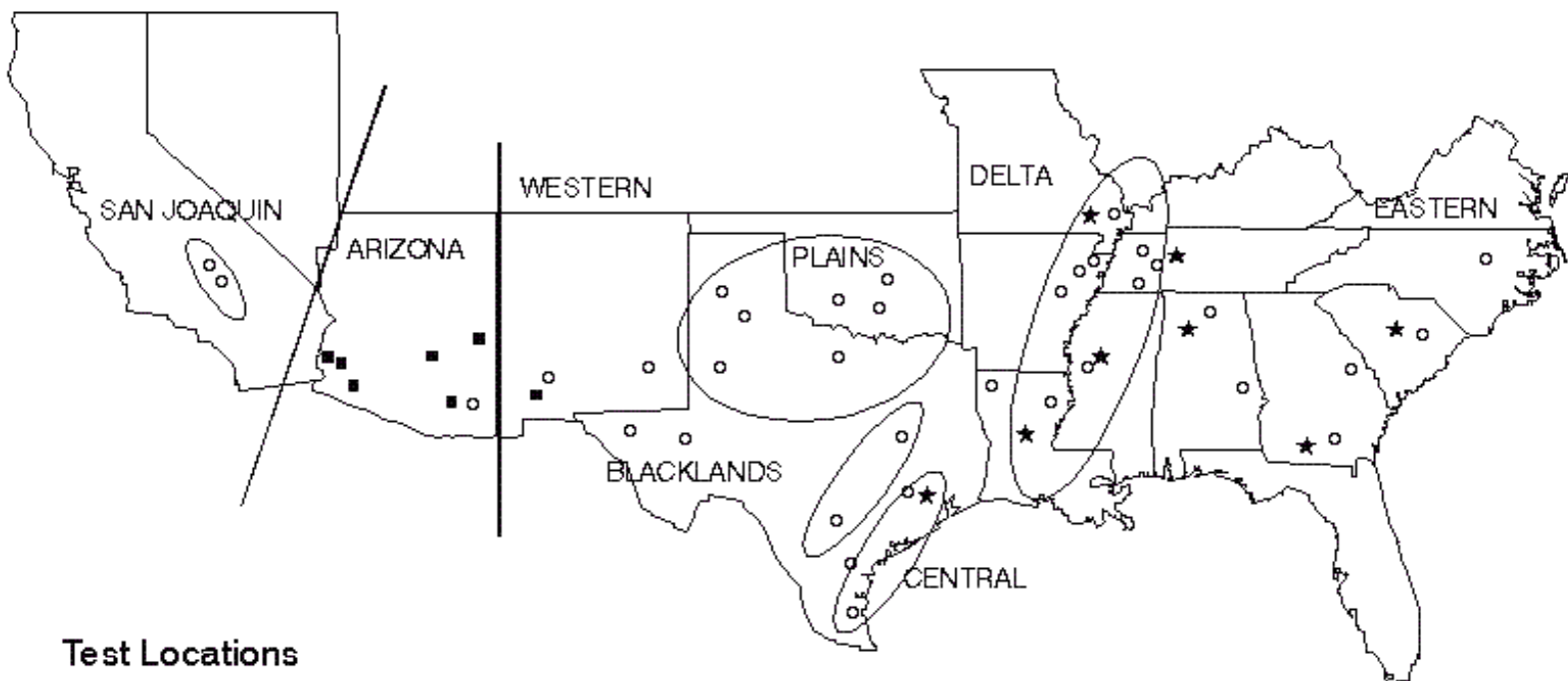




1993 National Cotton Variety Tests

Yield, Boll, Seed, Spinning and Fiber Data



Test Locations

- Upland Varieties
- ★ High Quality Varieties
- Extra Long Staple, Pima

[About the National Cotton Variety Tests](#)

Compiled by Samuel T. Rayburn, Program Analyst; Ronald Britton, computer specialist; and Ellen Keene, computer assistant; Cotton Physiology and Genetics Research Unit, Jamie Whitten Delta States Research Center, United States Department of Agriculture - Agricultural Research Service, Stoneville, Mississippi, in cooperation with the agricultural experiment stations of Alabama, Arkansas, Arizona, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas.

*Agricultural Research Service
U. S. Department of Agriculture*

The National Cotton Variety Test series is available free of charge from the National Cotton Variety Test Program.

National Cotton Variety Tests, 1993.
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Joint Cotton Breeding Policy Committee

(As of January 1991)

- W. G. Chace, Jr., Agricultural Research Service, USDA, Albany, CA
- F. P. Horn, Agricultural Research Service, USDA, College Station, TX
- K. Jones, Delta and Pine Land Co., Scott, MS
- A. G. Jordan, National Cotton Council of America, Memphis, TN (Secretary)
- C. W. Manning, Stoneville Pedigreed Seed Co., Stoneville, MS (Emeritus)
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- R. Sheetz, Cargill Research, Plainview, TX
- D. T. Smith, Texas Agricultural Experiment Station, College Station, TX
- J. Musick, Arkansas Agricultural Experiment Station, Fayetteville, AR
- K. W. Tipton, Louisiana Agricultural Experiment Station, Baton Rouge, LA (Chairman)





National Cotton Variety Testing Committee

(As of January 1993)

- D. M. Bassett, University of CA, U. S. Cotton Research Station, Shafter, CA
- F. M. Bourland, University of Arkansas, Fayetteville, AR
- R. R. Bridge, Delta Branch Experiment Station, Stoneville, MS
- J. R. Gannaway, Texas Agricultural Experiment Station, Lubbock, TX (Chairman)
- P. E. Hoskinson, West Tennessee Agricultural Experiment Station, Jackson, TN
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- S. R. Oakley, California Planting Cottonseed Distributors, Shafter, CA
- S. T. Rayburn, Agricultural Research Service, USDA, Stoneville, MS (Secretary)
- R. Sheetz, Cargill Research, Plainview, TX
- C. W. Smith, Texas Agricultural Experiment Station, College Station, TX
- R. Percy, Agricultural Research Service, USDA, Maricopa, AZ





National Cotton Variety Test Archive File

The National Cotton Variety Test, from its inception in 1960 to the current year, is maintained in an archive file at the NCVT Program headquarters, Stoneville, MS. These files are available from the ARS Coordinator for the NCVT Program. The following files are available on diskette:

- Cottonseed Quality Archive File (1977 - 1993)
- Yield Archive File (1960 - 1993)
- Fiber Quality Archive File (1960 - 1993)
- Pima Combed Yarn Archive File (1962 - 1993)

- Code Files:
 - Alpha & Numeric Variety Listings (2 files)
 - Alpha & Numeric Location Listings (2 files)
 - (includes Regional Codes)

The Archive Files, Codes, Content and Index files will be updated to include the current data each year, following the publication of the Annual Report. Write or phone:

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Stoneville, MS 38776
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Introduction

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a uniform system of reporting data from cotton- yield trials across the US Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State Agricultural Experiment Stations and the Agricultural Research Service. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year testing cycle. For the twelfth 3-year testing cycle, beginning in 1993, the national standards were Acala 1517-88, Paymaster HS26, Deltapine 50, and Deltapine 90. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. In 1984, the cooperators for the Eastern, Central, and Delta regions elected to include interregional standards. Data on the national, regional, and interregional standards were included in this report. All varieties were grown to obtain experimental data, and the designation of national, regional, and interregional standards is not an endorsement of these varieties by the U. S. Department of Agriculture or the cooperating State Agricultural Experiment Stations.

Plot size, cultural practices, number of entries, and sampling methods were left to the discretion of the participating stations. While these details were not rigidly standardized, all tests were conducted by experienced personnel using sound experimental designs and procedures.

Yield, boll size, lint percentage, and seed index were supplied by the cooperating stations. Fiber, yarn, and HVI tests were made by Starlab, Inc., Knoxville, TN, and combed yarn tests were made by USDA-AMS Cotton Testing Section at Clemson, SC. Chemical analyses of seed were done by Woodsen-Tenent Laboratories, Inc., Memphis, TN. All data were compiled, analyzed, tabulated, and duplicated by the staff of the office of the Program Analyst for the National Cotton Variety Test.

In 1993, the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all tests except the Pima Region. Strains developed in the southern states with superior fiber properties and spinning performance were tested in three contiguous Regions (high quality test). Extra-long-staple American Pima varieties were tested in the Western and Arizona Regions.

In 1993, results of the Regional Project S-205 Regional Bollworm-Budworm Tests were reprinted in this report. The purpose in reprinting this vital information is to assist Regional Project S-205 by making the data more widely available to the Cotton Improvement Community.





