
Southern States SS 775 RR2	.	.	149	.	.	0.0	54	6-5	2.3	12.4
Garst 82R45 GT	.	.	147	.	.	0.0	53	6-7	2.8	12.5
Dekalb DKC 61-69 (VT3)	.	.	146	.	.	0.0	52	6-4	2.3	12.1
Croplan Genetics 6831 VT3	.	.	145	.	.	0.0	54	6-4	2.0	12.2
Golden Acres 26Z17	.	.	140	.	.	0.0	51	6-4	2.8	11.7
Southern States SS 777 VT3	.	.	140	.	.	0.0	52	6-6	2.0	11.7
NK Brand N78N-GT/CB/LL	.	.	124	.	.	0.0	54	6-6	2.5	12.5
Croplan Genetics 6886 VT3	.	.	119	.	.	0.0	53	6-5	3.0	12.2
Dekalb NE 6458 (YGCB)	.	.	112	.	.	0.0	51	6-6	2.8	12.6
Test Average	172	151	149	2.8	0.1	0.0	.	.	.	.
LSD_{0.10}	10	11	17	.	.	.	.	.	.	.
CV (%)	11	11	13	.	.	.	.	.	.	.

† The 2008 irrigated test received 9.1 inches of water.

TABLE 10. GROWING SEASON RAINFALL, 2006-2008.

Location	Year	----- Monthly rainfall in inches -----							7-month total
		Mar.	Apr.	May	June	July	Aug.	Sept.	
Belle Mina									
	2008	3.9	4.2	4.8	3.2	2.7	5.4	0.9	25.1
	2007	1.1	4.6	1.0	1.2	3.7	1.1	1.2	13.9
	2006	2.0	4.9	4.2	1.8	2.4	2.5	3.1	20.9
Crossville									
	2008	5.3	3.9	4.8	1.1	0.7	8.7	1.4	25.9
	2007	1.3	4.4	0.7	1.6	4.3	3.0	4.3	19.6
	2006	2.8	6.6	3.6	2.9	1.2	1.9	5.5	24.5
Shorter									
	2008	3.4	5.0	2.4	4.1	4.3	10.4	0.9	30.5
	2007	3.4	2.0	0.3	0.8	7.0	2.0	2.3	17.8
	2006	3.7	1.9	3.6	1.2	2.3	4.9	3.1	20.7
Prattville									
	2008	6.3	5.7	4.9	3.6	4.9	9.0	1.4	35.8
	2007	1.0	2.5	0.6	1.6	2.8	2.9	1.9	13.3
	2006	5.3	2.2	3.1	0.8	3.4	2.5	3.2	20.5
Brewton									
	2008	3.2	5.8	4.5	9.1	6.0	12.0	2.1	42.7
	2007	1.0	11.6	1.3	3.5	6.7	6.1	6.5	36.7
	2006	2.8	2.8	7.0	2.7	3.6	8.9	4.0	31.8
Fairhope									
	2008	4.3	5.5	9.3	3.3	5.4	8.7	7.7	44.2
	2007	0.5	3.4	1.9	6.4	7.1	5.9	6.6	31.8
	2006	0.4	6.1	3.2	1.3	5.4	4.2	5.3	25.9
Headland									
	2008	2.1	4.1	0.9	3.6	4.9	10.3	1.4	27.3
	2007	1.3	7.3	0.1	1.4	5.2	3.8	4.2	23.3
	2006	0.7	1.2	4.1	2.6	2.7	3.5	4.6	19.4

TABLE 11. SOIL TYPES FOR CORN TRIALS, 2008.

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 2008 CORN HYBRID TRIAL SEED

Seed Company	Brand	Seed Company	Brand
Golden Acres Genetics P.O. Box 579 Buchanan Dam, TX 78609	Golden Acres	Syngenta/NK Seed 13760 Appomattox Cr. Laurinburg, NC 28352	Garst/NK Brand
Land O'Lakes P.O. Box 614 Midland City, AL 36350	Croplan Genetics	Syngenta/NK Seed 7500 Olsen Memorial Hwy. Golden Valley, MN 55427	Garst/NK Brand
Monsanto Company 800 N. Lindbergh Blvd. St. Louis, MO 63167	Dekalb	United Agri Products 544 Pridgen Pond Rd. Kinston, AL 33453	Dyna-Gro
Southern States 6606 West Broad St. Richmond, VA 23260	SS		