

ARKANSAS COTTON VARIETY TESTS

2001



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UNIVERSITY OF ARKANSAS

DIVISION OF AGRICULTURE

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COTTON
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SUMMARY

The primary aim of the Arkansas Cotton Variety Test is to provide unbiased data regarding the agronomic performance of cotton varieties in the major cotton growing areas in Arkansas. This information helps seed dealers establish marketing strategies and assists producers in choosing varieties to plant. In this way, the annual test facilitates the inclusion of new, improved genetic material into Arkansas cotton production. To identify variety adaptation to different regions of the state, seed companies and public breeders entered varieties for testing in either northern locations (Keiser and Clarkedale), southern locations (Marianna and Rohwer), or both. The northern test had 31 main entries and 29 first-year entries, while the southern test had 33 main entries and 32 first-year entries. This report also includes the Mississippi County Variety Test (an on-farm evaluation of selected varieties).

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2001 Arkansas Cotton Variety Test

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The purpose of the University of Arkansas Cotton Variety Test is to provide an unbiased comparison of cotton varieties. Information included is intended to facilitate variety selection by identifying the potential adaptability of varieties to particular cotton growing regions of the state. Bourland and Benson (2000) documented several unintentional biases that were inherent to the Arkansas cotton variety testing program. These include management associated with varieties expressing herbicide and insect resistance. The biases tend to cancel each other so that no great advantage is given to any particular variety. Recognizing that genetic differences among entries is the ultimate goal of the test, therefore, all varieties are treated the same. Within the official variety test (OVT), no specialized production inputs were implemented with respect to genetically enhanced varieties. Roundup Ready® varieties, Buctril® resistant varieties, Bt varieties, and conventional varieties were all treated equally with respect to weed and insect control.

Materials and Methods

The 2001 Arkansas Cotton Variety Test was conducted at the Northeast Research and Extension Center at Keiser, the Delta Branch Experiment Station at Clarkedale, the Cotton Branch Experiment Station at Marianna, and the Southeast Branch Experiment Station at Rohwer. An irrigated test was conducted at each site, and a non-irrigated test was conducted at Keiser and Marianna. One on-farm variety test was conducted in Mississippi County, located in northeast Arkansas.

Entries were separated into those tested for the first time (1st year entries) and those having been entered in the Arkansas Cotton Variety Test the preceding year. Additionally, varieties could be entered in north Arkansas locations (Keiser irrigated, Keiser non-irrigated, and Clarkedale irrigated); south Arkansas locations (Marianna irrigated, Marianna non-irrigated, and Rohwer irrigated); or in all. All varieties were planted in two-row plots ranging in length from 40 to 50

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feet. Varieties entered in the Mississippi County test were planted in 6-row plots running the full length of the field (approximately 1270 feet). The Mississippi County test included conventional, Roundup-ready, and stacked gene (Roundup, and Bollguard,) varieties. In this test, Roundup, and stacked gene varieties were treated with Roundup applied over-the-top. All tests were arranged in a randomized complete block and replicated four times. Although exact inputs varied across locations, cultural inputs at each location were generally based on University of Arkansas Cooperative Extension Service recommendations for cotton production, including COTMAN rules for insecticide termination (Table 1). All plots were machine-harvested and yield per acre calculated and statistically analyzed.

Data Collected

Leaf Pubescence: Once per season, visual estimates of leaf pubescence were made on 10 plants from each variety. Leaf pubescence data were collected from 2 of the 4 replications of the irrigated tests at Keiser (north test) and Marianna (south test), and included rating individual plants from 1 to 7 (1 = smooth and 7 = very hairy).

Maturity: Starting at approximately first flower, Nodes Above White Flower (NAWF) values were collected from all varieties entered in both the OVT and first-year tests. Due to re-planting at Rohwer and uneven emergence in the non-irrigated test at Keiser, NAWF data were not collected at these locations. NAWF values were collected approximately once per week until each variety had reached cutout (NAWF = 5). Maturity was determined using methods described by Bourland et al. (1991).

Plant Height: Plant height measurements were collected from each variety prior to harvest. Average plant heights for varieties were determined by measuring from the soil surface to the terminal of one average sized plant per plot.

Lint Percentage and Fiber Data: Prior to mechanical harvest, hand-harvested samples of 50 open bolls (25 from each of 2 rows) were obtained from two

replications at each location. Hand-harvested samples were collected from all four replications of the on-farm test in Mississippi county. The 50 boll samples were ginned (lab gin without the use of lint cleaners) to determine lint fraction (the percentage lint to seedcotton). Fiber properties were determined using HVI classification.

Lint Yield: Seedcotton yield per plot was converted to seedcotton yield per acre then multiplied by lint percentage (determined by variety and location) to estimate lint per acre.

Yield Comparison

Uncontrolled variation is inherent to collection of varietal performance data, particularly yield data. In addition to their genetic ability, variation among varieties may be due to slight differences in soil, pest, or climatic conditions within a field, various interactions with specific management, or random chance. Statistics allow users to define the degree of uncontrolled variation and to interpret data. The statistical tool used to compare means in these tests was Fisher's Protected Least Significant Difference (LSD). An LSD was calculated when the F value from ANOVA was significant. Varietal yields are considered significantly different if the difference between the mean yields of two varieties is greater than the LSD value. Differences smaller than the LSD may have occurred by chance or due to uncontrolled variation and are therefore considered not significant.

Additional estimates of variation are provided by measures of R-squared and coefficient of variation (CV). R-squared (times 100) indicates the percentage of variation that is explained by defined sources of variation. Confidence in data increases as R-squared increases. Generally, the meaningfulness of difference among means is questionable when data have R-squared values of less than 50%. To a large extent, confidence in data becomes greater as CV declines. Since CV is a function of the mean of a parameter, R-squared is a better tool for comparing the precision of different experiments.

Environmental Conditions

Environmental conditions varied across the state (Table 2). Temperatures during the 2001 growing season were such that DD60 accumulations were only slightly above the historical average (1960 - 1998) for north and central Arkansas, but well below the historical averages for south Arkansas. Early season rain and hail storms at Rohwer resulted in having to re-plant on June 11.

Results

Table 1

Table 1 represents cultural inputs and production information for variety trials at Keiser (irrigated and non-irrigated); Clarkedale, Marianna (irrigated and non-irrigated); and Rohwer.

Table 2

Table 2 reports weather information for north, central, and south Arkansas during the 2000 growing season.

Tables 3 – 10

Tables 3 – 10 represent the results of the Arkansas Cotton Variety Test. Varieties listed in these tables were tested the previous year in Arkansas.

Tables 11 – 18

Tables 11 – 18 represent the results of the 1st year Arkansas Cotton Variety Test. Varieties listed in these tables have never been entered in the Arkansas Cotton Variety Test.

Tables 19-22

Tables 19 - 22 represent two- and three-year means.

Table 23

Table 23 represents results of the Mississippi County on-farm variety test.

Literature Cited

Bourland, F.M., S.J. Stringer, and J.D. Halter. 1991. Maturity of cotton cultivars in Arkansas as determined by nodes above white bloom. p. 560-563. In Proc. Beltwide Cotton Prod. Res. Conf., San Antonio, TX. 8-12 Jan. 1991. National Cotton Council, Memphis, TN.

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Table 1. Cultural practices for locations in the Arkansas Cotton Variety Test.

Location	Fertilizer amt/a	Planting date	Irrigation dates	Defoliation date	Harvest date
Keiser, irrigated	120-20-40	27-Apr	22-Jun 11-Jul 20-Jul 3-Aug 16-Aug	6-Sep 12-Sep	9-Oct
Keiser, non-irrigated	120-20-40	27-Apr	NA	29-Aug	13-Sep
Clarkedale, irrigated	80-46-60	2-May	27-Jun 3-Jul 12-Jul 18-Jul 31-Jul 10-Aug	7-Sep 10-Sep	2-Oct
Marianna, irrigated	84-30-60	2-May	28-Jun 9-Jul 21-Jul 4-Aug	25-Sep 8-Oct	29-Oct
Marianna, non-irrigated	84-30-60	1-May	NA	17-Sep	Oct 1 & 3
Rohwer, irrigated ¹	108-92-120 0.8lb Boron	11-Jun	2-Jul 25-Jul 7-Aug 25-Aug	22-Oct 29-Oct	7-Nov

¹ Rohwer location test was destroyed by a hail storm on May 27 and re-planted on June 11.

Table 2. Weather summary for the 2001 growing season in north, central, and south Arkansas.

Month	Keiser			Marianna			Rohwer		
	2001 DD60's	Historical avg. ¹ DD60's	Rain (2001) in.	2001 DD60's	Historical avg. DD60's	Rain (2001) in.	2001 DD60's	Historical avg. DD60's	Rain (2001) in.
May	382	326	4.9	385	326	4.0	412	635	7.0
June	500	549	2.3	504	549	3.5	531	564	2.2
July	682	659	1.6	684	659	2.2	699	672	2.2
August	669	579	0.7	652	579	0.6	650	621	3.8
September	340	366	1.9	373	366	1.6	372	532	1.8
Total	2572	2479	11.5	2597	2479	11.9	2663	3024	16.8

¹ DD60 accumulation based on historical weather data for Keiser, Marianna, and Rohwer; 1960-1998.

Table 3. Results of the 2001 Arkansas Cotton Variety Test with irrigation on a Tunica silty clay soil at Keiser.¹

Variety	Lint		Leaf		Plant		Days to		Fiber properties		Elo	Mic	r						
	yield	frac.	r	pub.	ht	r	cutout	Len	r	Unif				Str	r				
	lb/a	%		rating	cm		r	in.	%	g/tex	%	r	r						
ST 4691B	1560	40.5	3	6.1	4	112	5	99.0	2	1.14	16	83.7	27	27.9	28	8.4	28	4.3	19
FiberMax FM 958	1474	40.9	1	3.1	17	106	14	95.2	22	1.16	7	83.5	29	30.4	15	7.7	31	4.7	4
Sure-Grow 105	1429	38.7	11	2.6	19	103	23	94.5	28	1.16	8	84.5	13	30.3	16	9.0	13	4.5	8
FiberMax FM 966	1407	38.8	10	2.4	22	101	27	96.3	13	1.17	3	85.0	6	33.6	1	8.0	30	4.5	13
GC 106	1393	38.9	9	6.3	2	110	9	95.6	20	1.14	15	84.3	20	28.6	26	9.2	5	4.0	30
SG 215 BG/RR	1376	38.4	12	1.4	31	106	15	95.9	16	1.07	31	84.5	13	28.7	25	9.3	2	4.5	13
ARK 8712	1356	38.1	14	2.1	25	104	18	94.1	30	1.21	1	86.1	1	29.7	19	9.0	8	4.5	8
BXN 47	1343	40.9	2	5.6	8	111	8	97.2	6	1.14	16	84.6	11	28.3	27	9.0	13	4.6	6
ST 4892BR	1331	36.9	22	6.4	1	112	5	96.8	10	1.12	22	85.0	5	32.2	2	9.1	6	4.5	8
Sure-Grow 747	1308	38.9	8	2.4	22	109	10	96.6	11	1.13	18	84.2	22	29.5	20	9.3	2	4.6	7
DES H16-24-19	1301	37.5	17	5.4	10	98	29	98.0	5	1.17	6	84.4	18	30.9	12	9.0	8	4.1	24
Sure-Grow 521R	1299	37.6	16	3.0	18	112	5	95.4	21	1.12	23	84.5	13	29.3	21	9.0	8	4.2	23
DES H16-14-20	1276	37.2	19	5.0	11	113	4	96.1	14	1.16	8	84.3	20	30.9	11	8.9	19	4.0	28
DES H16-14-09	1276	37.2	19	4.7	12	103	23	94.9	26	1.08	30	84.8	8	31.5	7	8.6	26	4.8	2
GC 108	1232	36.8	24	4.5	13	104	21	95.2	23	1.17	3	85.0	4	30.8	14	9.0	13	4.1	24
Miscot 8839	1225	32.9	31	2.1	26	121	1	98.5	3	1.17	3	84.6	11	29.9	18	8.9	19	4.3	20
ST 4793R	1222	40.2	4	6.3	3	117	2	96.9	9	1.11	24	84.9	7	32.1	3	9.0	8	4.5	8
Miscot 8806	1221	38.2	13	4.2	15	106	13	95.7	18	1.11	25	84.8	9	32.0	4	9.0	8	4.5	13
PhytoGen PSC 355	1214	40.0	5	5.7	6	105	17	95.9	17	1.13	20	84.7	10	31.8	5	9.7	1	4.8	2
Sure-Grow 501BR	1189	37.4	18	1.7	29	103	22	95.0	25	1.09	28	85.1	3	31.6	6	9.2	4	4.5	8
Garst/Agripro 4600RR	1188	37.2	21	4.3	14	102	26	95.6	19	1.11	25	83.1	31	29.0	23	8.8	23	4.2	21
DP 20 B	1183	35.4	25	2.2	24	98	30	96.0	15	1.15	12	83.8	25	26.9	30	8.8	21	4.1	24
PM 1218 BG/RR	1182	37.9	15	2.6	19	104	20	93.3	31	1.09	28	83.6	28	29.0	22	8.8	21	4.7	5
DP 451 B/RR	1168	34.3	28	1.9	28	100	28	94.7	27	1.16	8	84.1	23	28.9	24	8.6	25	4.4	18
BXN 49B	1165	33.9	29	5.7	7	105	16	96.9	8	1.18	2	84.5	13	27.9	28	8.8	23	4.0	28
DES 810	1141	35.0	27	5.6	8	104	18	97.2	6	1.10	27	84.5	17	31.2	9	9.1	6	4.4	17
PM 1199 RR	1138	39.2	7	3.5	16	102	25	94.4	29	1.13	20	85.9	2	31.3	8	9.0	13	4.8	1
Garst/Agripro 1500RR	1137	36.9	23	1.6	30	107	12	96.3	12	1.15	12	83.7	26	30.9	12	8.6	27	3.8	31
DP 436 RR	1122	35.3	26	2.0	27	89	31	95.0	24	1.15	11	84.3	19	26.6	31	9.0	13	4.5	16
ST X9905	1101	39.5	6	6.0	5	108	11	98.3	4	1.15	12	83.4	30	30.0	17	8.4	29	4.2	21
ST 580	1075	33.1	30	2.6	19	115	3	102.0	1	1.13	18	84.0	24	31.0	10	9.0	13	4.1	27
LSD 0.10	154	4.0		0.8		ns		2.9		0.04		1.2		2.1		0.5		0.3	
Mean	1259	37.5		3.8		106		96.2		1.14		84.4		30.1		8.9		4.4	
C.V. (%)	10.4	5.8		17.4		10.8		2.6		1.9		0.8		4.0		3.2		3.8	
R-squared x 100	63.2	68.0		90.1		50.2		38.6		81.9		65.7		80.2		77.9		83.7	