Regional Tests & Participating Stations

Eastern Regional Cotton Variety Test (Upland Varieties)

- Alabama Agricultural Experiment Station
 - Main Station, Auburn, AL
 - Tennessee Valley Substation, Belle Mina, AL
- Georgia Agricultural Experiment Station
 - Georgia Coastal Experiment Station, Tifton, GA
- Clemson University
 - Pee Dee Experiment Station, Florence, SC
- University of Tennessee
 - West Tennessee Agricultural Experiment Station, Jackson, TN
 - Milan Field Station, Milan, TN

Delta Regional Cotton Variety Test (Upland Varieties)

- Arkansas Agricultural Experiment Station
 - Delta Substation, Clarkedale, AR
- Mississippi Agricultural & Forestry Exp. Station
 - Delta Branch, Stoneville, MS
- Missouri Agricultural Experiment Station
 - Delta Center, Portageville, MO
- Louisiana Agricultural Experiment Station
 - Northeast Louisiana Experiment Station, St. Joseph, LA

Central Regional Cotton Variety Test (Upland Varieties)

- Louisiana Agricultural Experiment Station
 - Red River Valley Experiment Station, Bossier City, LA
- Texas A&M University
 - Extension Center, Weslaco, TX
 - Main Station, College Station, TX
 - Off-Station Test, Beeville, TX

Blackland Regional Cotton Variety Test (Upland Varieties)

- Texas A&M University
 - Agricultural Research and Extension, Dallas, TX
 - Stiles Farm Foundation, Thrall, TX

Plains Regional Cotton Variety Test (Upland Varieties)

- Oklahoma Agricultural Experiment Station
 - Cotton Research Station
 - Irrigated Test, Chickasha, OK
 - Dryland Test, Chickasha, OK
 - Irrigation Experiment Station, Altus, OK
- Southwest Agronomy Research Station
 - Dryland Test, Tipton, OK
- Texas A&M University
 - Agricultural Research & Extension Center (Chillicothe)
 - Dryland Test, Chillicothe, TX
 - Agricultural Research & Extension Center (Lubbock)
 - Irrigated Test, Lubbock, TX
 - Off-Station (Dryland Test), LaMesa, TX

Western Regional Cotton Variety Test (Upland Varieties)

- New Mexico Agricultural Experiment Station
 - Main Station, University Park, NM
 - Southeastern Branch Station, Artesia, NM
- Texas A&M University
 - Agricultural Research Center, El Paso, TX
 - Agricultural Research Center, Pecos, TX

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

- California Agricultural Experiment Station
 - West Side Field Station, Five Points, CA
- U.S. Cotton Field Station, Shafter, CA

High Quality Regional Cotton Variety Test

- Alabama Agricultural Experiment Station
 - Tennessee Valley Substation, Belle Mina, AL
- Clemson University
 - Pee Dee Experiment Station, Florence, SC

- Georgia Agricultural Experiment Station
 - Georgia Coastal Plain Experiment Station, Tifton, GA
- Louisiana Agricultural Experiment Station
 - Red River Valley Experiment Station, Bossier City, LA
- Mississippi Agricultural & Forestry Experiment Station
 - Delta Branch, Stoneville, MS
- Missouri Agricultural Experiment Station
 - Delta Center, Portageville, MO
- North Carolina State University
 - Upper Coastal Plain Experiment Station, Rocky Mount, NC
- Texas A&M University
 - Texas Agricultural Experiment Station, College Station, TX
- University of Tennessee
 - West Tennessee Agricultural Exp. Station, Jackson, TN

Pima Regional Cotton Variety Test

- Arizona Agricultural Experiment Station
 - Cotton Research Center, Maricopa, AZ
 - Marana Experiment Station, Marana, AZ
 - Off-Station Test
 - Yuma, Yuma, AZ
- California Agricultural Experiment Station
 - West Side Field Station, Five Points, CA
- Safford Branch Experiment Station
 - Off-Station Test, Safford, AZ, and Tranquility, CA
- New Mexico Agricultural Experiment Station
 - Off-Station Test, Las Cruces, NM
- Texas A&M University
 - Agricultural Research Center, El Paso, TX

Combed-Yarn Test (American Pima Varieties)

American Pima cottons are commonly spun into combed yarns. In addition to the carded yarn tenacity, combed-yarn tests of Pima cotton grown at two locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, United States Department of Agriculture, Cotton Testing Section at Clemson, SC. Classer's grade and staple, yarn tenacity of 11.8- and 7.4- tex (50's and 80's cotton count) yarns, appearance index, imperfections per 1,000 yards, and waste percentages are reported.





Explanations and Definitions

II No interpretation of the test results other than the indication of the significant difference among means based on an analysis of variance is presented. The variety x location interaction mean square was used as the Error term in F tests and Duncan's Multiple Range tests in the combined-over-locations ANOVA for each region and subregion. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's Multiple Range Test. Statistical analyses and Duncan's Multiple Range test were performed using SAS. A randomized complete block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to eight replications were planted, depending on the station, with four replications being more commonly used. Boll size, lint percentage, and seed, fiber, and yarn data were based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first four tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. For some tests, subregional summaries are also included. Following these tables average data for each location in the region are given, each table being arranged by variety in order of decreasing lint yield.

The column headings and symbols are defined as follows:

Arealometer

The arealometer is an instrument which measures fiber fineness and shape by measuring the resistance a given mass of fiber offers to the flow of air. Fineness and shape measures are used to calculate Immaturity Ratio (I), % Maturity (M), Perimeter (p), Weight Fineness (w), and Wall Thickness (t).

A

Is a measure of the external surface area of the fibers of a given volume of fibrous material, expressed in terms of square millimeters per cubic millimeter of fibrous material.

D

The difference between the value of the specific area determined at high pressure (AH) and the value of the specific area determined at standard pressure (the "A" measured above). "D" is presumably a measure of the flatness of the fiber ribbon; i.e., the higher the "D" value, the more ribbonlike are the fibers.

I

The immaturity ratio is a dimensionless number which describes a physical characteristic of the

fiber cross section. It is defined as the ratio of the area that the fiber cross section would have if its perimeter enclosed a circle to the area that the perimeter actually encloses. It is found by substituting D in the formula:

$$I = (0.07D+1)^{(1/2)}$$

M

The simple linear regression prediction of caustic soda percent maturity from Hertel and Craven Textile Research Journal 21: 765-774,1951. The prediction equation is: $M = 150.5 - 38.1I$. M is an unreliable prediction of caustic soda percent maturity above about 95% and below about 35%. Values of M above 100% were obtained on some samples and are reported as obtained. The caustic soda percent maturity has an upper limit of 100%.

(p)

The perimeter is defined as the distance around the outside wall of the fiber cross section. The perimeter in microns is determined by:

$$P = \frac{12,566 I}{A}$$

(w)

The weight fineness, or linear density, is defined as the mass per unit length of fiber. It is calculated in ægm per inch by use of the following formula:

$$w = \frac{485 * 10^3 * I}{A^2}$$

(t)

Wall thickness in microns calculated from:

$$t = \frac{2000}{A[1+(1 - 1/I)^{(1/2)}]}$$

Boll size

The mass, in grams, per boll of seed cotton.

Classer's designation

A description of the quality of cotton in terms of grade and staple according to the official cotton standards of the United States. For grade, classification is based on appearance and is accomplished chiefly through the sense of sight by integration of the three factors of grade--color, leaf, and preparation--in the sample. Classification for staple length involves both sight and

touch and is made by pulling out and comparing a typical portion of fiber from a sample with the official staple types.

Digital Fibrograph

An instrument for measuring fiber length. S.L. (span length) is the distance spanned by a specific percentage of the fibers in the test specimen, where the initial starting point of the scanning in the test is considered 100 percent. The 2.5 percent S.L. is the length, in inches, on the test specimen spanned by 2.5 percent of the fibers scanned at the initial starting point. The 2.5 percent S.L. approximates classer's stable. The 50 percent S.L. is the length, in inches, on the test specimen spanned by 50 percent of the fibers scanned at the initial starting point.

Free gossypol

The gossypol in fuzzy seeds as determined by the HPLC Method described in Vol. 59, page 546, 1982 of the Journal of the American Oil Chemist's Society modified as follows: Immediately after obtaining the hull-free kernels, they were dried in a forced-draft oven at 180°F for 4 hours. At the end of 4 hours drying, the kernels were immediately placed in moisture-proof containers and cooled. In proceeding with the HPLC Method every effort was made to prevent the kernels from regaining moisture. The purpose of this modification was to reduce free moisture on the kernels with which the gossypol could interact and become bound to the protein thus reducing the free gossypol content. The use of this modification (starting with 1987 crop) resulted in higher estimates of free gossypol than in previous years. Free gossypol is expressed as a percentage of the mass of the kernel.

High Volume Instrument

An instrument system used to measure length, strength, micronaire, and color of cotton fibers.

Lint percent

The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

Lint yield

The mean production of the plots harvested, expressed in pounds of lint per acre and reported as estimated by each participant.

Micronaire

The fineness of the sample taken from the ginned lint, measured by a Fibronaire and expressed in standard (curvilinear scale) micronaire units.

Nitrogen

The nitrogen in fuzzy seeds as determined by AOCS Method Ba 4-38; expressed as a percentage of the mass of fuzzy seeds. The percentage of nitrogen multiplied by 6.25 is an approximation of the percentage of protein.

Oil

The oil in fuzzy seeds as determined by AOCS Method Aa 4-38; expressed as a percentage of the mass of the fuzzy seeds.

Seed index

The mass of 100 fuzzy seeds, in grams.

SL-HVI AMS (Calibrated to USDA SL-HVI Standard)

The SL-HVI is a High Volume Instrument system, manufactured by Spinlab, Inc. of Knoxville, Tennessee, used to measure length, strength, micronaire, and color of cotton fibers. The

measurements were made on a Spinlab 900 High Volume Fiber Test System, by the USDA-AMS Quality Control Section at Memphis, Tennessee. The instrument was calibrated using the USDA Spinlab HVI Standard Cotton.

2.5 S.L.

See Digital Fibrograph for definition

Uniformity Ratio (UR)

Ratio of 50% S.L. to 2.5% S.L.

Elongation (E)

Elongation at point of break in strength determination.

Strength

Is the fiber strength of a bundle of fibers measured with the two jaws holding the fiber bundle separated by one-eighth inch, expressed in grams force per tex. In previous reports, this measurement was called Tenacity. Since the physical nature of this measurement is under investigation, use of the more general term seems appropriate.

Micronaire

The fineness of the sample taken from the ginned lint, measured by a Fibronaire- type instrument and expressed in standard (curvilinear scale) micronaire units.

Colorimeter

Rd

Is the percentage of the reflectance; the higher the value, the lighter the cotton.

Hunter's b value

Is a measure of increasing yellowness of the cotton.

Stelometer

An instrument for measuring fiber strength. T1 is the fiber strength of a bundle of fibers measured on the Stelometer with two jaws holding the fiber bundle separated by one-eighth inch spacer, expressed in millinewtons (mN) per tex. E1 is the percentage elongation at break of the center one-eighth inch of the fiber bundle measured for T1 strength on the Stelometer.

Tex

The linear density of fibers, filaments, and yarns expressed as the mass, in milligrams, of 1 meter of the fiber filaments or yarn.

Waste

The difference in mass, expressed as a percentage of the fed stock and delivered stock. Picker and card waste is the loss in mass during opening, picking and carding. Comber waste is the loss in mass during combing.

Yarn appearance index

The relative evenness, smoothness and freedom from foreign material of the yarn as evaluated by visual comparison of the yarn with the standards adopted by the American Society for Testing and Materials. Higher numbers indicate more even and smooth yarns with less foreign material.

Yarn tenacity

In the Regional test the standard skein strength of the yarn in millinewtons per tex (mN/tex) is estimated from miniature skeins. The data is adjusted to standard skein basis and corrected to 27 tex. The Pima Combed strength of 11.8 and 7.4 tex yarns in millinewtons per tex (mN/tex) is determined on standard skeins.





Reporting Variations

- Arizona Region Test Results:
 - The two reporting locations did not utilize the same varieties of cottons in the tests.





Varieties Tested in 1993 NCVT

VARIETY	CODE	REGION (A)										
		1	2	3	4	5	6	7	8	16	17	
ACALA 1517 SR-3	826					X						
ACALA 1517-88	731 (B)	X	X	X	X	X		X	X	X		X
ACALA 1517-91	788					X						X
ACALA B4 222	873					X						
ACALA GC 510	749					X			X			
ACALA MAXXA	773								X			
ACALA PREMA	756					X						
ACALA ROYALE	772								X			
AGC 1185	938											X
AGC 2006	939											X
AGC 2008	934											X
AGC EX 2008	916								X			
AGC EX 2009	917								X			
ALL-TEX MAX-9	874					X						X
ALL-TEX QUICKIE	812	X										
CB 1233	882		X		X							X
CBX 1233	860											X
CBX 392	907								X			
CG-9102	911								X			
CHEMBRED 407	829		X						X			X
CHEMBRED CB 1135	831		X									X
CHEMBRED CBX1210	875					X						
COKER 320	706					X						
CPCSD C-111	894								X			
CPCSD C-224	908								X			
CPCSD C-225	909								X			
DELTAPINE 20	473				X							
DELTAPINE 50	689 (B)	X	X	X	X	X		X	X	X		X
DELTAPINE 5415	857		X		X							X
DELTAPINE 90	649 (B)	X	X	X	X	X		X	X	X		X
DES 119	750		X	X	X							
DP 5409	919								X			
DPL 5461	900											X
DPL 5690	849		X									X
DPL 900	897								X			
DPX 3818	918								X			

GA 89-308	920									X			
GA 89-41	921									X			
GC 9001	898										X		
GC 9021	940										X		
GC 9033	936											X	
GC-9011	910										X		
GEORGIA KING	859			X									
GP 74+	941	X											
HB 133	924									X			
HB 147	925									X			
HB 91-SS109	922									X			
HB 92-44	923									X			
HOLLAND 1919	902	X											
HS 44	932											X	
HS46	865			X								X	
HY 39	935											X	
LANKART 142	903	X											
MD 14-24	926									X			
McNAIR 220	450						X						
OA6	937											X	
P73	803									X			
P75	851									X			
P76	852									X			
P77	877									X			
PAYMASTER 147	904	X											
PAYMASTER HS 200	905	X											
PAYMASTER HS 26	578 (B)	X	X	X	X	X	X				X	X	X
PD 3	654			X									
PD 3-14	927									X			
PHY B638	933											X	
PHYTOGEN 17	899										X		
PHYTOGEN 25	912										X		
PHYTOGEN 27	913										X		
PHYTOGEN 31	914										X		
PIMA S-6	471									X			
PIMA S-7	615									X			
S-1001	834			X								X	
SG X 86-398	928									X			
SG X 87-75	929									X			
SOUTHLAND 400	906	X											
SS 9202	930									X			

STONEVILLE 1324	714						X
STONEVILLE 453	697	X		X			X
STV KC311	741	X					X
STV LA 887	893	X	X	X			X
STV X 76207	931					X	
SUREGROW 501	915	X					X

TAMCOT CD3H	813	X					
TAMCOT HQ95	815						X

(A) REGIONS

- 1 PLAINS
- 2 EASTERN
- 3 CENTRAL
- 4 DELTA
- 5 WESTERN
- 6 PIMA
- 7 HIGH QUALITY
- 8 SAN JOAQUIN
- 16 BLACKLAND
- 17 ARIZONA