¹ Planted April 27

Table 5. Results of the 2001 Cotton Variety Test with irrigation on a Dundee silt loam soil at Clarkdale.¹

Variety	Lint		Plant		Len		Unif		Fiber properties		Elo		Mic	
	yield	fract.	ht	r	in.	r	%	r	g/tex	r	%	r	r	r
	lb/a	%	cm											
Sure-Grow 747	1242	1	140	11	22	18	84.9	18	28.0	26	9.0	6	4.3	10
Sure-Grow 105	1138	2	135	19	25	23	84.9	20	30.8	11	9.0	6	4.6	2
Miscot 8806	1101	3	132	21	28	18	85.0	15	29.8	19	9.0	6	4.6	3
SG 215 BG/RR	1096	4	150	13	12	29	85.3	8	26.9	30	9.3	1	4.2	12
ARK 8712	1092	5	134	25	26	3	85.2	11	31.6	5	8.9	14	4.2	12
FiberMax FM 958	1092	6	139	1	24	3	85.7	3	31.8	3	7.9	30	4.1	15
ST 4691B	1058	7	155	2	5	3	85.9	1	30.0	17	8.6	22	3.9	26
DP 20 B	1051	8	145	7	17	11	85.1	12	27.6	27	9.0	6	3.7	29
GC 108	1045	9	153	8	7	11	84.5	27	29.1	23	8.7	17	4.0	17
Sure-Grow 501BR	1039	10	149	23	13	18	84.9	18	30.3	14	9.0	4	4.4	4
Miscot 8839	1027	11	157	27	2	2	85.6	5	28.5	24	8.6	21	4.4	4
ST 4892BR	1023	12	152	4	9	25	85.1	13	30.0	16	8.8	15	3.9	24
GC 106	1023	13	130	15	30	25	84.9	20	29.5	21	9.0	4	4.0	17
Sure-Grow 521R	1020	14	141	14	20	21	85.6	6	29.2	22	9.0	6	4.0	22
BXN 47	1019	15	163	12	1	17	84.2	29	30.4	13	8.5	25	3.9	26
DES H16-14-20	1008	16	145	6	16	13	84.7	25	30.9	10	9.2	2	4.3	10
DES H16-14-09	1008	17	145	17	18	27	84.5	27	31.5	7	8.9	11	4.4	8
BXN 49B	996	18	147	18	15	13	84.8	23	30.1	15	8.6	22	3.6	30
DES H16-24-19	994	19	151	10	10	9	84.8	23	31.7	4	8.6	22	3.9	23
DP 436 RR	991	20	132	31	27	7	84.6	26	26.4	31	8.8	15	3.9	24
DP 451 B/RR	987	21	132	30	29	7	85.9	1	27.3	29	8.4	28	4.1	15
PM 1199 RR	973	22	123	3	31	27	85.7	4	32.5	2	8.9	13	4.7	1
Garst/Agripro 1500RR	960	23	153	26	7	6	84.8	22	31.1	9	8.3	29	3.5	31
PhytoGen PSC 355	960	24	142	24	19	15	85.2	10	29.7	20	9.1	3	4.4	8
FiberMax FM 966	952	25	141	22	20	9	85.3	8	33.9	1	7.8	31	4.0	20
PM 1218 BG/RR	944	26	140	16	23	30	83.6	31	27.6	27	8.5	25	4.4	4
DES 810	928	27	153	28	6	23	85.1	13	31.6	6	8.7	17	4.0	17
ST 4793R	918	28	155	5	4	21	85.0	17	29.9	18	8.7	17	3.9	26
ST 580	888	29	151	29	10	15	85.0	15	30.6	12	8.9	11	4.2	14
ST X9905	888	30	156	9	3	1	85.4	7	31.4	8	8.5	25	4.0	20
Garst/Agripro 4600RR	884	31	149	20	13	30	84.0	30	28.1	25	8.7	20	4.4	4
LSD 0.10	136		4	2.1	0.04		ns		1.8		0.4		0.4	
Mean	1011		145	37.2	1.18		85.0		29.9		8.7		4.1	
C.V. (%)	11.4		7.1	3.3	1.9		1.0		3.6		2.4		5.0	
R-squared x 100	41.9		54.3	70.4	82.4		41.1		84.7		83.2		80.4	

¹ Planted May 2

Table 4. Results of the 2001 Cotton Variety Test without irrigation on a Tunica silty clay soil at Keiser.¹

Variety	Lint			Plant			Fiber properties								
	yield lb	r	frac %	r	ht cm	r	Len in.	r	Unif %	r	Str g/tex	r	Elo %	r	Mic r
SG 215 BG/RR	1257	1	42.0	6	79	4	1.05	24	83.0	25	27.9	30	9.0	5	5.0
ST 4691B	1234	2	42.3	5	78	5	1.10	9	83.1	22	29.0	24	8.3	27	4.5
Sure-Grow 501BR	1193	3	40.7	14	80	2	1.04	28	82.1	29	30.3	15	9.0	10	4.9
GC 108	1166	4	41.3	9	81	1	1.11	5	84.0	10	31.3	5	9.1	3	4.4
ST 4892BR	1142	5	43.2	2	71	15	1.05	24	83.1	22	30.5	14	8.8	19	4.7
GC 106	1116	6	40.4	21	72	14	1.14	1	84.3	2	30.8	10	8.8	20	4.3
Sure-Grow 747	1115	7	42.9	3	73	12	1.07	19	83.5	18	28.9	25	9.3	2	4.8
Sure-Grow 105	1099	8	40.5	19	66	24	1.11	5	83.8	12	30.0	20	9.0	5	4.8
ST X9905	1093	9	40.7	15	69	20	1.08	17	83.4	20	30.6	13	8.1	29	4.8
FiberMax FM 958	1083	10	41.0	11	71	15	1.13	3	84.2	4	30.9	9	7.7	31	4.8
Miscot 8839	1037	11	40.1	22	74	8	1.10	8	83.5	18	28.3	27	8.3	28	4.6
DP 451 B/RR	1025	12	38.3	29	65	25	1.08	17	84.0	6	29.3	21	8.5	24	4.8
Garst/Agripro 1500RR	1011	13	40.0	23	76	7	1.07	20	83.0	24	30.6	12	9.0	10	4.6
BXN 49B	982	14	41.1	10	74	8	1.12	4	84.0	6	30.1	19	8.4	25	4.1
Sure-Grow 521R	981	15	39.5	26	68	21	1.06	23	83.6	17	29.1	22	9.0	5	4.5
DES H16-24-19	976	16	39.5	25	61	30	1.09	12	83.7	16	31.0	8	9.0	5	4.6
BXN 47	966	17	40.7	15	78	6	1.07	20	82.7	27	28.3	27	8.1	29	4.4
PhytoGen PSC 355	946	18	40.6	18	71	17	1.07	20	84.7	1	32.4	2	9.7	1	4.9
ST 580	940	19	40.6	17	71	17	1.09	12	83.4	21	33.0	1	9.0	10	4.4
ARK 8712	926	20	39.0	27	74	8	1.14	2	84.3	3	30.2	17	8.9	17	4.8
DP 20 B	923	21	40.4	20	68	21	1.08	15	83.7	14	27.2	31	9.0	10	4.6
Miscot 8806	922	22	39.7	24	63	27	1.08	15	84.0	6	31.3	5	9.0	5	4.3
PM 1218 BG/RR	904	23	41.7	7	63	28	1.05	24	82.7	27	28.0	29	9.0	10	5.1
ST 4793R	902	24	42.8	4	64	26	1.04	28	83.8	12	30.8	10	9.0	10	4.9
DES H16-14-20	893	25	41.0	12	80	2	1.09	10	83.8	11	32.3	3	9.1	4	4.7
PM 1199 RR	893	26	41.5	8	62	29	1.05	24	83.7	14	29.1	22	8.6	22	4.8
Garst/Agripro 4600RR	880	27	38.4	28	70	19	0.98	31	82.0	30	30.3	16	8.9	17	4.4
DES H16-14-09	865	28	43.6	1	73	12	1.09	12	83.0	25	31.7	4	8.7	21	5.0
FiberMax FM 966	845	29	40.9	13	56	31	1.09	10	84.2	4	31.2	7	8.4	26	4.8
DES 810	829	30	37.6	30	74	8	1.04	30	81.9	31	30.2	18	8.6	23	4.5
DP 436 RR	805	31	33.7	31	67	23	1.11	7	84.0	6	28.7	26	9.0	10	4.6
LSD 0.10	194		3.0		ns		0.03		ns		2.4		0.6		ns
Mean	998		40.5		71		1.08		83.5		30.1		8.8		4.6
C.V. (%)	16.5		4.4		10.4		1.7		1.0		4.6		3.6		6.5
R-squared x 100	48.2		70.4		61.0		87.8		60.8		69.1		78.2		57.4

¹ Planted April 27

Table 6. 2001 Arkansas Cotton Variety Test results - means across northern locations.