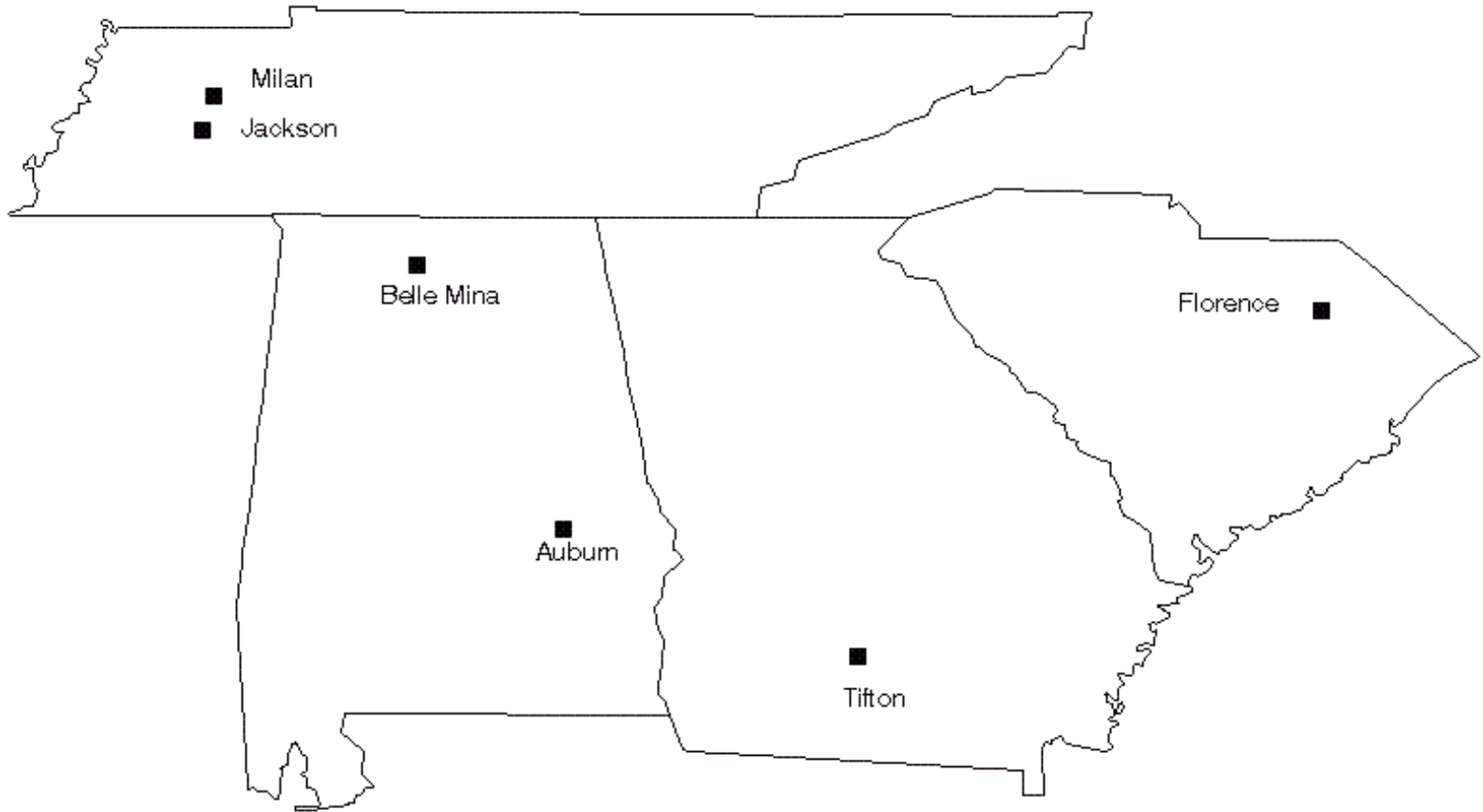
(B) NATIONAL STANDARD VARIETY



Eastern Region Test Results

Cooperators

Phil Hoskinson, Chairman
Shelby Baker
David Bransby
Lloyd May





1993 EASTERN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DELTAPINE 50	1074	A	5.29	36.8	10.6	123	1.13	0.55	194	8.1	4.78
DELTAPINE 5415	1071	A	4.87	39.0	9.2	129	1.13	0.55	216	7.4	5.01
HS46	1065	A	5.06	39.1	10.2	142	1.15	0.56	225	7.2	4.58
DES 119	1061	A	4.76	39.5	9.8	132	1.12	0.56	213	7.9	4.92
SUREGROW 501	1056	A	5.16	39.6	10.2	152	1.13	0.57	235	7.8	4.85
CB 1233	1049	A	5.04	38.2	10.1	137	1.12	0.55	217	6.8	4.84
STV LA 887	1029	A	6.08	40.1	11.4	142	1.14	0.56	227	7.5	4.52
GEORGIA KING	1028	A	5.14	41.7	10.3	133	1.11	0.54	216	6.9	4.84
DPL 5690	1023	B A	4.98	38.5	10.1	137	1.12	0.55	220	6.8	4.73
STONEVILLE 453	1021	B A	5.18	40.5	10.3	120	1.12	0.54	193	7.4	4.63
STV KC311	1012	B A	5.01	39.7	9.5	134	1.09	0.53	215	6.9	4.89
S-1001	1009	B A	5.13	37.9	10.1	141	1.13	0.55	225	6.7	4.74
CHEMBRED 407	1003	B A	5.23	38.6	10.0	138	1.12	0.55	223	6.6	4.85
DELTAPINE 90	998	B A	5.20	38.8	10.1	138	1.11	0.55	219	6.5	4.98
CHEMBRED CB 1135	984	B A	5.50	37.5	10.8	133	1.13	0.55	213	6.6	4.61
PD 3	929	B A	5.46	38.0	11.0	153	1.14	0.56	226	6.1	4.33
PAYMASTER HS 26	878	B	5.64	36.9	11.6	130	1.07	0.55	219	8.2	4.69
ACALA 1517-88	877	B	5.11	37.6	10.8	157	1.18	0.58	246	6.3	4.37

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL
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DELTAPINE 50	1.12	83.9	26.6	8.1	71.8	8.3	4.90	19.79	3.49	0.79
DELTAPINE 5415	1.12	83.6	28.7	7.7	72.5	8.4	5.12	18.23	3.35	0.70
HS46	1.14	83.4	31.0	7.7	70.8	8.5	4.57	19.98	3.55	0.77
DES 119	1.13	83.8	28.2	8.2	68.1	8.7	4.92	19.21	3.59	0.83
SUREGROW 501	1.11	84.0	31.1	8.2	69.3	8.5	4.87	18.53	3.57	0.93
CB 1233	1.12	83.6	29.1	7.4	71.3	8.7	4.82	20.41	3.58	0.76
STV LA 887	1.15	84.0	30.9	8.0	69.9	8.9	4.59	19.37	3.54	0.77
GEORGIA KING	1.11	82.9	29.8	8.0	68.5	8.0	4.75	19.12	3.66	0.68
DPL 5690	1.11	82.8	29.6	7.4	71.7	8.5	4.85	19.96	3.49	0.75
STONEVILLE 453	1.12	82.4	26.4	7.4	70.5	8.8	4.53	18.21	3.57	0.81
STV KC311	1.10	82.6	29.7	7.8	70.6	7.8	4.99	19.95	3.53	0.66
S-1001	1.12	83.2	31.0	7.4	71.8	8.9	4.71	19.88	3.55	0.83
CHEMBRED 407	1.11	83.0	30.5	7.3	71.8	8.6	4.85	20.46	3.58	0.76
DELTAPINE 90	1.10	82.9	30.2	7.3	70.9	8.5	4.89	20.87	3.57	0.82
CHEMBRED CB 1135	1.12	82.5	28.6	7.3	70.1	8.5	4.53	19.99	3.57	0.77
PD 3	1.13	83.1	30.1	7.4	71.6	8.6	4.37	20.34	3.52	0.77
PAYMASTER HS 26	1.08	83.5	28.7	7.9	70.3	8.2	4.78	20.63	3.58	0.79
ACALA 1517-88	1.17	83.5	33.1	7.5	70.5	8.4	4.27	20.10	3.77	0.61

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 50	414	33.0	1.81	81	55.09	5.17	2.92
DELTAPINE 5415
HS46
DES 119
SUREGROW 501
CB 1233
STV LA 887
GEORGIA KING
DPL 5690
STONEVILLE 453
STV KC311
S-1001
CHEMBRED 407
DELTAPINE 90	405	25.0	1.65	87	51.28	4.91	3.07
CHEMBRED CB 1135

PD 3	.	.	.	.	.	.	.
PAYMASTER HS 26	416	30.9	1.77	82	53.54	4.97	2.91
ACALA 1517-88	452	31.8	1.79	82	49.62	4.25	2.69





1993 EASTERN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT			SEED INDEX			LINT	
STV LA 887	6.08	A	GEORGIA KING	41.7			
A PAYMASTER HS 26	11.6		A				
PAYMASTER HS 26	5.64	B	STONEVILLE 453	40.5			
B STV LA 887	11.4		B A				
CHEMBRED CB 1135	5.50	C B	STV LA 887	40.1	C		
B PD 3	11.0		B C				
PD 3	5.46	C B D	STV KC311	39.7	C B		
D CHEMBRED CB 1135	10.8		D C				
DELTAPINE 50	5.29	EC B D	SUREGROW 501	39.6	EC B		
D ACALA 1517-88	10.8		D C				
CHEMBRED 407	5.23	EC D	DES 119	39.5	EC B		
D DELTAPINE 50	10.6		D C E				
DELTAPINE 90	5.20	EC F D	HS46	39.1	EC F		
D STONEVILLE 453	10.3		D F E				
STONEVILLE 453	5.18	EC F D	DELTAPINE 5415	39.0	ECGF		
D GEORGIA KING	10.3		D F E				
SUREGROW 501	5.16	EC F D	DELTAPINE 90	38.8	E GF		
D SUREGROW 501	10.2		F E				
GEORGIA KING	5.14	EC F D	CHEMBRED 407	38.6	EHGF		
D HS46	10.2		F E				
S-1001	5.13	EC F D	DPL 5690	38.5			
EHGF S-1001	10.1		F E				
ACALA 1517-88	5.11	EC F D	CB 1233	38.2			
HGF DELTAPINE 90	10.1		F E				
HS46	5.06	EC F D	PD 3	38.0	HGF		
I CB 1233	10.1		G F E				

1993 EASTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

CB 1233	5.04	E F D	S-1001	37.9	HG
I DPL 5690		10.1	G F E		
STV KC311	5.01	E F	ACALA 1517-88	37.6	H
I CHEMBRED 407		10.0	G F E		
DPL 5690	4.98	E F	CHEMBRED CB 1135	37.5	H
I DES 119		9.8	G F H		
DELTAPINE 5415	4.87	E F	PAYMASTER HS 26	36.9	
I STV KC311		9.5	G H		
DES 119	4.76	F	DELTAPINE 50	36.8	
I DELTAPINE 5415		9.2	H		

YARN TENACITY

FIBROGRAPH--2.5% S.

L. FIBROGRAPH--50% S. L.

ACALA 1517-88	157	A	ACALA 1517-88	1.18	
A ACALA 1517-88		0.58	A		
PD 3	153	A	HS46	1.15	
B SUREGROW 501		0.57	B A		
SUREGROW 501	152	A	PD 3	1.14	C
B PD 3		0.56	B C		
STV LA 887	142	B	STV LA 887	1.14	C
B STV LA 887		0.56	B C		
HS46	142	B	CHEMBRED CB 1135	1.13	C B
D DES 119		0.56	B C D		
S-1001	141	B	DELTAPINE 50	1.13	EC B
D HS46		0.56	B C D		
CHEMBRED 407	138	C B	S-1001	1.13	EC B
D DELTAPINE 90		0.55	E C D		
DELTAPINE 90	138	C B	DELTAPINE 5415	1.13	EC B
D DELTAPINE 50		0.55	E C D		
CB 1233	137	C B	SUREGROW 501	1.13	EC B
D CHEMBRED CB 1135		0.55	E C D		
DPL 5690	137	C B	DES 119	1.12	EC B
D S-1001		0.55	E C D		
STV KC311	134	C D	CHEMBRED 407	1.12	EC B
D PAYMASTER HS 26		0.55	EB C D		
CHEMBRED CB 1135	133	C D	DPL 5690	1.12	EC B
D CHEMBRED 407		0.55	EB C D		
GEORGIA KING	133	C D	CB 1233	1.12	EC B
D DPL 5690		0.55	EB C D		

1993 EASTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

DES 119	132	C D		STONEVILLE 453	1.12	EC
D DELTAPINE 5415		0.55	EB C D			
PAYMASTER HS 26	130	D		DELTAPINE 90	1.11	E
D CB 1233		0.55	EB C D			
DELTAPINE 5415	129	E D		GEORGIA KING	1.11	E
F GEORGIA KING		0.54	E F D			
DELTAPINE 50	123	E F		STV KC311	1.09	G
F STONEVILLE 453		0.54	E F			
STONEVILLE 453	120	F		PAYMASTER HS 26	1.07	
G STV KC311		0.53	F			

 STELOMETER - T1

 STELOMETER -

E1 MICRONAIRE

ACALA 1517-88	246	A		PAYMASTER HS 26	8.2	
A DELTAPINE 5415		5.01		A		
SUREGROW 501	235	B		DELTAPINE 50	8.1	
A DELTAPINE 90		4.98	B A			
STV LA 887	227	C B		DES 119	7.9	B
A DES 119		4.92	B A C			
PD 3	226	C B D		SUREGROW 501	7.8	B A
C STV KC311		4.89	DB A C			
S-1001	225	C E D		STV LA 887	7.5	B D
C CHEMBRED 407		4.85	DB A C			
HS46	225	C E D		STONEVILLE 453	7.4	B D
C SUREGROW 501		4.85	DB A C			
CHEMBRED 407	223	FC E D		DELTAPINE 5415	7.4	E D
C GEORGIA KING		4.84	DB A C			
DPL 5690	220	FC E D		HS46	7.2	E D
F CB 1233		4.84	DB A C			
DELTAPINE 90	219	FC E D		STV KC311	6.9	E G
F DELTAPINE 50		4.78	DBEA C			
PAYMASTER HS 26	219	FC E D		GEORGIA KING	6.9	E G
F S-1001		4.74	DBEA C			
CB 1233	217	F E D		CB 1233	6.8	G
F DPL 5690		4.73	DBEA C			
GEORGIA KING	216	F E D		DPL 5690	6.8	G
F PAYMASTER HS 26		4.69	DBE C			
DELTAPINE 5415	216	F E		S-1001	6.7	H G
F STONEVILLE 453		4.63	D EF C			

1993 EASTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

STV KC311	215	F E		CHEMBRED CB 1135	6.6	H
G	CHEMBRED CB 1135	4.61	DGEF			
CHEMBRED CB 1135	213	F		CHEMBRED 407	6.6	H G
I	HS46	4.58	DGEF			
DES 119	213	F		DELTAPINE 90	6.5	H G
I	STV LA 887	4.52	GEF			
DELTAPINE 50	194	G		ACALA 1517-88	6.3	H
I	ACALA 1517-88	4.37	G F			
STONEVILLE 453	193	G		PD 3	6.1	
I	PD 3	4.33	G			

 2.5% S.L. (INCHES)
 (PERCENT)

 UR
 STRENGTH (G/TEX)

ACALA 1517-88	1.17	A		STV LA 887	84.0	
A	ACALA 1517-88	33.1		A		
STV LA 887	1.15	B A		SUREGROW 501	84.0	B
A	SUREGROW 501	31.1		B		
HS46	1.14	B C		DELTAPINE 50	83.9	B
A	S-1001	31.0		B		
PD 3	1.13	B C D		DES 119	83.8	B A
C	HS46	31.0	B			
DES 119	1.13	EB C D		DELTAPINE 5415	83.6	DB A
C	STV LA 887	30.9	C B			
DELTAPINE 50	1.12	EB C D		CB 1233	83.6	DB A
C	CHEMBRED 407	30.5	C B D			
CB 1233	1.12	EB C D		ACALA 1517-88	83.5	DBEA
C	DELTAPINE 90	30.2	EC B D			
STONEVILLE 453	1.12	E C D		PAYMASTER HS 26	83.5	DBEA
C	PD 3	30.1	EC B D			
CHEMBRED CB 1135	1.12	E C D		HS46	83.4	DBEA
C	GEORGIA KING	29.8	ECFB D			
S-1001	1.12	E C D		S-1001	83.2	
DBEAF C	STV KC311	29.7		ECFB D		
DELTAPINE 5415	1.12	E C D		PD 3	83.1	DBE
FC	DPL 5690	29.6	ECFB D			
CHEMBRED 407	1.11	E D		CHEMBRED 407	83.0	DBE
FC	CB 1233	29.1	ECF D			
DPL 5690	1.11	E D		GEORGIA KING	82.9	D E
FC	PAYMASTER HS 26	28.7	E F D			

1993 EASTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

GEORGIA KING	1.11	E	D	DELTAPINE 90	82.9	D E
FC	DELTAPINE 5415	28.7	E F	D		
SUREGROW 501	1.11	E	D	DPL 5690	82.8	D E
F	CHEMBRED CB 1135	28.6	E F			
DELTAPINE 90	1.10	E	D	STV KC311	82.6	E
F	DES 119	28.2	FG			
STV KC311	1.10	E	F	CHEMBRED CB 1135	82.5	
F	DELTAPINE 50	26.6	H G			
PAYMASTER HS 26	1.08	F		STONEVILLE 453	82.4	
F	STONEVILLE 453	26.4	H			

 E
 Rd
 COLORIMETER - b

SUREGROW 501	8.2	A	DELTAPINE 5415	72.5	
A	STV LA 887	8.9	A		
DES 119	8.2	B A	DELTAPINE 50	71.8	B
A	S-1001	8.9	A		
DELTAPINE 50	8.1	B A	S-1001	71.8	B
A	STONEVILLE 453	8.8	B A		
GEORGIA KING	8.0	B A C	CHEMBRED 407	71.8	B
A	DES 119	8.7	B A		
STV LA 887	8.0	B A C	DPL 5690	71.7	B
A	CB 1233	8.7	B A		
PAYMASTER HS 26	7.9	B A C	PD 3	71.6	B A
C	PD 3	8.6	B A C		
STV KC311	7.8	DB A C	CB 1233	71.3	B A
C	CHEMBRED 407	8.6	B A C		
DELTAPINE 5415	7.7	DB E C	DELTAPINE 90	70.9	DB A
C	DELTAPINE 90	8.5	DB A C		
HS46	7.7	D E C	HS46	70.8	DB A
C	HS46	8.5	DB A C		
ACALA 1517-88	7.5	D E	STV KC311	70.6	DB
C	SUREGROW 501	8.5	DB A C		
DPL 5690	7.4	D E	STONEVILLE 453	70.5	DB
C	CHEMBRED CB 1135	8.5	DB A C		
CB 1233	7.4	D E	ACALA 1517-88	70.5	DB
C	DPL 5690	8.5	DB A C		
PD 3	7.4	D E	PAYMASTER HS 26	70.3	DB
C	ACALA 1517-88	8.4	DB A C		

1993 EASTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

STONEVILLE 453	7.4	D E	CHEMBRED CB 1135	70.1	DB
C DELTAPINE 5415	8.4	DB A C			
S-1001	7.4	E	STV LA 887	69.9	D E
C DELTAPINE 50	8.3	DB C			
CHEMBRED 407	7.3	E	SUREGROW 501	69.3	DF
E PAYMASTER HS 26	8.2	D E C			
DELTAPINE 90	7.3	E	GEORGIA KING	68.5	F
E GEORGIA KING	8.0	D E			
CHEMBRED CB 1135	7.3	E	DES 119	68.1	
F STV KC311	7.8		E		

 MICRONAIRE (SL-HVI)
 (PERCENT)

 OIL
 NITROGEN (PERCENT)