Variety	Lint		Plant		Len	Unif	Fiber properties		Mic	r					
	yield	frac.	ht.	cm			in.	%			g/tex	Str	Elo	r	
ST 4691B	1284	40.70	1	122	3	1.15	9	84.20	20	29.00	24	8.40	28	4.20	23
SG 215 BG/RR	1243	39.30	10	118	10	1.08	29	84.20	19	27.80	29	9.20	2	4.50	7
Sure-Grow 105	1222	38.80	17	108	26	1.14	16	84.40	14	30.30	18	9.00	8	4.60	5
Sure-Grow 747	1222	39.80	4	114	15	1.12	22	84.20	22	28.80	26	9.20	3	4.50	7
FiberMax FM 958	1216	40.40	3	112	17	1.17	2	84.50	12	31.00	7	7.80	31	4.50	9
GC 106	1177	38.90	13	110	18	1.14	13	84.50	11	29.60	19	9.00	8	4.10	29
ST 4892BR	1165	39.50	7	120	7	1.11	23	84.40	14	30.90	12	8.90	15	4.40	16
GC 108	1148	38.80	16	119	9	1.16	5	84.50	10	30.40	17	8.90	11	4.20	26
Sure-Grow 501BR	1140	38.30	18	117	12	1.10	27	84.00	26	30.70	14	9.10	4	4.60	6
ARK 8712	1125	37.90	23	110	22	1.13	19	85.20	1	30.50	16	8.90	11	4.50	10
BXN 47	1109	39.70	6	125	2	1.13	19	83.80	28	29.00	23	8.50	26	4.30	22
Sure-Grow 521R	1100	38.20	21	115	14	1.12	21	84.70	5	29.20	21	9.00	6	4.10	27
Miscot 8839	1096	36.40	27	126	1	1.17	3	84.50	9	28.90	25	8.60	25	4.40	12
DES H16-24-19	1090	38.30	19	112	27	1.15	10	84.30	17	31.20	6	8.90	17	4.20	23
Miscot 8806	1081	38.20	20	108	24	1.13	18	84.70	6	31.00	9	9.00	6	4.50	11
FiberMax FM 966	1068	38.80	15	108	29	1.16	7	84.80	4	32.90	1	8.10	30	4.40	15
DP 451 B/RR	1060	35.50	30	106	28	1.15	11	84.70	7	28.50	27	8.50	27	4.40	14
DES H16-14-20	1059	38.90	14	119	4	1.15	12	84.30	18	31.40	4	9.00	5	4.30	18
DP 20 B	1052	38.00	22	111	25	1.14	15	84.20	21	27.20	31	8.90	13	4.10	28
DES H16-14-09	1049	39.40	8	113	20	1.10	25	84.10	24	31.50	2	8.70	22	4.70	3
BXN 49B	1048	37.40	26	116	16	1.17	4	84.40	13	29.40	20	8.60	24	3.90	31
PhytoGen PSC 355	1040	39.10	11	113	18	1.13	19	84.90	3	31.30	5	9.50	1	4.70	4
Garst/Agripro 1500RR	1036	37.80	24	119	8	1.14	13	83.80	27	30.90	13	8.60	23	4.00	30
ST X9905	1027	39.30	9	119	11	1.15	8	84.10	25	30.60	15	8.30	29	4.30	19
ST 4793R	1014	40.50	2	121	5	1.10	26	84.50	8	30.90	10	8.90	16	4.40	12
PM 1218 BG/RR	1010	39.00	12	110	23	1.08	30	83.20	30	28.30	28	8.80	19	4.80	1
PM 1199 RR	1001	39.80	5	103	30	1.11	23	85.10	2	30.90	10	8.80	18	4.70	2
Garst/Agripro 4600RR	984	37.50	25	114	21	1.07	31	83.00	31	29.10	22	8.80	21	4.30	17
DP 436 RR	973	34.30	31	102	31	1.16	6	84.30	16	27.20	30	8.90	13	4.30	19
ST 580	968	36.30	28	120	5	1.13	17	84.10	23	31.50	3	8.90	10	4.20	23
DES 810	966	36.00	29	118	13	1.10	28	83.80	29	31.00	8	8.80	20	4.30	21
LSD 0.10	93	1.70	8	8	0.02	0.02	0.80	0.80	1.20	0.30	0.20	0.30	0.20	0.20	0.20
Keiser, irrigated	1259	37.50	106	106	1.14	1.14	84.40	84.40	30.10	8.90	4.40	8.90	4.40	4.40	4.40
Keiser, non-irrigated	998	40.50	70	70	1.08	1.08	83.50	83.50	30.10	8.90	4.60	8.90	4.60	4.60	4.60
Clarkdale, irrigated	1011	37.20	145	145	1.18	1.18	85.00	85.00	29.90	8.70	4.10	8.70	4.10	4.10	4.10
Mean	1098	38.40	114	114	1.13	1.13	84.30	84.30	30.00	8.80	4.40	8.80	4.40	4.40	4.40
LSD 0.10	98	1.40	9	9	0.01	0.01	0.17	0.17	1.00	0.20	0.10	0.20	0.10	0.10	0.10
C.V. (%)	12.7	4.60	9.10	9.10	1.85	1.85	0.93	0.93	4.10	3.10	5.30	3.10	5.30	5.30	5.30
R-squared x 100	68.2	78.60	92.10	92.10	93.30	93.30	72.00	72.00	78.70	79.70	82.40	79.70	82.40	82.40	82.40
Prob. (variety x location)	0.09	0.42	0.46	0.46	0.20	0.20	0.69	0.69	0.11	0.56	0.30	0.56	0.30	0.30	0.30

Table 7. Results of the 2001 Arkansas Cotton Variety Test with irrigation on a Calloway silt loam soil at Marianna.¹

Variety	Lint		Leaf		Plant		Days to		Len		Unif		Fiber properties		Elo		Mic	
	yield	frac.	pub.	frac.	ht	cutout	in.	%	g/tex	Str	%	Str	g/tex	Str	g/tex	Str	g/tex	
DES H16 14-09	1188	1	40.3	10	4.3	12	148	26	97.5	27	32	82.9	26	31.2	3	9.0	8	4.8
DES H16 24-19	1186	2	38.2	27	5.6	6	145	30	99.8	19	5	83.7	9	29.9	10	8.9	11	4.6
PhytoGen PSC 355	1156	3	40.6	7	5.4	8	149	25	99.0	24	16	84.0	4	28.4	23	9.1	1	4.8
Fibermax FM 958	1129	4	40.8	4	3.5	18	135	32	99.4	21	3	83.7	9	29.9	10	8.2	32	4.6
ST 4892BR	1112	5	40.5	8	6.4	3	162	8	103.0	9	23	83.0	24	29.8	12	9.1	3	4.7
ST X9905	1111	6	41.0	3	5.5	7	158	18	101.0	16	5	83.3	15	31.0	4	8.4	29	4.4
Miscot 8806	1106	7	39.2	18	4.0	13	146	28	97.4	28	25	82.3	33	30.8	5	8.8	17	4.8
ST 4691B	1103	8	40.5	9	6.5	2	168	3	105.0	1	17	83.2	18	28.6	20	8.9	12	4.6
Sure-Grow 105	1091	9	37.0	30	2.8	25	141	31	94.6	33	5	84.3	2	30.4	6	8.9	10	4.5
BXN 47	1068	10	41.8	1	5.0	9	161	10	101.0	14	25	82.5	32	28.2	25	8.4	29	4.7
DES 810	1066	11	37.1	29	4.6	11	156	22	101.0	15	21	83.4	14	29.8	12	8.9	12	4.6
BXN 49B	1055	12	39.2	17	6.3	4	160	13	102.0	10	14	83.2	19	27.8	27	8.6	25	4.4
PM 1218 BG/RR	1026	13	39.8	12	3.6	16	156	20	97.2	30	29	82.5	31	28.5	21	8.7	21	4.9
DES H16 14-20	1015	14	38.9	21	5.9	5	159	15	101.0	13	18	83.1	22	30.2	8	9.0	4	4.5
DP 20 B	983	15	39.1	19	3.2	20	150	24	98.7	25	11	83.1	23	26.2	32	8.8	18	4.3
Sure-Grow 521R	959	16	39.7	13	2.8	24	153	23	98.4	26	27	83.6	12	28.3	24	9.0	4	4.6
PM 1199 RR	951	17	41.2	2	4.6	10	132	33	96.4	31	33	82.6	30	31.6	2	8.5	27	4.9
ST 4793R	942	18	40.8	5	6.5	1	159	14	100.0	17	24	83.1	20	29.7	14	8.8	18	4.7
Fibermax FM 966	935	19	40.7	6	3.2	21	148	26	101.0	12	10	83.7	9	32.3	1	7.9	33	4.3
Miscot 8839	928	20	38.8	24	2.0	31	164	6	100.0	18	12	84.3	1	29.1	19	8.9	12	4.6
SG 215 BG/RR	928	20	39.4	16	1.6	32	158	18	99.1	23	30	83.2	17	26.9	31	8.9	15	4.7
Sure-Grow 747	926	22	40.0	11	3.4	19	163	7	103.0	8	12	83.7	7	26.9	29	9.0	4	4.5
Sure-Grow 501BR	904	23	38.5	25	2.1	28	161	9	97.4	28	30	83.1	20	29.5	18	8.9	15	4.6
DP 436 RR	883	24	35.2	32	2.4	27	146	29	96.1	32	14	83.4	13	26.0	33	8.7	20	4.3
ST 580	868	25	38.9	21	2.9	23	159	16	104.0	3	18	82.7	28	28.5	21	9.0	4	4.7
ARK 8712	864	26	38.3	26	3.0	22	161	10	99.1	22	3	84.0	6	30.0	9	9.0	8	4.8
Deltapine 565	859	27	38.9	21	3.7	15	168	2	101.0	11	2	84.1	3	29.6	17	8.6	23	4.5
DP 451 B/RR	819	28	34.0	33	2.5	26	161	10	99.6	20	5	83.7	7	26.9	29	8.6	25	4.5
DeltaPEARL	799	29	39.7	13	2.0	29	165	5	104.0	5	1	84.0	4	29.7	15	8.2	31	4.6
Sure-Grow 821	761	30	39.1	20	1.4	33	156	20	104.0	4	20	83.3	16	29.6	16	9.1	1	4.8
Garsi/Agripro 4600RR	727	31	39.5	15	4.0	14	158	17	103.0	7	28	83.0	25	27.9	26	8.7	21	4.7
NuCOTN 33 B	720	32	35.6	31	3.6	17	169	1	105.0	2	10	82.9	26	27.8	28	8.6	23	4.3
Garsi/Agripro 1500RR	686	33	37.3	28	2.0	30	166	4	103.0	6	9	82.7	29	30.3	7	8.5	28	4.0
LSD 0.10	127		2.0		0.7		11.8		4.1			ns		1.7		0.3		0.3
Mean	965		39.1		3.8		156		100.3			83.3		29.1		8.7		4.6
C.V. (%)	11.2		3.1		15.1		6.4		3.5			0.7		3.4		2.0		3.8
R-squared x 100	71.5		81.5		90.7		67.7		60.2			60.8		82.7		84.3		72.2

¹ Planted May 2.

Table 8. Results of the 2001 Arkansas Cotton Variety Test without irrigation on a Calloway silt loam soil at Marianna.¹

Variety	Lint		Days to		Plant		Len		Unif		Str		Elo		Mic	
	yield	frac.	cutout	ht	r	in.	r	%	r	g/tex	r	%	r			
SG 215 BG/RR	845	43.4	89.2	111	15	1.02	13	26	81.5	29	27.2	30	8.9	6	4.9	17
Miscot 8806	818	38.9	84.9	99	30	1.08	24	7	84.3	1	29.8	16	8.8	10	5.2	5
BXN 47	816	45.2	85.0	94	29	1.02	28	28	81.8	25	27.8	26	8.4	22	5.3	3
Fibermax FM 958	812	40.5	86.6	93	25	1.11	29	2	84.0	3	32.7	3	8.1	30	4.9	17
PhytoGen PSC 355	799	39.7	87.1	104	23	1.05	18	19	83.5	7	29.4	20	9.3	3	5.4	2
ST 4691B	790	42.5	90.5	115	7	1.06	7	13	82.5	16	27.3	29	8.4	25	4.8	22
Sure-Grow 747	779	41.7	89.5	112	12	1.04	12	21	82.9	11	27.9	25	8.8	10	5.0	15
ST 4892BR	770	41.7	91.1	116	5	1.04	5	23	82.8	14	29.8	15	8.4	21	5.0	14
DES H16 24-19	770	37.5	87.5	100	22	1.05	23	19	81.6	28	30.0	11	8.8	10	5.2	7
Sure-Grow 501BR	769	42.5	88.3	110	19	1.01	14	30	82.3	20	30.9	7	9.1	5	5.2	7
ST X9905	763	40.3	91.1	115	4	1.08	8	7	82.9	11	30.1	10	8.2	29	4.8	22
Miscot 8839	761	40.8	88.9	104	16	1.08	19	7	83.5	8	27.6	28	8.3	26	5.2	6
DP 436 RR	746	38.0	85.4	89	28	1.08	31	4	83.4	9	27.0	31	8.8	9	5.0	15
NuCOTN 33 B	736	37.0	92.9	126	1	1.08	1	4	82.9	13	28.7	23	8.7	14	4.5	31
Sure-Grow 105	729	40.3	82.1	90	33	1.04	30	21	82.0	22	30.2	9	8.9	8	5.1	10
DES 810	715	38.0	88.4	113	18	1.02	10	26	81.8	25	29.8	16	8.7	15	5.1	10
Sure-Grow 821	708	39.0	91.3	112	3	1.08	11	4	82.4	19	29.8	14	9.4	2	4.5	31
ARK 8712	697	37.4	90.5	117	8	1.13	3	1	84.1	2	31.1	6	8.6	19	4.4	33
PM 1218 BG/RR	690	39.7	89.9	121	11	1.04	2	23	83.8	4	28.3	24	8.3	26	5.1	10
ST 580	690	38.2	91.4	114	2	1.05	9	17	82.7	15	32.2	4	8.7	15	4.8	27
DES H16 14-09	679	40.8	83.1	95	32	1.01	27	29	82.0	22	31.9	5	8.8	10	5.4	1
DP 451 B/RR	668	37.5	90.2	108	9	1.07	15	11	82.5	17	26.6	32	8.0	31	4.9	21
Garst/AgriPro 1500RR	658	40.4	88.7	104	17	1.05	19	17	81.5	31	29.7	18	8.4	22	4.8	24
Fibermax FM 966	652	39.2	86.4	101	27	1.06	22	14	83.6	6	34.8	1	7.9	33	4.9	17
DP 20 B	639	39.6	88.2	104	20	1.06	17	14	81.3	32	26.4	33	8.7	17	4.5	30
DES H16 14-20	637	38.9	90.6	115	6	1.06	6	14	82.4	18	33.4	2	9.5	1	4.8	24
Garst/AgriPro 4600RR	618	39.3	90.0	106	10	1.00	16	31	81.5	30	28.9	22	8.5	20	5.1	13
Sure-Grow 521R	613	40.9	84.7	87	31	0.99	33	33	82.1	21	29.7	18	9.3	3	5.2	7
BXN 49B	605	41.1	86.4	89	26	1.04	32	23	81.9	24	27.8	27	8.4	24	4.6	29
Deltapine 565	603	35.7	89.2	116	14	1.07	4	11	83.2	10	30.0	13	8.6	18	4.8	27
ST 4793R	591	42.3	86.6	96	24	1.00	26	32	81.0	33	30.0	12	8.9	6	4.9	17
DeltaPEARL	561	41.6	87.9	96	21	1.10	25	3	81.7	27	29.2	21	8.0	31	5.3	4
PM 1199 RR	501	39.8	89.5	101	12	1.08	21	7	83.7	5	30.7	8	8.3	26	4.8	24
LSD 0.10	125	2.9	ns	18		0.05			1.4		1.2		0.4		0.5	
Mean	704	40.0	88.3	105		1.05			82.6		29.6		8.6		4.9	
C.V. (%)	15.1	4.3	4.9	14.3		2.6			1.0		2.4		2.9		5.5	
R-squared x 100	46.7	74.2	61.4	69.4		76.0			70.3		94.2		82.9		66.8	