DELTAPINE 5415	5.12	A	DELTAPINE 90	20.87	
A Acala 1517-88	3.77		A		
STV KC311	4.99	B A	PAYMASTER HS 26	20.63	B
A GEORGIA KING	3.66	B A	A		
DES 119	4.92	B A C	CHEMBRED 407	20.46	B
A DES 119	3.59	B C			
DELTAPINE 50	4.90	DB A C	CB 1233	20.41	B
A PAYMASTER HS 26	3.58	B C			
DELTAPINE 90	4.89	DB A C	PD 3	20.34	B A
C CHEMBRED 407	3.58	B C			
SUREGROW 501	4.87	DBEA C	ACALA 1517-88	20.10	DB A
C CB 1233	3.58	B C			
CHEMBRED 407	4.85	DBEA C	CHEMBRED CB 1135	19.99	DB A
C DELTAPINE 90	3.57	B C			
DPL 5690	4.85	DBEA C	HS46	19.98	DB A
C STONEVILLE 453	3.57	B C			
CB 1233	4.82	DBEA C	DPL 5690	19.96	DB A
C CHEMBRED CB 1135	3.57	B C			
PAYMASTER HS 26	4.78	DBEA C	STV KC311	19.95	DB A
C SUREGROW 501	3.57	B C			
GEORGIA KING	4.75	DBE C	S-1001	19.88	DB A
C S-1001	3.55	B C			
S-1001	4.71	DBE C	DELTAPINE 50	19.79	DB
C HS46	3.55	B C			
STV LA 887	4.59	D EF C	STV LA 887	19.37	D E

1993 EASTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

C	STV LA 887	3.54	B C		
HS46		4.57	D EF	DES 119	19.21 D
E	STV KC311	3.53	B C		
STONEVILLE 453		4.53	EF	GEORGIA KING	19.12 DF
E	PD 3	3.52	B C		
CHEMBRED CB 1135		4.53	EF	SUREGROW 501	18.53 F
E	DELTAPINE 50	3.49	C		
PD 3		4.37	F	DELTAPINE 5415	18.23
F	DPL 5690	3.49		C	
ACALA 1517-88		4.27	F	STONEVILLE 453	18.21
F	DELTAPINE 5415	3.35		D	

 FREE GOSSYPOL (PERCENT)

SUREGROW 501	0.93	A
DES 119	0.83	B A
S-1001	0.83	B A
DELTAPINE 90	0.82	B A
STONEVILLE 453	0.81	B A C
PAYMASTER HS 26	0.79	B D C
DELTAPINE 50	0.79	B D C
PD 3	0.77	B D C
CHEMBRED CB 1135	0.77	B D C
HS46	0.77	B D C
STV LA 887	0.77	B D C
CHEMBRED 407	0.76	B D C
CB 1233	0.76	B D C
DPL 5690	0.75	B D C
DELTAPINE 5415	0.70	EB D C
GEORGIA KING	0.68	E D C
STV KC311	0.66	E D
ACALA 1517-88	0.61	E

 AREALOMETER - A (mm²/mm³)

mm³) AREALOMETER - I

 AREALOMETER - D (mm²/

ACALA 1517-88	452	A	DELTAPINE 50	33.0
A	DELTAPINE 50	1.8	A	

PAYMASTER HS 26	416	B	ACALA 1517-88	31.8
A	ACALA 1517-88	1.8	A	
DELTAPINE 50	414	B	PAYMASTER HS 26	30.9
A	PAYMASTER HS 26	1.8	A	
DELTAPINE 90	405	B	DELTAPINE 90	25.0
B	DELTAPINE 90	1.7	B	

AREALOMETER - M (PERCENT)
(Microns)

AREALOMETER -w (MG/INCH)

AREALOMETER - p

DELTAPINE 90	87	A
A	DELTAPINE 50	5.17
PAYMASTER HS 26	82	B
A	PAYMASTER HS 26	4.97
ACALA 1517-88	82	B
B	DELTAPINE 90	4.91
DELTAPINE 50	81	B
B	ACALA 1517-88	4.25

DELTAPINE 50	55.09
A	
PAYMASTER HS 26	53.54
A	
DELTAPINE 90	51.28
A	
ACALA 1517-88	49.62
B	

AREALOMETER - t (MICRONS)

DELTAPINE 90	3.07	A
DELTAPINE 50	2.92	A
PAYMASTER HS 26	2.91	A
ACALA 1517-88	2.69	B





1993 EASTERN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
TIFTON, GA	1255	A	4.96	41.6	9.8	135	1.13	0.56	219	6.5	4.87
JACKSON, TN	1101	B	5.48	36.0	10.8	152	1.18	0.58	233	6.3	4.25
AUBURN, AL	1076	B	5.06	36.6	10.2	135	1.14	0.56	216	7.1	4.18
FLORENCE, SC	922	C	4.87	40.9	10.0	135	1.07	0.54	208	8.2	5.17
MILAN, TN	849	D	5.84	34.9	11.6	.	.	.	.	.	.
BELLE MINA, AL	842	D	5.20	41.5	9.8	131	1.11	0.54	221	7.2	5.12

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
TIFTON, GA	1.14	82.4	28.9	9.7	75.4	8.0	4.86	20.85	3.32	0.97
JACKSON, TN	1.17	85.2	30.6	5.7	69.6	12	4.31	19.96	3.37	0.92
AUBURN, AL	1.13	83.2	30.3	6.6	68.3	7.0	4.16	18.38	3.40	0.68
FLORENCE, SC	1.09	83.0	30.9	10.2	73.8	8.5	5.22	20.32	3.90	0.67
MILAN, TN	.	.	.	.	.	.	.	.	.	.
BELLE MINA, AL	1.09	82.8	27.5	5.8	66.2	7.7	5.08	19.16	3.78	0.62

LOCATION	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
TIFTON, GA	410	27.0	1.70	85	51.99	4.90	3.0
JACKSON, TN	445	35.0	1.85	79	52.45	4.57	2.7
AUBURN, AL	450	37.4	1.90	78	53.20	4.60	2.7
FLORENCE, SC	396	23.6	1.63	88	51.77	5.07	3.1
MILAN, TN	.	.	.	.	.	.	.
BELLE MINA, AL	408	27.9	1.71	85	52.50	5.00	3.0





1993 EASTERN REGIONAL COTTON VARIETY TEST

VARIETIES BY LOCATIONS

JACKSON, TN

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DELTAPINE 5415	1243	A	5.35	36.4	10.2	146	1.18	0.56	237	5.6	4.40
S-1001	1217	B A	5.38	35.9	10.5	157	1.17	0.57	240	5.6	4.15
HS46	1194	B A C	5.31	36.3	10.5	161	1.17	0.57	231	6.1	4.05
CHEMBRED CB 1135	1164	DB A C	5.88	35.5	11.3	148	1.17	0.56	224	5.8	4.20
DPL 5690	1156	DB A C	5.15	36.6	10.7	144	1.19	0.58	215	6.8	4.25
STONEVILLE 453	1155	DB A C	5.81	38.5	11.3	132	1.17	0.57	204	6.8	4.35
DES 119	1130	DBEA C	5.04	36.9	9.1	143	1.17	0.58	223	6.8	4.45
CB 1233	1119	DBEA C	5.29	35.6	10.4	151	1.16	0.57	229	6.1	4.45
DELTAPINE 50	1073	DBE C	5.49	33.1	11.5	137	1.17	0.57	204	7.9	4.50
PAYMASTER HS 26	1064	DBE C	6.26	35.7	12.7	142	1.13	0.58	230	7.4	4.25
SUREGROW 501	1045	D E C	5.33	36.2	10.9	172	1.22	0.62	266	6.6	4.25
STV LA 887	1037	D E	6.26	36.2	12.2	158	1.23	0.60	250	6.6	3.85
CHEMBRED 407	1023	D E	5.31	36.3	10.4	154	1.16	0.57	238	5.5	4.45
PD 3	1020	D E	5.42	35.2	10.9	168	1.19	0.59	248	5.8	3.85
ACALA 1517-88	987	E	5.33	35.8	11.0	170	1.21	0.60	262	5.8	4.15
DELTAPINE 90	986	E	5.09	35.3	10.3	151	1.15	0.57	233	6.4	4.45

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
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DELTAPINE 5415	1.16	84.6	31.2	5.3	70.5	12	4.35	20.24	3.23	0.93
S-1001	1.17	84.8	32.4	5.4	69.7	12	4.20	19.99	3.45	0.93
HS46	1.19	84.9	32.2	5.6	68.8	11	4.05	19.82	3.39	0.91
CHEMBRED CB 1135	1.19	84.3	29.6	5.8	69.4	11	4.05	20.53	3.30	0.90
DPL 5690	1.19	86.3	29.2	6.3	68.7	11	4.30	19.62	3.24	1.02
STONEVILLE 453	1.17	84.5	26.4	5.4	69.8	12	4.40	19.14	3.35	0.94
DES 119	1.18	85.8	28.5	5.8	70.1	12	4.60	18.81	3.34	0.88
CB 1233	1.16	85.2	29.5	5.3	69.8	12	4.55	20.84	3.42	0.90
DELTAPINE 50	1.16	85.6	28.0	6.2	70.5	12	4.40	19.88	3.29	0.94
PAYMASTER HS 26	1.12	85.7	28.8	6.5	69.5	11	4.55	21.10	3.45	0.95
SUREGROW 501	1.19	86.4	32.9	6.1	69.2	12	4.35	18.39	3.48	0.97
STV LA 887	1.24	86.7	33.3	6.5	68.9	11	4.10	19.37	3.21	0.88
CHEMBRED 407	1.14	84.2	30.0	5.1	69.9	12	4.50	20.52	3.40	0.92
PD 3	1.19	85.3	32.1	5.8	70.0	12	3.95	21.10	3.31	1.01
ACALA 1517-88	1.23	85.1	34.9	5.6	69.5	11	4.05	19.35	3.65	0.76
DELTAPINE 90	1.14	84.1	30.3	5.3	70.2	12	4.50	20.66	3.41	0.93

VARIETY	Arealometer Data						
	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 5415	.	.	.	.	.	.	.
S-1001	.	.	.	.	.	.	.
HS46	.	.	.	.	.	.	.
CHEMBRED CB 1135	.	.	.	.	.	.	.
DPL 5690	.	.	.	.	.	.	.
STONEVILLE 453	.	.	.	.	.	.	.
DES 119	.	.	.	.	.	.	.
CB 1233	.	.	.	.	.	.	.
DELTAPINE 50	439	38.0	1.91	77	54.66	4.81	2.7
PAYMASTER HS 26	433	34.3	1.84	80	53.46	4.78	2.8
SUREGROW 501	.	.	.	.	.	.	.
STV LA 887	.	.	.	.	.	.	.
CHEMBRED 407	.	.	.	.	.	.	.
PD 3	.	.	.	.	.	.	.
ACALA 1517-88	469	36.0	1.87	79	50.14	4.13	2.6
DELTAPINE 90	438	31.8	1.80	82	51.55	4.55	2.8





1993 EASTERN REGIONAL COTTON VARIETY TEST

VARIETIES BY LOCATIONS

AUBURN, AL

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DELTAPINE 50	1387	A	5.65	35.2	9.3	122	1.17	0.55	189	8.0	4.45
DELTAPINE 90	1268	B A	5.32	39.4	9.7	131	1.12	0.54	209	6.4	4.55
HS46	1218	B A C	4.94	38.2	10.1	135	1.18	0.56	220	6.8	4.25
DES 119	1200	B A C	4.80	38.3	10.2	135	1.15	0.56	216	7.8	4.55
CB 1233	1181	DB A C	4.42	36.0	10.2	137	1.15	0.57	214	6.5	4.50
DELTAPINE 5415	1127	DB A C	4.86	36.7	8.9	123	1.12	0.55	206	7.4	4.70
CHEMBRED 407	1119	DB A C	4.96	36.2	9.8	138	1.15	0.57	218	6.5	4.45
GEORGIA KING	1100	DB A C	4.83	36.5	10.8	134	1.14	0.56	218	7.5	4.05
STV LA 887	1098	DB A C	6.16	38.0	11.6	147	1.17	0.57	224	7.8	3.50
SUREGROW 501	1074	DB A C	4.60	37.9	10.1	152	1.15	0.57	220	8.3	4.25
STONEVILLE 453	1066	DB A C	5.06	38.0	9.7	126	1.13	0.53	201	7.4	3.70
PAYMASTER HS 26	1059	DB A C	4.81	36.1	11.5	124	1.10	0.58	213	8.4	4.60
STV KC311	986	DB C	5.08	36.6	10.0	134	1.09	0.53	214	7.3	4.25
DPL 5690	949	DB C	4.85	35.3	10.5	134	1.15	0.56	237	6.4	4.00
CHEMBRED CB 1135	938	DB C	5.26	34.6	10.6	127	1.13	0.55	207	6.4	4.15
ACALA 1517-88	924	D C	4.72	35.4	10.9	157	1.19	0.58	253	6.1	3.70
S-1001	848	D	5.30	35.2	10.2	130	1.13	0.55	216	7.1	4.00
PD 3	845	D	5.41	35.7	10.5	143	1.15	0.57	223	6.4	3.65

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL
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DELTAPINE 50	1.16	84.2	27.1	7.4	69.9	6.4	4.45	19.73	3.44	0.74
DELTAPINE 90	1.12	83.3	30.4	6.4	67.9	6.6	4.25	20.58	3.46	0.70
HS46	1.18	84.3	32.1	6.7	69.5	7.0	4.15	19.48	3.55	0.68
DES 119	1.15	84.1	29.1	7.2	62.6	6.8	4.50	19.21	3.55	0.85
CB 1233	1.14	84.3	30.3	6.4	68.9	7.1	4.30	19.58	3.47	0.74
DELTAPINE 5415	1.12	83.3	26.7	6.7	70.9	6.9	5.05	16.38	3.15	0.63
CHEMBRED 407	1.12	82.7	32.3	6.3	69.3	7.0	4.40	18.89	3.44	0.67
GEORGIA KING	1.15	83.5	31.9	6.7	65.5	7.4	4.00	17.94	3.16	0.56
STV LA 887	1.16	83.4	32.8	7.2	68.7	7.4	3.55	16.79	3.39	0.73
SUREGROW 501	1.13	83.7	30.2	7.3	67.5	6.7	4.30	17.48	3.44	0.85
STONEVILLE 453	1.13	82.4	30.2	7.1	69.2	7.7	3.45	16.18	3.45	0.75
PAYMASTER HS 26	1.08	83.9	27.3	7.2	67.7	6.5	4.70	20.34	3.50	0.73
STV KC311	1.10	82.5	28.7	6.2	66.5	7.3	4.70	18.19	3.18	0.63
DPL 5690	1.13	83.6	30.5	6.2	71.0	6.9	4.25	17.47	3.37	0.59
CHEMBRED CB 1135	1.11	82.5	28.1	6.1	66.2	7.2	4.00	17.95	3.41	0.61
ACALA 1517-88	1.14	82.9	34.6	6.4	68.6	6.8	3.55	19.17	3.74	0.56
S-1001	1.09	82.5	31.4	6.2	71.3	7.7	3.90	17.74	3.30	0.63
PD 3	1.12	81.6	32.5	6.3	69.1	7.4	3.45	17.84	3.29	0.63

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 50	445	40.8	1.96	75	55.41	4.81	2.7
DELTAPINE 90	430	31.5	1.79	82	52.37	4.71	2.8
HS46
DES 119
CB 1233
DELTAPINE 5415
CHEMBRED 407
GEORGIA KING
STV LA 887
SUREGROW 501
STONEVILLE 453
PAYMASTER HS 26	423	34.3	1.84	80	54.71	4.99	2.8
STV KC311
DPL 5690
CHEMBRED CB 1135

ACALA 1517-88	500	43.0	2.00	74	50.33	3.91	2.4
S-1001	.	.	.	.	.	.	.
PD 3	.	.	.	.	.	.	.





1993 EASTERN REGIONAL COTTON VARIETY TEST

VARIETIES BY LOCATIONS

TIFTON, GA

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
SUREGROW 501	1437	A	5.11	43.8	9.1	149	1.11	0.57	233	7.0	5.05
DES 119	1364	B A	4.55	42.3	10.0	130	1.13	0.57	213	7.8	5.05
STV LA 887	1360	B A	6.17	43.9	10.9	141	1.13	0.56	216	6.8	4.85
DELTAPINE 5415	1358	B A	4.38	42.2	8.3	129	1.15	0.57	218	7.3	5.15
DELTAPINE 90	1331	B A	4.78	40.9	9.5	134	1.14	0.57	221	5.8	5.05
HS46	1331	B A	4.49	41.6	9.7	146	1.18	0.57	230	7.0	4.70
GEORGIA KING	1310	B C	5.36	44.1	10.1	135	1.13	0.56	216	6.0	5.00
S-1001	1297	B C	4.96	41.0	9.3	139	1.13	0.55	229	5.9	5.10
CB 1233	1289	B C	4.60	41.2	9.5	137	1.15	0.56	217	6.4	4.70
STV KC311	1274	B C	4.72	41.5	9.2	137	1.10	0.54	217	6.1	4.95
CHEMBRED 407	1273	B C	4.67	41.9	9.2	136	1.12	0.56	221	6.1	4.80
DPL 5690	1253	B C D	4.72	40.8	9.1	133	1.13	0.55	224	6.4	4.70
DELTAPINE 50	1250	B C D	5.28	40.1	10.2	118	1.14	0.55	193	7.5	4.85
CHEMBRED CB 1135	1204	E C D	5.08	41.1	10.6	128	1.14	0.55	207	6.0	4.80
STONEVILLE 453	1153	E D	4.90	42.9	10.3	117	1.13	0.55	191	6.9	4.70
PD 3	1103	E	4.96	40.8	10.1	146	1.13	0.56	221	5.1	4.55
PAYMASTER HS 26	999	F	5.60	38.5	11.4	130	1.07	0.56	218	7.5	4.90
ACALA 1517-88	995	F	5.08	39.9	10.9	156	1.19	0.59	249	5.8	4.70

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL
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PD 3
PAYMASTER HS 26	409	28.8	1.74	84	53.24	5.04	3.0
ACALA 1517-88	425	27.0	1.70	85	50.30	4.58	2.9