¹ Planted May 1.

Table 9. Results of the 2001 Arkansas Cotton Variety Test with irrigation on a Desha silt loam soil at Rohwer.¹

Variety	Lint		Lint frac.		Len	Unif		Fiber properties		Elo	Mic			
	yield	lb/a	r	%		r	%	r	g/tex			r		
ST X9905	1377	1	38.9	2	1.18	13	84.9	23	29.6	12	7.9	32	4.0	30
PM 1218 BG/RR	1321	2	38.1	4	1.14	30	85.0	22	28.5	18	8.9	5	4.9	1
Miscot 8806	1274	3	35.6	23	1.16	25	84.6	28	31.2	4	8.4	25	4.1	25
Miscot 8839	1264	4	35.3	26	1.19	6	86.1	12	27.2	30	8.8	9	4.4	15
PhytoGen PSC 355	1254	5	37.5	8	1.17	15	86.4	9	28.7	17	9.1	2	4.6	8
ST 4793R	1174	6	37.8	6	1.15	27	84.7	26	28.2	22	8.7	15	4.6	8
ARK 8712	1172	7	35.7	22	1.19	6	86.9	2	30.5	8	8.9	5	4.5	12
Fibermax FM 958	1167	8	39.2	1	1.21	3	86.7	3	31.2	3	8.3	30	4.6	8
Sure-Grow 747	1160	9	38.2	3	1.17	15	86.6	4	26.7	32	9.1	2	4.8	2
DES H16 14-09	1160	10	36.7	17	1.16	23	85.4	17	29.7	11	8.6	20	4.7	4
BXN 49 B	1150	11	36.8	16	1.22	2	86.5	6	28.4	21	8.5	24	4.2	20
ST 4892BR	1148	12	37.1	12	1.15	28	84.8	25	28.4	19	8.6	17	4.6	8
ST 4691B	1139	13	37.3	10	1.19	6	86.5	6	27.2	31	8.4	29	4.4	15
Fibermax FM 966	1134	14	36.7	17	1.19	6	86.0	13	34.9	1	8.0	31	4.0	30
BXN 47	1125	15	37.1	12	1.17	18	85.9	15	27.6	26	8.4	27	4.6	5
DP 451 B/RR	1117	16	33.1	32	1.17	15	86.2	11	28.1	23	8.5	22	4.1	25
DES H16 14-20	1115	17	35.5	25	1.17	18	84.9	24	31.8	2	9.0	4	4.1	25
DES 810	1083	18	33.7	31	1.17	18	84.3	32	30.4	9	8.8	9	4.0	30
DP 436 RR	1072	19	32.7	33	1.18	11	85.3	19	27.3	29	8.8	9	4.2	20
DES H16 24-19	1063	20	34.6	28	1.18	11	85.2	21	30.1	10	8.6	20	4.3	19
SG 215 BG/RR	1058	21	34.4	29	1.14	30	84.4	31	26.1	33	8.6	17	4.2	20
Deltapine 565	1040	22	37.1	12	1.20	4	86.3	10	29.3	15	8.4	28	4.5	13
Sure-Grow 501BR	1025	23	37.4	9	1.14	29	85.8	16	29.6	13	8.8	9	4.5	14
ST 580	1016	24	35.0	27	1.16	23	85.3	19	27.9	24	8.9	5	4.2	20
Garst/AgriPro 4600RR	998	25	36.7	17	1.10	33	84.0	33	29.1	16	8.8	9	4.6	6
DeltaPEARL	992	26	37.7	7	1.24	1	86.6	5	29.4	14	7.6	33	4.1	25
Sure-Grow 105	987	27	36.3	20	1.19	6	86.5	6	30.9	6	8.5	22	4.4	15
Sure-Grow 821	979	28	37.9	5	1.17	18	85.4	17	27.9	25	9.2	1	4.7	3
Sure-Grow 521R	957	29	35.8	21	1.13	32	84.5	30	27.4	27	8.7	15	4.3	18
DP 20 B	944	30	36.9	15	1.16	25	84.7	26	27.3	28	8.9	8	4.2	20
PM 1199 RR	930	31	37.1	11	1.20	5	87.1	1	31.0	5	8.8	9	4.6	6
Garst/AgriPro 1500RR	773	32	35.6	23	1.17	18	84.6	29	30.6	7	8.4	25	3.9	33
NuCOTN 33 B	692	33	33.8	30	1.18	13	86.0	13	28.4	19	8.6	17	4.1	25
LSD 0.10	210		1.6		0.02		1.0		1.8		0.4		0.3	
Mean	1087		36.3		1.17		85.6		29.1		8.6		4.3	
C.V. (%)	16.5		2.6		1.2		0.7		3.6		2.7		4.6	
R-squared x 100	48.2		88.5		8.9		80.2		85.9		81.4		79.6	

¹ Planted June 11.

Table 10. 2001 Arkansas Cotton Variety Test results - means across southern locations.

Variety	Lint		Lint frac.		Plant		Len		Unif		Str		Elo		Mic	
	yield	r	r	%	r	ht.	r	in.	r	%	r	g/tex	r	%	r	r
ST X9905	1083	1	40.10	5	136	10	1.13	5	83.70	19	30.20	9	8.20	31	4.40	28
PhytoGen PSC 355	1069	2	39.20	12	126	23	1.12	17	84.60	3	28.80	20	9.10	3	4.90	3
Miscot 8806	1066	3	37.90	22	123	27	1.11	21	83.70	16	30.60	6	8.70	18	4.70	12
Fibermax FM 958	1036	4	40.10	3	114	33	1.16	2	84.80	2	31.20	3	8.20	30	4.70	12
PM 1218 BG/RR	1012	5	39.20	13	139	5	1.08	27	83.70	18	28.40	23	8.60	22	5.00	1
ST 4691B	1010	6	40.10	4	141	3	1.12	14	84.00	12	27.70	28	8.50	23	4.60	19
ST 4892BR	1010	7	39.80	7	139	4	1.10	25	83.50	22	29.30	17	8.70	17	4.70	6
DES H16 14-09	1009	8	39.30	11	122	28	1.08	29	83.40	25	30.90	5	8.80	11	4.90	2
DES H16 24-19	1006	9	36.80	29	123	26	1.13	12	83.50	23	30.00	11	8.70	16	4.70	14
BXN 47	1003	10	41.30	1	127	21	1.09	26	83.40	26	27.90	27	8.40	28	4.90	4
Miscot 8839	985	11	38.30	21	134	17	1.13	6	84.60	3	28.00	26	8.60	19	4.70	10
Sure-Grow 747	955	12	39.90	6	137	7	1.12	17	84.40	7	27.20	30	8.90	5	4.70	6
DES 810	955	13	36.30	30	134	15	1.10	24	83.10	28	30.00	11	8.80	11	4.60	22
SG 215 BG/RR	944	14	39.00	15	135	13	1.08	30	83.00	29	26.70	32	8.80	9	4.60	20
BXN 49 B	937	15	39.00	14	125	24	1.13	10	83.80	15	28.00	25	8.50	26	4.40	30
Sure-Grow 105	936	16	37.80	23	116	32	1.13	12	84.20	9	30.50	8	8.80	11	4.70	16
DES H16 14-20	922	17	37.70	25	137	8	1.11	19	83.40	24	31.80	2	9.20	2	4.50	26
ARK 8712	911	18	37.10	28	139	6	1.16	3	85.00	1	30.50	7	8.80	8	4.60	21
Fibermax FM 966	907	19	38.90	16	124	25	1.13	11	84.40	8	34.00	1	7.90	33	4.40	28
ST 4793R	902	20	40.30	2	128	20	1.08	28	82.90	31	29.30	18	8.80	10	4.70	11
DP 436 RR	900	21	35.30	32	118	30	1.13	6	84.00	13	26.80	31	8.80	11	4.50	26
Sure-Grow 501BR	899	22	39.50	9	136	11	1.07	31	83.70	17	30.00	13	8.90	6	4.70	6
DP 451 B/RR	868	23	34.80	33	134	14	1.13	9	84.10	10	27.20	29	8.40	29	4.50	25
ST 580	858	24	37.40	26	136	9	1.11	20	83.60	21	29.50	15	8.90	7	4.50	24
DP 20 B	855	25	38.50	19	127	22	1.11	22	83.00	29	26.60	33	8.80	15	4.30	31
Sure-Grow 521R	843	26	38.80	17	120	29	1.07	32	83.00	26	28.40	22	9.00	4	4.70	15
DeltaPine 565	834	27	37.20	27	142	2	1.15	4	84.50	5	29.60	14	8.50	23	4.60	22
Sure-Grow 821	816	28	38.60	18	134	16	1.12	15	83.70	20	29.10	19	9.20	1	4.60	18
PM 1199 RR	794	29	39.40	10	117	31	1.11	22	84.50	6	31.10	4	8.50	23	4.70	6
DeltaPEARL	784	30	39.60	8	130	19	1.18	1	84.10	11	29.40	16	7.90	32	4.60	17
Garsi/AgriPro 4600RR	781	31	38.50	20	132	18	1.06	33	82.80	33	28.60	21	8.60	19	4.80	5
NuCOTN 33 B	716	32	35.50	31	147	1	1.13	6	83.90	14	28.30	24	8.60	19	4.30	32
Garsi/AgriPro 1500RR	706	33	37.70	24	135	12	1.12	15	82.90	32	30.20	10	8.40	27	4.20	33
LSD 0.10	91.3		1.20		10.6		0.02		0.70		0.90		0.20		0.20	
Marianna, irrigated	965		39.10		156		1.12		83.30		29.10		8.72		4.60	
Marianna, non-irrigated	704		40.00		105		1.05		82.60		29.10		8.61		4.90	
Rohwer, irrigated	1087		36.30		NA		1.17		85.60		29.60		8.60		4.30	
LSD 0.10	59.8		1.90		20.8		0.01		0.20		0.70		0.07		0.20	
Mean	918		38.40		130		1.11		83.80		29.30		8.60		4.60	
C.V. (%)	14.8		3.50		9.8		1.90		0.80		3.20		2.60		4.70	
R-squared x 100	76.00		87.30		88.3		93.80		90.50		88.40		83.20		84.00	
Prob. (variety x location)	<0.01		0.03		0.3		0.03		<0.01		0.01		0.05		0.02	

Table 11. Results of the 2001 Arkansas Cotton Variety Trials for first-year entries with irrigation on a Tunica silty clay soil at Keiser.¹

Variety	Lint		Leaf		Plant		Days to		Len		Unif		Str		Elo		Mic	
	yield	frac.	r	pub.	ht	r	cutout	r	in.	r	%	r	g/tex	r	%	r	r	
FiberMax FM 958B	1458	39.6	13	2.6	23	16	95.8	19	1.19	3	85.0	4	30.7	14	8.0	26	4.4	12
DP 491	1433	39.6	12	3.8	9	3	98.5	9	1.23	1	84.6	7	31.5	9	8.1	22	4.2	19
ASCI EXP0240	1423	39.2	17	2.7	21	8	97.0	20	1.14	23	84.0	19	29.9	20	8.0	26	4.6	8
ARK 9111-57-12	1411	39.4	14	4.9	5	5	95.2	18	1.17	7	85.2	2	29.7	22	9.3	3	4.3	18
Sure-Grow 747- Chk	1401	40.8	6	2.2	28	26	93.7	29	1.17	8	85.7	1	27.6	28	9.0	8	4.7	6
PH98M-2983	1389	41.9	3	3.3	16	6	97.9	2	1.11	28	83.9	23	30.3	17	8.9	16	4.0	28
DPLX 99M03	1385	42.0	2	6.4	1	15	95.3	17	1.16	13	84.3	16	30.6	15	9.0	11	4.4	15
ASCI EXP0263	1384	40.2	8	2.4	24	24	94.1	18	1.15	18	83.8	24	35.1	1	8.5	20	4.4	15
ARK 9108-04-17	1374	38.7	20	2.8	18	7	97.1	13	1.13	25	84.5	12	31.5	9	9.1	7	5.0	3
ARK 9111-57-20	1361	39.3	16	3.5	13	19	95.0	15	1.14	20	84.6	9	29.2	24	9.0	11	4.2	23
FiberMax FM 989BR	1356	37.7	24	2.2	27	30	92.2	27	1.16	10	82.8	28	30.0	19	8.1	22	4.2	24
M623	1355	40.8	5	2.8	19	10	96.6	12	1.14	20	82.9	27	28.0	27	7.9	28	4.5	9
PH98M-3196	1355	40.5	7	3.5	14	13	94.2	13	1.14	19	84.2	17	28.9	25	9.2	5	4.4	12
ARK 9108-23-03	1339	40.1	10	2.6	22	22	96.4	11	1.15	15	84.6	7	30.3	18	9.0	8	5.0	1
DP 555 BG/RR	1334	44.1	1	2.9	17	4	98.3	4	1.16	13	81.9	30	27.2	29	7.6	29	4.1	26
ARK 9101-91-10	1331	38.8	18	3.4	15	25	93.7	27	1.13	24	83.9	20	31.8	5	9.0	11	4.7	7
FiberMax FM 966B	1324	38.5	21	3.6	12	25	96.2	25	1.18	5	83.9	20	33.0	2	8.5	19	4.0	28
ASCI EXP0724	1324	38.8	19	1.5	29	11	96.7	6	1.20	2	84.4	13	29.3	23	7.6	29	4.2	19
DPLX 00S04	1322	39.7	11	4.2	7	106	96.3	11	1.18	6	84.5	10	30.8	13	8.7	18	4.2	24
ST 457	1271	40.1	9	5.2	3	98	94.4	23	1.16	10	84.5	11	28.4	26	9.9	1	4.2	19
ARK 9108-23-05	1260	38.0	22	2.4	26	30	93.4	30	1.09	30	84.0	18	32.6	3	8.9	15	5.0	1
ARK 9101-97-09	1259	36.4	28	5.2	3	100	94.9	20	1.15	15	84.9	5	30.5	16	9.0	8	4.5	11
Miscot 8806-3-2-35	1247	39.3	15	3.9	8	23	93.9	25	1.12	26	83.6	26	31.0	11	8.8	17	4.4	12
DPLX 99X35	1244	41.6	4	2.7	20	107	96.3	12	1.12	26	83.9	20	27.1	30	9.0	11	4.7	4
Miscot 8806-3-2-21	1226	36.9	26	3.8	9	94	92.8	29	1.11	29	85.1	3	29.8	21	9.3	3	4.7	4
M611	1220	37.4	25	1.2	30	122	99.0	1	1.17	8	84.9	6	31.6	7	8.1	22	4.4	15
PhytoGen PSC 355-Chk	1095	35.8	29	5.5	2	98	94.6	21	1.15	15	84.3	14	31.7	6	9.6	2	4.5	10
DES 816	1090	33.3	30	4.9	5	109	96.0	15	1.16	10	83.8	25	32.4	4	9.2	5	4.2	19
M658	1063	36.5	27	3.7	11	109	98.0	8	1.19	3	84.3	15	30.8	12	8.1	22	3.9	30
M651	1046	37.9	23	2.4	25	114	98.7	3	1.14	22	82.6	29	31.6	8	8.4	21	4.1	27
LSD 0.10	137	3.6		0.8		10	2.6		0.04		1.4		2.3		0.4		0.4	
Mean	1303	39.1		3.4		103	95.7		1.15		84.2		30.4		8.7		4.4	
C.V. (%)	9.0	5.4		19.2		8.5	2.3		1.9		1.0		4.4		3.1		5.8	
R-squared x 100	68.4	65.6		82.7		67.7	48.9		76.7		65.6		77.6		90.1		73.1	

¹ Planted April 27

Table 12. Results of the 2001 Arkansas Cotton Variety Test for first-year entries without irrigation on a Tunica silty clay soil at Keiser.¹

Variety	Lint		Plant		Len		Unif		Fiber properties		Mic		
	yield lb/a	frac. %	r	ht cm	r	in.	r	%	r	g/tex	r	elo	
DP 555 BG/RR	1175	45.8	1	84	1	1.10	9	81.7	30	28.6	28	7.6	4.8
DP 491	1142	43.9	4	73	10	1.17	1	82.1	29	29.9	25	7.9	4.6
ARK 9111-57-12	1134	43.0	7	77	5	1.10	9	83.8	7	30.9	19	9.6	4.8
Miscot 8806-3-2-21	1122	41.4	15	69	20	1.06	27	83.4	11	31.7	10	9.3	4.9
DPLX 99X35	1119	45.3	2	75	7	1.06	24	82.8	18	30.2	24	8.8	4.9
PH98M-2983	1111	43.4	5	78	3	1.07	21	82.5	21	29.6	27	9.0	4.7
FiberMax FM 989BR	1108	39.6	29	70	16	1.07	21	82.5	22	31.0	17	8.2	4.4
ST 457	1107	41.0	18	65	27	1.09	12	82.8	17	31.4	13	9.7	4.2
ASCI EXP0240	1091	42.9	8	71	12	1.09	12	82.9	15	30.9	19	8.2	4.6
ARK 9101-91-10	1084	40.3	27	70	16	1.07	21	82.4	24	31.8	9	8.9	4.8
Sure-Grow 747- Chk	1068	44.4	3	67	24	1.09	15	84.0	2	27.3	30	9.0	5.2
FiberMax FM 958B	1063	41.0	19	65	27	1.09	15	83.1	14	31.7	12	7.9	4.5
Miscot 8806-3-2-35	1051	43.1	6	70	16	1.06	24	82.9	16	28.6	29	8.8	5.1
ARK 9111-57-20	1043	42.1	11	77	6	1.08	19	83.3	12	31.7	10	8.7	4.2
Phytogen PSC 355- Chk 1042	1041	41.4	14	66	26	1.08	19	83.9	4	32.3	6	9.8	5
ASCI EXP0724	1041	42.3	10	69	21	1.12	5	83.3	12	30.6	21	7.5	4.7
SPLX 00S04	1030	41.2	17	74	9	1.12	6	83.9	5	31.1	16	8.4	4.6
ASCI EXP0263	1020	41.2	16	62	29	1.13	3	83.7	8	34.3	1	8.6	4.7
ARK 9108-23-03	1006	41.6	13	72	11	1.09	15	83.8	6	30.5	23	8.6	5.2
DES 816	1006	39.6	28	68	23	1.09	15	82.2	26	32.3	6	8.9	7
M623	1003	40.7	24	70	15	1.09	12	82.7	19	30.5	22	7.7	28
M658	998	40.9	22	71	14	1.06	24	82.1	27	31.1	14	8.0	4.2
ARK 9108-04-17	996	42.0	12	70	16	1.06	27	82.5	23	33.7	2	8.9	7
DPLX 99M03	995	42.8	9	71	12	1.06	27	82.3	25	32.4	5	8.8	12
ARK 9101-97-09	981	41.0	19	69	21	1.11	8	84.0	3	33.5	3	8.8	12
FiberMax FM 966B	970	40.8	23	66	25	1.14	2	83.4	10	31.0	17	8.1	23
PH98M-3196	912	40.9	21	82	2	1.11	7	82.7	20	29.9	26	8.8	10
M651	890	38.3	30	78	4	1.10	9	82.1	27	31.1	15	8.0	24
ARK 9108-23-05	880	40.4	25	56	30	1.00	30	83.6	9	32.2	8	8.7	15
M611	875	40.3	26	75	7	1.13	3	84.2	1	33.3	4	8.3	20
LSD 0.10	151	1.4		10.8		0.04		1.2		2.0		0.4	0.5
Mean	1035	41.7		70.7		1.09		83.0		31.2		8.6	4.6
C.V. (%)	12.4	2.0		8.9		2.2		0.8		3.8		2.6	6.3
R-squared x 100	54.0	89.4		74.6		76.7		66.7		77.5		93.2	76.5

¹ Planted April 27

Table 13. Results of the 2001 Arkansas Cotton Variety Test for first-year entries with irrigation on a Dundee silt loam soil at Clarkedale.¹

Variety	Lint		Plant		Fiber properties		Elo %	Mic							
	yield lb/a	frac. %	ht cm	Len in.	Unif %	Str g/tex									
Sure-Grow 747- Chk	1257	40.4	4	137	21	1.13	22	84.8	4	28.5	30	8.9	1	4.5	5
FiberMax FM 966B	1225	38.8	13	133	28	1.11	29	84.6	9	33.3	2	8.5	10	4.5	5
DPLX 99X35	1182	40.9	2	144	13	1.15	12	83.8	19	29.0	28	8.1	21	4.1	23
PH98M-2983	1177	41.8	1	147	7	1.14	20	83.8	17	29.3	26	8.7	4	4.3	11
DPLX 99M03	1137	39.8	9	138	20	1.14	17	83.3	27	31.5	7	8.4	11	4.2	17
ARK 9108-23-05	1128	38.4	16	134	26	1.07	30	83.3	25	30.6	16	8.2	18	4.6	3
PH98M-3196	1125	38.6	14	135	24	1.17	3	84.6	9	29.0	29	8.0	25	3.9	28
ASCI EXP0240	1090	38.9	12	150	6	1.15	12	84.0	16	32.6	6	8.1	22	4.2	17
ARK 9108-23-03	1080	38.2	19	140	16	1.12	25	84.6	7	31.4	9	8.7	4	4.9	1
Miscot 8806-3-2-35	1077	40.4	5	136	23	1.17	7	84.3	12	30.3	20	8.4	11	4.2	17
ARK 9108-04-17	1069	38.4	15	147	8	1.13	22	83.0	28	29.5	24	8.7	6	4.4	7
Miscot 8806-3-2-21	1061	38.0	23	133	29	1.13	22	84.3	15	29.4	25	8.6	9	4.4	7
FiberMax FM 958B	1054	38.4	17	139	18	1.17	3	84.7	5	32.9	4	8.8	3	4.3	16
ARK 9101-91-10	1032	37.2	27	135	25	1.17	3	84.3	12	31.5	7	8.2	20	4.6	4
ASCI EXP0724	1017	38.3	18	151	5	1.12	25	83.6	21	30.6	16	8.1	22	4.9	1
Phytogen PSC 355- Chk	1011	37.5	25	142	15	1.15	12	84.5	11	29.6	23	8.4	14	4.3	14
DES 816	1001	38.1	20	137	22	1.12	28	83.4	24	29.8	22	8.3	15	4.3	14
ARK 9101-97-09	985	39.8	8	134	27	1.15	16	84.8	2	32.7	5	8.3	15	4.4	7
ARK 9111-57-20	981	39.9	7	144	11	1.12	27	83.3	25	29.2	27	8.4	13	4.0	25
FiberMax FM 989BR	977	37.0	28	130	30	1.17	3	83.8	17	30.4	18	7.9	27	3.9	28
ASCI EXP0263	969	38.0	21	140	16	1.14	17	83.5	23	33.8	1	8.1	22	4.2	21
M623	966	39.1	11	146	9	1.18	2	84.3	12	30.7	13	7.7	28	4.3	11
M611	935	37.3	26	162	2	1.16	8	83.7	20	33.1	3	7.6	29	4.0	25
DP 491	918	40.0	6	139	19	1.20	1	84.6	6	30.7	14	8.0	25	4.0	27
M651	918	37.0	29	154	4	1.15	12	82.9	29	31.2	10	8.2	18	4.3	11
DP 555 BG/RR	894	40.8	3	166	1	1.14	17	82.5	30	31.2	11	7.5	30	4.1	23
ST 457	894	38.0	22	144	11	1.16	8	84.9	1	30.9	12	8.9	1	4.2	20
ARK 9111-57-12	838	39.1	10	142	14	1.14	20	84.8	2	30.3	20	8.7	6	4.2	21
DPLX 00S04	812	37.7	24	146	9	1.16	10	84.6	7	30.3	19	8.6	8	4.4	7
M658	690	36.4	30	158	3	1.16	10	83.6	22	30.7	14	8.3	17	3.7	30
LSD 0.10	132	1.5		9.9	ns			1.4		2.1		ns		ns	
Mean	1017	38.7		143		1.15		84.0		30.8		8.3		4.3	
C.V. (%)	11.1	2.3		5.9		3.4		1.0		3.9		5.2		8.4	
R-squared x 100	73.0	82.1		59.9		49.1		62.7		75.3		59.5		52.8	

¹ Planted May 2

Table 14. Results of the 2001 Arkansas Cotton Variety Test for first-year entries - means across northern locations.

Variety	Lint		Plant		Len in.	Unif %	Fiber properties		Elo %	Mic r			
	yield lb/a	frac.	ht cm	r			Str g/tex	r					
Sure-Grow 747- Chk	1242	41.9	4	106	1.13	84.8	1	27.8	30	9.0	5	4.8	4
PH98M-2983	1226	42.4	3	121	1.11	83.4	22	29.7	26	8.8	7	4.3	21
ASCI EXP0240	1201	40.3	10	113	1.13	83.6	17	31.1	13	8.1	24	4.5	11
FiberMax FM 958B	1192	39.7	18	109	1.15	84.3	6	31.8	5	8.2	21	4.4	16
DPLX 99X35	1182	42.6	2	115	1.11	83.5	21	28.8	29	8.6	16	4.6	9
FiberMax FM 966B	1173	39.4	20	104	1.14	84.0	11	32.4	3	8.4	20	4.3	22
DPLX 99M03	1172	41.5	5	110	1.11	83.3	26	31.5	9	8.8	10	4.4	13
DP 491	1165	41.2	6	113	1.19	83.6	19	30.5	17	8.0	27	4.3	24
ARK 9101-91-10	1149	38.8	23	106	1.12	83.5	20	31.7	7	8.7	14	4.7	5
FiberMax FM 989BR	1147	38.1	27	104	1.13	83.0	28	30.5	18	8.1	25	4.1	27
ARK 9108-04-17	1146	39.7	17	114	1.10	83.3	24	31.6	8	8.9	6	4.9	3
ARK 9108-23-03	1142	39.9	13	112	1.12	84.3	4	30.7	16	8.8	9	5.0	1
Miscot 8806-3-2-21	1136	38.8	24	105	1.10	84.2	7	30.3	19	9.0	4	4.7	6
DP 555 BG/RR	1134	43.6	1	129	1.13	82.0	30	29.0	28	7.6	30	4.3	20
PH98M-3196	1130	40.0	12	109	1.14	83.8	12	29.2	27	8.7	12	4.0	29
ARK 9111-57-20	1128	40.4	9	113	1.11	83.7	14	30.0	23	8.7	12	4.1	26
ARK 9111-57-12	1127	40.5	8	117	1.13	84.6	2	30.3	20	9.2	3	4.4	15
ASCI EXP0724	1127	39.8	15	118	1.15	83.8	13	30.1	22	7.7	29	4.6	7
Miscot 8806-3-2-35	1125	40.9	7	107	1.12	83.6	18	30.0	24	8.7	14	4.6	9
ASCI EXP0263	1124	39.8	14	108	1.14	83.7	15	34.4	1	8.4	19	4.4	16
M623	1108	40.2	11	114	1.14	83.3	24	29.7	25	7.8	28	4.4	12
ST 457	1091	39.7	16	110	1.14	84.0	10	30.2	21	9.5	1	4.2	25
ARK 9108-23-05	1089	38.9	22	102	1.05	83.6	16	31.8	5	8.6	16	4.9	2
ARK 9101-97-09	1075	39.1	21	107	1.13	84.6	3	32.2	4	8.7	11	4.4	18
DPLX 00S04	1055	39.6	19	115	1.15	84.3	5	30.7	15	8.6	18	4.4	18
Phytogen PSC 355- Chk	1049	38.2	26	109	1.13	84.2	9	31.2	12	9.3	2	4.6	8
DES 816	1032	37.0	30	112	1.12	83.1	27	31.5	10	8.8	8	4.4	14
M611	1010	38.4	25	129	1.15	84.2	7	32.6	2	8.0	26	4.3	23
M651	951	37.7	29	123	1.13	82.5	29	31.3	11	8.2	22	4.1	28
M658	917	37.9	28	121	1.14	83.3	23	30.9	14	8.1	23	3.9	30
LSD 0.10	81	1.4	6.1	0.03	0.03	0.7	1.2	0.3	0.3	0.3	0.3	0.3	0.3
Keiser, irrigated	1303	39.1	103	1.15	1.15	84.1	1.15	30.4	30.4	8.7	8.7	4.4	4.4
Keiser, non-irrigated	1035	41.7	71	1.09	1.09	83.0	1.09	31.1	31.1	8.6	8.6	4.6	4.6
Clarkedale, irrigated	1017	38.7	143	1.14	1.14	84.0	1.14	30.8	30.8	8.3	8.3	4.3	4.3
Mean	1118	39.9	112	1.13	1.13	83.7	112	30.8	30.8	8.5	8.5	4.4	4.4
LSD 0.10	144	1.0	9.9	0.01	0.01	0.6	0.9	0.9	0.06	0.06	0.1	0.1	0.1
C.V. (%)	10	3.6	7.4	2.6	2.6	0.9	4.1	4.1	3.7	3.7	6.9	6.9	6.9
R-squared x 100	78	83.3	94.7	79.6	79.6	74.5	77.8	77.8	86.0	86.0	73.1	73.1	73.1
Prob.(variety x location)	<0.01	0.4	0.5	0.5	0.5	0.8	0.04	0.04	0.0	0.0	0.5	0.5	0.5

Table 15. Results of the 2001 Arkansas Cotton Variety Test for first-year entries with irrigation on a Calloway silt loam soil at Marianna.¹

Variety	Lint		Leaf		Plant		Days to		Len		Unif		Str		Elo		Mic	
	yield	frac.	r	pub.	ht	cutout	r	in.	r	%	g/tex	r	%	r	r	r	r	
PH98M-2983	1285	42.7	1	3.8	17	8	22	1.10	30	83.5	28	31	8.7	14	4.9	2		
ARK 9108-23-05	1232	40.4	10	2.9	27	23	100	1.07	34	83.7	21	10	8.6	15	5.2	1		
DPLX 99X35	1203	42.2	3	3.3	25	22	98	1.11	27	84.4	9	33	8.3	21	4.9	4		
Miscot 8806-2-3-21	1170	39.8	4	4.4	8	30	100	1.11	25	84.3	10	29	8.8	4	4.7	9		
PhytoGen PSC 355 - Chk	1150	38.9	23	5.3	3	19	101	1.13	15	83.8	18	27	9.1	2	4.6	11		
ARK 9108-04-17	1116	39.0	18	3.5	20	29	99	1.10	32	83.7	21	15	8.8	6	4.8	7		
ARK 9101-97-09	1092	39.4	17	4.8	4	24	100	1.13	15	84.1	13	29.4	8.5	19	4.4	19		
ST 457	1089	40.9	8	5.9	1	33	101	1.12	21	83.2	31	30.3	9.4	1	4.4	23		
Sure-Grow 747 - Chk	1085	40.9	9	2.8	29	28	100	1.11	28	83.7	23	28.6	8.8	6	4.8	7		
PH98M-3196	1081	40.3	11	3.5	20	27	99	1.14	7	84.1	15	30.2	8.8	6	4.3	27		
DPLX 99M03	1072	40.9	6	5.7	2	4	103	1.13	14	84.3	11	32.3	8.7	12	4.5	17		
Fibermex FM 989 BR	1072	38.8	25	2.9	27	31	95	1.13	15	83.6	26	30.6	8.3	21	4.5	14		
DES 816	1069	38.9	13	4.5	7	24	98	1.11	28	84.0	16	31.3	8.6	15	4.7	9		
Germaines 271	1067	37.5	28	4.7	5	33	95	1.17	3	84.7	7	31.6	8.4	20	4.6	11		
Fibermex FM 958 B	1021	39.7	15	3.9	14	14	101	1.13	15	83.9	17	31.3	8.2	25	4.4	19		
Miscot 8806-2-3-35	1020	40.8	8	3.9	13	18	102	1.12	24	84.1	13	26.5	8.8	6	4.9	4		
ARK 9101-91-10	1012	37.2	32	4.3	9	16	99	1.11	25	84.5	8	31.4	8.8	6	4.4	19		
DPLX 00S04	1005	39.4	16	3.8	15	16	104	1.18	2	85.3	3	29.5	8.6	17	4.3	32		
Germaines 271	996	40.0	13	4.0	12	14	102	1.14	9	85.3	3	28.0	9.0	3	4.6	11		
ARK 9111-57-20	963	39.0	18	3.4	24	13	102	1.10	33	83.2	32	31.2	8.7	12	4.9	2		
ARK 9108-23-03	937	40.7	9	3.1	26	10	103	1.14	12	82.4	34	32.1	8.0	30	4.9	4		
M623	921	39.0	21	3.8	15	12	101	1.14	9	83.7	23	32.0	8.3	23	4.4	23		
Fibermex FM 966 B	916	39.0	18	3.7	18	17	101	1.15	5	84.8	6	29.6	8.8	6	4.3	27		
ARK 9111-57-12	909	41.6	4	4.3	9	21	104	1.22	1	85.7	2	31.3	8.2	25	4.3	27		
DP 491	897	37.9	26	2.7	30	20	100	1.14	9	83.8	18	29.4	8.0	30	4.3	30		
DP 448 B	848	37.4	30	4.7	6	3	101	1.17	3	85.8	1	29.7	8.8	4	4.2	34		
Germaines PG40	840	40.3	11	2.4	33	16	101	1.10	30	83.2	32	35.2	8.3	23	4.5	16		
ASCI EXP0263	821	37.5	29	3.5	23	16	104	1.13	15	83.8	20	29.7	8.2	25	4.3	32		
ASCI EXP0240	807	37.7	27	2.6	31	32	101	1.12	21	83.3	30	29.8	8.6	17	4.4	23		
Germaines 377	778	37.2	31	3.5	20	4	104	1.12	21	83.6	26	29.6	8.0	30	4.3	30		
M651	724	32.2	34	2.5	32	1	105	1.13	15	84.2	12	31.6	7.8	33	4.5	17		
ASCI EXP0724	644	37.1	33	1.4	34	6	106	1.15	6	85.2	5	32.7	8.2	25	4.4	23		
M611	642	42.5	2	3.6	19	17	109	1.14	13	83.4	29	29.4	7.5	34	4.4	19		
DP 555 BG/RR	566	39.0	21	4.0	11	11	104	1.14	7	83.7	23	32.0	8.1	29	4.5	14		
M658																		
LSD 0.10	125	2.8		0.5		14	4	0.04		1.4		1.6	0.3		0.4			
Mean	972	39.3		3.7		161	101	1.13		84.0		30.3	8.5		4.5			
C.V. (%)	10.9	4.2		11.9		7.2	3.2	2.2		1.0		3.1	2.0		5.0			
R-squared x 100	79.1	74.4		86.4		58.7	63.5	72.1		64.4		87.8	91.4		70.6			

¹ Planted May 2.

Table 16. Results of the 2001 Arkansas Cotton Variety Test for first-year entries without irrigation on a Calloway silt loam soil at Marianna.¹

Variety	Lint		Days to		Plant		Len		Unif		Str		Elo		Mic	
	yield	frac.	cutout	ht	r	in.	r	%	r	g/tex	r	%	r	r	r	
Miscot 8806-2-3-21	963	1	91.0	12	111	13	1.05	21	83.0	8	30.4	28	8.8	3	5.4	4
ARK 9108-23-05	955	2	93.0	2	118	5	1.02	32	82.2	21	33.3	6	8.4	15	5.5	2
ARK 9108-04-17	855	3	89.6	20	111	13	1.05	17	82.5	16	32.7	11	8.4	15	5.5	2
DPLX 99M03	852	4	85.4	33	103	23	1.06	12	82.6	13	32.2	14	8.6	10	4.9	19
PhytoGen PSC 355 - Chk	851	5	91.6	6	116	6	1.02	32	82.1	24	31.8	19	8.8	3	5.3	6
Miscot 8806-2-3-35	845	6	92.5	3	121	1	1.04	23	82.5	18	29.5	31	8.3	24	5.3	6
DPLX 99X35	819	7	86.4	31	98	25	1.01	34	80.8	34	27.9	33	8.4	15	5.2	8
DP 491	816	8	89.2	21	92	31	1.11	1	83.9	2	32.5	12	8.4	18	5.3	5
ARK 9108-23-03	798	9	88.7	24	103	22	1.09	2	83.9	1	31.0	22	8.3	22	5.2	11
DPLX 00S04	794	10	90.7	15	116	8	1.05	17	82.8	10	31.6	20	8.4	20	4.7	28
PH98M-2983	792	11	91.5	8	116	7	1.03	30	82.1	25	30.2	29	8.7	7	4.6	30
Sure-Grow 747 - Chk	786	12	87.1	28	96	26	1.07	7	82.5	16	28.3	32	8.7	5	5.0	13
ARK 9111-57-12	770	13	91.5	9	118	4	1.07	7	83.6	3	32.1	17	9.1	2	5.2	8
PH98M-3196	768	14	91.6	7	105	19	1.05	21	82.3	20	29.9	30	8.7	5	4.6	29
DES 816	762	15	92.1	4	113	9	1.04	26	82.4	19	33.0	8	8.6	10	5.2	8
ARK 9101-97-09	754	16	90.3	17	104	21	1.05	17	82.7	12	31.2	21	8.4	20	4.8	22
ST 457	743	17	90.9	14	98	24	1.06	12	81.8	31	32.1	16	9.1	1	4.3	33
ARK 9111-57-20	707	18	89.0	22	111	13	1.07	7	83.5	4	31.0	24	8.6	9	5.0	13
ASCI EXP0724	703	19	91.0	13	110	17	1.06	10	82.6	13	30.9	25	7.4	34	5.0	13
DP 448 B	700	20	86.9	29	89	33	1.06	10	82.2	21	27.6	34	7.9	30	4.2	34
Fibermax FM 989 BR	697	21	85.4	32	96	28	1.08	5	82.0	27	32.3	13	7.9	31	4.8	23
Germaines 271	695	22	86.4	30	90	32	1.09	2	83.3	6	33.5	4	8.6	10	4.9	20
DP 555 BG/RR	677	23	93.3	1	119	2	1.03	30	81.6	32	30.5	27	8.2	26	5.0	13
M623	661	24	91.6	5	113	10	1.06	12	81.9	28	33.4	5	8.3	22	4.6	31
Germaines 377	658	25	87.4	27	95	29	1.08	5	83.3	6	30.7	26	8.5	13	5.0	13
ASCI EXP0240	657	26	87.6	26	112	12	1.06	12	81.9	29	31.0	23	8.0	28	4.9	20
Fibermax FM 966 B	657	26	91.3	10	105	20	1.04	23	82.6	15	33.3	7	7.9	31	4.7	26
Fibermax FM 958 B	644	28	87.8	25	92	30	1.04	26	81.9	29	33.0	8	7.6	33	5.0	18
ARK 9101-91-10	626	29	89.0	22	96	27	1.04	23	82.0	26	33.6	3	8.4	19	4.5	32
ASCI EXP0263	622	30	83.3	34	81	34	1.04	26	82.8	10	35.6	1	8.3	24	5.1	12
M611	617	31	89.9	18	110	16	1.06	12	83.0	8	35.0	2	8.5	14	5.6	1
Germaines PG40	592	32	90.7	16	119	3	1.09	2	83.4	5	32.9	10	8.7	8	4.8	23
M658	586	33	91.2	11	112	11	1.05	17	82.1	23	32.1	15	8.0	28	4.7	26
M651	530	34	89.9	18	106	18	1.04	26	81.6	33	32.1	17	8.1	27	4.8	23
LSD 0.10	143		ns		ns		ns		ns		1.4		0.4		0.4	
Mean	734		89.5		106		1.05		82.5		31.7		8.4		4.9	
C.V. (%)	16.6		4.8		16.9		2.7		1.4		2.6		2.9		5.3	
R-squared x 100	50.1		41.0		36.7		58.6		46.6		91.2		84.4		77.7	

¹ Planted May 1.

Table 17. Results of the 2001 Arkansas Cotton Variety Test for first-year entries with irrigation on a Desha silt loam soil at Rohwer.¹

Variety	Lint		Lint frac.		Len		Unif		Fiber properties		Elo		Mic	
	yield	r	r	%	r	in.	r	%	r	g/tex	r	%	r	r
ARK 9108-04-17	1473	1	39.0	3	1.15	30	85.5	20	32.0	7	8.6	9	5.0	1
Miscot 8806-3-2-35	1447	2	38.0	8	1.14	32	84.4	34	29.0	27	8.4	18	4.6	9
DPLX 99M03	1374	3	38.4	6	1.18	12	85.0	29	35.4	1	8.4	21	3.8	31
ARK 9108-23-05	1363	4	38.0	8	1.12	34	84.4	33	32.6	5	8.4	15	4.9	2
ARK 9101-91-10	1356	5	37.1	20	1.16	27	85.9	12	28.6	31	8.4	21	4.6	9
ARK 9101-97-09	1330	6	36.6	24	1.15	30	86.0	10	30.4	15	8.5	13	4.6	5
DPLX 99X35	1328	7	39.1	2	1.19	8	85.7	15	28.3	33	8.3	24	4.5	14
ST 457	1322	8	38.0	11	1.17	24	85.0	27	29.5	24	9.4	1	4.8	3
ASCI EXP0724	1306	9	38.0	11	1.20	7	86.0	9	31.0	12	7.5	33	4.3	23
Sure-Grow 747 - Chk	1277	10	37.0	21	1.18	18	86.1	8	26.9	34	8.6	9	4.5	11
Miscot 8806-3-2-21	1249	11	36.7	23	1.18	12	87.1	3	29.8	21	8.6	8	4.2	25
PH98M-2983	1198	12	37.3	17	1.18	18	86.4	7	28.6	32	8.4	18	4.3	19
DES 816	1194	13	36.0	30	1.18	18	86.5	20	31.1	11	8.6	9	4.3	23
ARK 9108-23-03	1192	14	38.4	7	1.16	27	85.2	25	29.4	25	8.3	26	4.6	6
ARK 9111-57-20	1174	15	38.7	4	1.16	25	85.9	13	29.6	23	8.7	6	4.3	21
ARK 9111-57-12	1164	16	38.0	8	1.19	8	86.7	5	28.9	28	8.6	9	4.5	14
Fibermax FM 989 BR	1157	17	37.3	18	1.13	33	84.5	32	31.4	9	7.7	30	4.3	19
ASCI EXP0263	1146	18	37.7	14	1.18	12	85.5	18	33.7	3	8.3	24	4.1	28
PH98M-3196	1145	19	38.6	5	1.18	18	85.4	22	29.4	25	8.7	4	4.6	6
PhytoGen PSC 355 - Chk	1145	19	37.3	18	1.17	23	85.7	17	30.4	15	8.7	4	4.6	6
ASCI EXP0240	1132	21	37.8	13	1.19	8	85.7	15	29.8	22	7.9	28	4.1	28
Fibermax FM 966 B	1130	22	37.6	15	1.18	12	85.8	14	35.3	2	8.4	17	4.4	18
DPLX 00S04	1126	23	36.0	29	1.20	6	86.7	6	31.6	8	8.4	21	4.0	30
M611	1108	24	35.8	31	1.19	8	85.4	22	31.4	9	7.6	31	4.5	11
Fibermax FM 958 B	970	25	37.4	16	1.18	12	86.0	10	33.1	4	8.2	27	4.3	21
Germain PG40	969	26	34.3	33	1.24	2	88.3	1	29.9	20	9.1	2	4.2	26
Germain 271	945	27	36.4	26	1.21	3	87.4	2	30.1	18	8.7	6	4.7	4
Germain 377	865	28	36.9	22	1.18	12	85.5	18	30.1	19	8.9	3	4.5	17
DP 555 BG/RR	835	29	39.2	1	1.21	4	85.2	25	28.8	30	7.5	33	3.8	31
M651	814	30	36.4	26	1.15	29	84.9	30	30.7	13	8.5	13	4.5	11
DP 448 B	790	31	34.0	34	1.18	18	84.7	31	28.9	28	7.9	28	3.7	33
DP 491	754	32	36.2	28	1.28	1	86.8	4	32.2	6	7.6	31	3.6	34
M623	728	33	36.5	25	1.21	4	85.3	24	30.6	14	8.4	15	4.2	27
M658	517	34	35.0	32	1.16	25	85.0	27	30.2	17	8.4	18	4.5	14
LSD 0.10	202		1.6		0.03		1.4		2.2		0.4		0.3	
Mean	1116		37.2		1.18		85.7		30.5		8.3		4.3	
C.V. (%)	15.4		2.6		1.4		1.0		4.3		2.9		4.3	
R-squared x 100	70.8		79.0		87.1		69.0		80.8		86.2		86.2	

¹ Planted June 11.

Table 18. Results of the 2001 Arkansas Cotton Variety Test for first-year entries - means across southern locations.

Variety	Lint		Plant		Len		Unif		Fiber properties		Elo		r	Mic	r	
	yield	frac.	r	ht.	r	in.	r	%	r	g/tex	r	%				
ARK 9108-23-05	1183	1	39.70	11	137	15	1.07	34	83.40	29	32.40	6	8.50	16	5.20	1
ARK 9108-04-17	1148	2	39.70	10	131	20	1.10	33	83.90	21	31.90	9	8.60	10	5.10	2
Miscot 8806-3-2-21	1127	3	39.00	19	131	21	1.11	22	84.80	7	29.60	27	8.70	5	4.80	8
DPLX 99X35	1116	4	41.60	1	128	26	1.10	31	83.60	26	27.70	34	8.30	21	4.80	5
Miscot 8806-3-2-35	1104	5	40.70	3	141	6	1.10	32	83.60	25	28.30	32	8.50	17	4.90	3
PH98M-2983	1091	6	40.40	4	142	4	1.10	30	84.00	16	28.90	30	8.60	12	4.60	16
DPLX 99M03	1074	7	40.30	7	136	16	1.12	14	83.90	17	33.30	3	8.50	13	4.40	32
ARK 9101-97-09	1058	8	38.60	20	130	22	1.11	24	84.30	10	30.30	22	8.40	18	4.60	14
ST 457	1051	9	39.40	13	122	31	1.11	19	83.30	33	30.60	19	9.30	1	4.50	24
Sure-Grow 747 - Chk	1049	10	39.40	12	124	29	1.12	18	84.10	12	27.90	33	8.70	8	4.80	8
PhytoGen PSC 355 - Chk	1049	11	39.10	14	138	13	1.10	27	83.80	22	30.50	21	8.90	2	4.80	7
DES 816	1008	12	38.00	25	135	18	1.11	25	83.90	17	31.80	10	8.60	10	4.70	10
ARK 9101-91-10	998	13	37.30	28	129	23	1.10	28	84.10	11	31.20	14	8.50	15	4.50	27
PH98M-3196	998	14	40.20	8	129	23	1.12	15	83.90	19	29.80	26	8.70	7	4.50	24
ARK 9108-23-03	984	15	39.00	17	134	19	1.11	20	84.10	13	30.50	20	8.40	19	4.90	4
Fibermax FM 989 BR	975	16	38.60	21	122	30	1.11	23	83.30	31	31.40	12	8.00	31	4.50	21
DPLX 00S04	975	17	38.30	24	141	5	1.14	4	84.90	5	30.90	16	8.40	19	4.30	33
ARK 9111-57-20	959	18	40.30	6	137	14	1.12	11	84.90	6	29.50	29	8.70	5	4.60	13
ARK 9111-57-12	950	19	39.10	14	140	9	1.14	5	85.00	4	30.20	23	8.80	4	4.70	12
ASCI EXP0724	911	20	37.20	30	145	3	1.13	8	84.30	9	31.20	15	7.60	34	4.60	17
Fibermax FM 966 B	903	21	39.00	18	135	17	1.12	16	84.00	14	33.50	2	8.20	25	4.50	24
Germaines 271	902	22	37.00	32	118	34	1.16	3	85.10	3	31.70	11	8.50	14	4.70	11
Fibermax FM 958 B	878	23	39.10	16	128	25	1.11	20	83.90	20	32.40	5	8.00	30	4.60	18
ASCI EXP0240	870	24	38.50	22	140	7	1.12	13	83.80	24	30.10	25	8.00	29	4.40	29
ASCI EXP0263	869	25	39.70	9	119	33	1.11	25	83.80	23	34.80	1	8.30	22	4.60	19
DP 491	826	26	40.40	5	125	27	1.20	1	85.50	2	32.00	8	8.10	28	4.40	30
Germaines PG40	803	27	37.10	31	147	2	1.16	2	85.80	1	30.80	17	8.80	3	4.40	30
DP 448 B	796	28	36.30	34	124	28	1.13	10	83.60	28	28.60	31	7.90	32	4.10	34
M611	789	29	37.60	27	139	10	1.13	7	84.50	8	33.00	4	8.10	27	4.80	6
Germaines 377	776	30	37.90	26	121	32	1.13	9	84.00	14	30.20	23	8.60	9	4.60	14
M623	775	31	38.50	22	140	7	1.13	6	83.20	34	32.00	7	8.20	23	4.50	21
DP 555 BG/RR	718	32	41.60	2	149	1	1.12	11	83.40	30	29.60	28	7.70	33	4.40	28
M651	707	33	36.90	33	138	12	1.10	28	83.30	31	30.80	18	8.20	24	4.50	21
M658	556	34	37.20	29	139	11	1.12	17	83.60	27	31.40	13	8.10	26	4.60	19
LSD 0.10	92		1.20		12.5		0.02		0.90		1.00		0.20		0.20	
Marianna, irrigated	972		39.30		161		1.13		84.03		30.30		8.47		4.50	
Marianna, non-irrigated	734		40.30		106		1.05		82.48		31.70		8.36		4.90	
Rohwer, irrigated	1116		37.20		NA		1.18		85.70		30.50		8.35		4.30	
LSD 0.10	57		0.70		10.8		0.01		0.60		0.80		0.20		0.20	
Mean	940		38.90		133		1.12		84.10		30.80		8.40		4.60	
C.V.(%)	14.5		3.30		11.3		2.10		1.10		3.40		2.60		4.90	
R-squared x 100	80.7		85.00		84.5		92.60		84.80		87.40		87.40		86.30	
Prob. (variety x locations)	<0.01		<0.01		0.7		0.40		0.90		<0.01		<0.01		<0.01	

Table 19. Lint yields and ranking for varieties in northern locations of the Arkansas Cotton Variety Test; two-year means 2000-2001.

Variety	Keiser irrig. lb/a	r	Keiser non-irrig. lb/a	r	Clarkedale irrig. lb/a	r	All northern loc. lb/a	r
FiberMax FM 958	1342	2	921	3	1100	3	1121	1
Sure-Grow 105	1254	5	891	6	1156	1	1100	2
ST 4691B	1346	1	920	4	1033	12	1100	3
SG 215 BG/RR	1234	6	930	2	1060	4	1075	4
Sure-Grow 747	1179	10	863	10	1136	2	1059	5
FiberMax FM 966	1305	3	789	21	1046	9	1047	6
DES H16-24-19	1269	4	811	19	1058	5	1046	7
ST 4892BR	1164	13	918	5	998	16	1027	8
ARK 8712	1216	8	814	17	1040	10	1023	9
Miscot 8806	1161	14	844	14	1046	8	1017	10
GC 106	1219	7	871	8	951	23	1013	11
Miscot 8839	1113	19	870	9	1050	7	1011	12
PhytoGen PSC 355	1150	15	848	12	1030	13	1009	13
GC 108	1121	18	977	1	888	27	995	14
BXN 47	1197	9	776	22	998	17	990	15
Sure-Grow 501BR	1081	21	877	7	1005	15	988	16
PM 1199 RR	1070	22	839	15	1039	11	982	17
DES H16-14-09	1144	16	752	25	1051	6	982	18
PM 1218 BG/RR	1091	20	860	11	960	20	970	19
DES 810	1170	12	729	26	1006	14	968	20
ST 4793R	1121	17	806	20	958	22	962	21
Garst/Agripro 1500RR	1026	25	828	16	972	18	942	22
DES H16-14-20	1171	11	703	27	945	25	940	23
DP 451 B/RR	1019	27	813	18	960	19	931	24
BXN 49B	1062	23	759	24	958	21	926	25
ST X9905	1026	26	848	13	863	28	912	26
ST 580	1048	24	765	23	899	26	904	27
DP 436 RR	986	28	700	28	950	24	879	28
Mean	1153		833		1005		997	

Table 20. Lint yields and ranking for varieties in southern locations of the Arkansas Cotton Variety Test; two-year means 2000-2001.

Variety	Marianna irrig.	r	Marianna non-irrig.	r	Rohwer irrig.	r	All southern loc.	r
Miscot 8806	1316	4	603	1	1349	1	1089	1
PhytoGen PSC 355	1377	2	554	5	1336	2	1089	2
Fibermax FM 958	1408	1	525	11	1225	11	1052	3
ST 4691B	1316	5	503	17	1268	5	1029	4
ST X9905	1293	8	553	6	1240	9	1029	5
ST 4892BR	1317	3	508	15	1248	8	1024	6
BXN 49B	1283	9	516	13	1257	7	1018	7
PM 1218 BG/RR	1233	14	506	16	1287	3	1008	8
DES H16 24-19	1299	7	538	8	1182	18	1006	9
Miscot 8839	1157	20	576	3	1277	4	1003	10
Sure-Grow 747	1270	11	528	10	1188	16	995	11
Fibermax FM 966	1258	12	462	23	1262	6	994	12
DES 810	1233	15	553	7	1189	15	991	13
Sure-Grow 105	1314	6	531	9	1128	22	991	14
DP 20 B	1240	13	497	18	1210	13	982	15
SG 215 BG/RR	1204	16	591	2	1120	24	971	16
DES H16 14-09	1194	17	492	19	1174	19	953	17
ST 4793R	1278	10	386	30	1192	14	952	18
ARK 8712	1160	19	481	21	1184	17	941	19
Sure-Grow 501BR	1144	22	564	4	1081	28	929	20
DP 436 RR	1122	24	525	12	1127	23	925	21
BXN 47	1130	23	398	29	1212	12	913	22
Deltapine 565	1090	26	419	27	1229	10	913	23
DES H16 14-20	1181	18	448	26	1106	26	911	24
DeltaPEARL	1111	25	450	25	1133	21	898	25
DP 451 B/RR	1034	28	488	20	1166	20	896	26
ST 580	1067	27	512	14	1108	25	895	27
PM 1199 RR	1150	21	413	28	1033	29	865	28
Garst/Agripro 4600RR	976	30	475	22	1102	27	851	29
NuCOTN 33 B	985	29	456	24	1019	30	820	30
Mean	1204		501		1187		964	

Table 21. Lint yields and ranking for varieties in northern locations of the Arkansas Cotton Variety Test, three-year means 1999-2001.

Variety	Keiser		Northern		Clarkedale		Northern loc.	
	irrig.	r	non-irrig. ¹	r	irrig.	r	mean	r
	lb/a		lb/a		lb/a		lb/a	
FiberMax FM 958	1333	1	790	3	1179	1	1100	1
Sure-Grow 105	1278	4	785	4	1165	2	1076	2
SG 215 B/R	1232	7	797	2	1116	5	1048	3
FiberMax FM 966	1286	3	721	13	1126	4	1044	4
Sure-Grow 747	1247	6	733	12	1132	3	1037	5
ST 4691 B	1287	2	780	5	1007	14	1025	6
GC 106	1271	5	747	8	1009	13	1009	7
GC 108	1170	11	872	1	984	16	1009	8
PhytoGen PSC 355	1166	12	764	6	1085	6	1005	9
ST 4892 BR	1197	9	742	10	1059	8	999	10
ARK 8712	1208	8	698	14	1078	7	995	11
PM 1218 BG/RR	1155	13	758	7	1046	10	986	12
BXN 47	1196	10	626	17	1057	9	960	13
Sure-Grow 501B/R	1076	15	744	9	1034	11	951	14
ST 4793 R	1113	14	686	15	1016	12	938	15
DP 451 B/RR	1056	16	737	11	1002	15	932	16
DP 436 RR	1023	17	648	16	971	17	881	17
Mean	1194		743		1063		1000	

¹ Non-irrigated tests were located at Clarkedale in 1999 and at Keiser in 2000 and 2001.

Table 22. Lint yields and ranking for varieties in southern locations of the Arkansas Cotton Variety Test, three-year means 1999-2001.

Variety	Marianna		Marianna		Rohwer		All	
	irrig.	r	non-irrig.	r	irrig.	r	southern loc.	r
	lb/a		lb/a		lb/a		lb/a	
PhytoGen PSC 355	1332	1	661	2	1392	1	1129	1
Fibermax FM 958	1315	2	644	3	1247	7	1069	2
ST 4691B	1290	3	623	5	1287	3	1066	3
PM 1218 BG/RR	1219	7	591	9	1362	2	1057	4
ST 4892BR	1266	6	580	11	1241	8	1029	5
Sure-Grow 747	1218	8	643	4	1211	10	1024	6
Sure-Grow 105	1282	4	600	7	1170	12	1018	7
BXN 47	1278	5	516	15	1252	5	1015	8
Fibermax FM 966	1186	10	578	12	1252	6	1005	9
SG 215 B/R	1169	11	667	1	1156	13	997	10
ST 4793R	1214	9	501	16	1264	4	993	11
ARK 8712	1134	12	582	10	1220	9	979	12
Sure-Grow 501 BR	1100	13	620	6	1114	15	945	13
DP 436 RR	1070	14	596	8	1131	14	932	14
DP 451 B/RR	992	15	565	13	1194	11	917	15
NuCOTN 33 B	943	16	546	14	962	16	817	16
Mean	1188		595		1216		999	

Table 23. Results of the 2001 Mississippi County Variety Test on a Routon-Dundee-Crevasse soil complex with irrigation, David Wildy Farms, Manila.¹

Variety	Lint		Days to		Len		Unif		Str		Elo		Mic	
	yield	frac.	r	cutout	r	in.	r	%	r	g/tex	r	%	r	r
FiberMax FM 966	1372	39.3	1	97.0	6	1.17	5	85.7	2	34.9	1	8.1	11	4.7
DP 451 B/RR	1279	36.3	10	98.3	4	1.18	2	85.0	7	29.5	11	8.5	8	4.8
ST 4892 BR	1226	38.3	3	97.0	7	1.16	9	84.7	8	31.4	4	8.4	10	4.8
Sure-Grow 105	1212	37.5	8	95.3	10	1.18	4	85.6	3	30.0	9	8.7	3	4.7
DP 436 RR	1207	35.2	12	99.0	3	1.17	5	84.5	9	28.9	12	8.6	5	4.7
FiberMax FM 958	1202	37.1	9	96.8	8	1.17	7	84.4	10	31.4	5	7.7	12	4.8
PM 1199 R	1201	38.0	4	93.0	12	1.16	8	85.1	6	31.6	3	8.5	9	4.9
ARK 8712	1173	36.1	11	95.8	9	1.20	1	85.8	1	32.0	2	8.7	3	4.9
PhytoGen PSC 355	1167	37.9	6	105.0	1	1.14	12	84.3	12	30.9	6	9.1	1	4.8
PM 1218 BG/RR	1156	37.8	7	95.3	11	1.15	11	84.4	10	29.8	10	8.6	6	4.9
Sure-Grow 747	1148	37.9	5	97.3	5	1.18	3	85.6	4	30.5	8	8.7	2	4.7
ST 4793 R	1132	38.4	2	99.8	2	1.16	10	85.3	5	30.8	7	8.6	7	4.8
LSD 0.10	82.7	2.3		3.1		ns		0.9		ns		0.4		ns
Mean	1206	37.5		97.4		1.17		85.0		31.0		8.5		4.8
C.V.(%)	5.7	5.1		2.7		2.2		0.8		7.7		3.6		4.2
R-squared x 100	54.7	36.0		78.8		45.5		48.6		39.0		65.8		47.2

¹ Planted 4/25, defoliated 9/17 and 9/24, harvested 10/17.