1993 EASTERN REGIONAL COTTON VARIETY TEST

VARIETIES BY LOCATIONS

FLORENCE, SC

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
CHEMBRED 407	1061	A	5.05	41.2	9.8	134	1.07	0.55	213	8.3	5.30
CB 1233	1051	A	4.83	41.0	9.7	133	1.08	0.54	204	8.1	5.30
DES 119	1048	A	4.58	42.6	9.9	131	1.07	0.53	194	9.1	5.40
DELTAPINE 5415	1042	A	4.63	40.8	8.6	128	1.11	0.55	201	9.0	5.30
S-1001	1036	A	4.57	40.0	9.7	143	1.08	0.54	212	8.0	5.15
CHEMBRED CB 1135	998	A	5.18	40.3	10.3	133	1.10	0.56	212	8.0	5.20
DPL 5690	990	A	4.67	41.2	9.0	138	1.05	0.54	198	7.8	5.30
STV LA 887	989	A	5.73	43.3	11.2	137	1.08	0.54	219	8.6	5.20
HS46	944	B A	4.73	40.8	9.8	137	1.09	0.55	217	8.5	4.90
DELTAPINE 90	923	B A	4.68	41.2	9.8	141	1.06	0.54	215	7.5	5.35
STV KC311	910	B A	4.54	40.2	9.4	140	1.05	0.53	211	7.5	4.95
SUREGROW 501	887	B A	4.78	41.9	9.6	146	1.08	0.56	227	8.9	5.25
DELTAPINE 50	873	B A	4.98	39.4	10.6	122	1.07	0.54	188	8.8	5.30
GEORGIA KING	847	B A	4.89	43.0	10.3	132	1.04	0.51	209	7.4	5.20
STONEVILLE 453	843	B A	4.90	43.2	9.7	113	1.05	0.53	182	8.4	5.25
PD 3	833	B A	4.88	39.9	10.5	147	1.12	0.56	203	7.1	4.75
ACALA 1517-88	741	B C	4.78	38.7	10.9	153	1.14	0.56	225	7.5	4.80
PAYMASTER HS 26	586	C	5.37	38.5	10.9	124	0.99	0.52	210	9.3	5.10

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL
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PD 3
ACALA 1517-88	422	20.5	1.56	91	46.47	4.25	3.0
PAYMASTER HS 26	390	23.5	1.62	88	52.34	5.18	3.2





1993 EASTERN REGIONAL COTTON VARIETY TEST

VARIETIES BY LOCATIONS

BELLE MINA, AL

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
SUREGROW 501	1001	A	5.63	42.6	9.9	144	1.09	0.53	229	8.1	5.45
DPL 5690	952	B A	5.33	41.2	9.9	135	1.10	0.54	227	6.8	5.40
STONEVILLE 453	951	B A	4.63	44.7	9.5	113	1.10	0.52	186	7.8	5.15
DELTAPINE 50	943	B A C	4.38	40.6	10.3	117	1.11	0.54	198	8.1	4.80
DELTAPINE 5415	894	DB A C	4.31	42.8	8.3	119	1.11	0.54	217	7.6	5.50
HS46	894	DB A C	5.27	42.4	9.9	131	1.12	0.54	225	7.6	5.00
STV KC311	876	DB A C	5.72	40.5	9.4	127	1.10	0.53	220	6.8	5.40
STV LA 887	869	DBEA C	6.10	43.4	11.0	129	1.10	0.54	227	7.5	5.20
S-1001	865	DBEA C	4.99	41.3	9.8	136	1.12	0.55	227	7.0	5.30
GEORGIA KING	854	DBEA C	5.48	43.4	9.9	131	1.12	0.55	221	6.8	5.10
CB 1233	851	DBEA C	5.41	41.1	9.6	129	1.08	0.53	219	7.0	5.25
CHEMBRED 407	805	DBEF C	5.62	41.4	9.4	129	1.12	0.54	225	6.5	5.25
CHEMBRED CB 1135	805	DBEF C	5.57	38.9	10.5	130	1.13	0.54	217	6.9	4.70
DES 119	798	D EF C	4.42	42.5	9.3	122	1.11	0.55	220	8.1	5.15
ACALA 1517-88	745	D EF	4.85	41.4	9.6	152	1.17	0.56	241	6.3	4.50
DELTAPINE 90	722	EF	5.32	40.9	9.8	132	1.09	0.53	217	6.6	5.50
PAYMASTER HS 26	677	F	5.03	38.7	9.9	131	1.05	0.54	223	8.4	4.60
PD 3	662	F	5.47	39.6	10.7	160	1.11	0.54	238	6.1	4.85

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL
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SUREGROW 501	1.10	83.6	27.6	6.6	63.2	7.6	5.30	17.60	3.84	0.94
DPL 5690	1.04	80.9	26.5	5.0	66.8	7.7	5.55	20.54	3.76	0.63
STONEVILLE 453	1.11	82.0	25.1	5.4	65.2	7.6	4.90	18.36	3.74	0.79
DELTAPINE 50	1.09	84.0	25.7	6.7	66.9	7.5	5.00	18.52	3.68	0.69
DELTAPINE 5415	1.10	83.8	26.7	6.1	68.4	7.3	5.55	16.42	3.44	0.39
HS46	1.11	82.6	28.9	6.1	66.7	7.7	4.95	18.86	3.75	0.62
STV KC311	1.10	83.1	28.0	5.4	65.8	7.2	5.35	20.08	3.76	0.35
STV LA 887	1.10	83.4	28.3	6.5	64.5	8.5	5.15	19.54	3.85	0.51
S-1001	1.12	83.4	28.6	5.7	67.1	8.0	5.25	19.77	3.80	0.86
GEORGIA KING	1.09	82.7	27.6	5.8	63.2	7.4	4.90	18.06	3.92	0.65
CB 1233	1.07	82.7	26.4	5.7	66.9	8.3	5.15	19.60	3.83	0.48
CHEMBRED 407	1.07	82.5	27.4	5.6	69.1	8.4	5.15	19.92	3.82	0.50
CHEMBRED CB 1135	1.10	82.4	27.2	5.2	65.5	7.4	4.95	19.52	3.74	0.67
DES 119	1.07	81.7	26.4	6.8	62.6	8.0	5.15	18.59	3.93	0.69
ACALA 1517-88	1.14	83.0	32.1	5.9	66.4	7.9	4.20	19.60	3.80	0.55
DELTAPINE 90	1.06	82.5	27.8	5.2	68.7	7.7	5.35	20.05	3.81	0.79
PAYMASTER HS 26	1.05	83.5	27.3	6.1	65.8	7.4	4.65	19.74	3.66	0.75
PD 3	1.11	82.9	28.5	5.7	69.3	7.9	4.90	20.14	3.95	0.43

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
SUREGROW 501
DPL 5690
STONEVILLE 453
DELTAPINE 50	400	29.5	1.74	84	54.46	5.26	3.1
DELTAPINE 5415
HS46
STV KC311
STV LA 887
S-1001
GEORGIA KING
CB 1233
CHEMBRED 407
CHEMBRED CB 1135
DES 119
ACALA 1517-88	446	32.3	1.81	81	50.87	4.41	2.7

DELTAPINE 90	360	16.0	1.46	95	50.74	5.44	3.6
PAYMASTER HS 26	427	33.8	1.83	80	53.95	4.89	2.8
PD 3	.	.	.	.	.	.	.





1993 EASTERN REGIONAL COTTON VARIETY TEST

VARIETIES BY LOCATIONS

MILAN, TN

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
PD 3	1112	A	6.65	36.9	13.3	.	.	.	.	.	.
STONEVILLE 453	957	B A	5.81	36.0	11.3	.	.	.	.	.	.
DELTAPINE 50	917	B C	5.95	32.8	12.0	.	.	.	.	.	.
SUREGROW 501	894	B C	5.51	35.4	11.9	.	.	.	.	.	.
PAYMASTER HS 26	886	B C	6.76	34.0	13.1	.	.	.	.	.	.
ACALA 1517-88	872	B C	5.90	34.2	11.7	.	.	.	.	.	.
DPL 5690	837	B C	5.15	35.7	11.3	.	.	.	.	.	.
DES 119	823	B C	5.20	34.5	10.1	.	.	.	.	.	.
STV LA 887	820	B C	6.04	35.9	11.9	.	.	.	.	.	.
HS46	809	B C	5.65	35.4	11.4	.	.	.	.	.	.
CB 1233	801	B C	5.72	34.2	11.2	.	.	.	.	.	.
CHEMBRED CB 1135	795	B C	6.01	34.4	11.7	.	.	.	.	.	.
S-1001	792	B C	5.60	34.0	11.5	.	.	.	.	.	.
DELTAPINE 5415	776	B C	5.72	35.4	11.2	.	.	.	.	.	.
DELTAPINE 90	757	C	5.99	34.9	11.6	.	.	.	.	.	.
CHEMBRED 407	736	C	5.76	34.7	11.5	.	.	.	.	.	.

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
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Delta Region Test Results

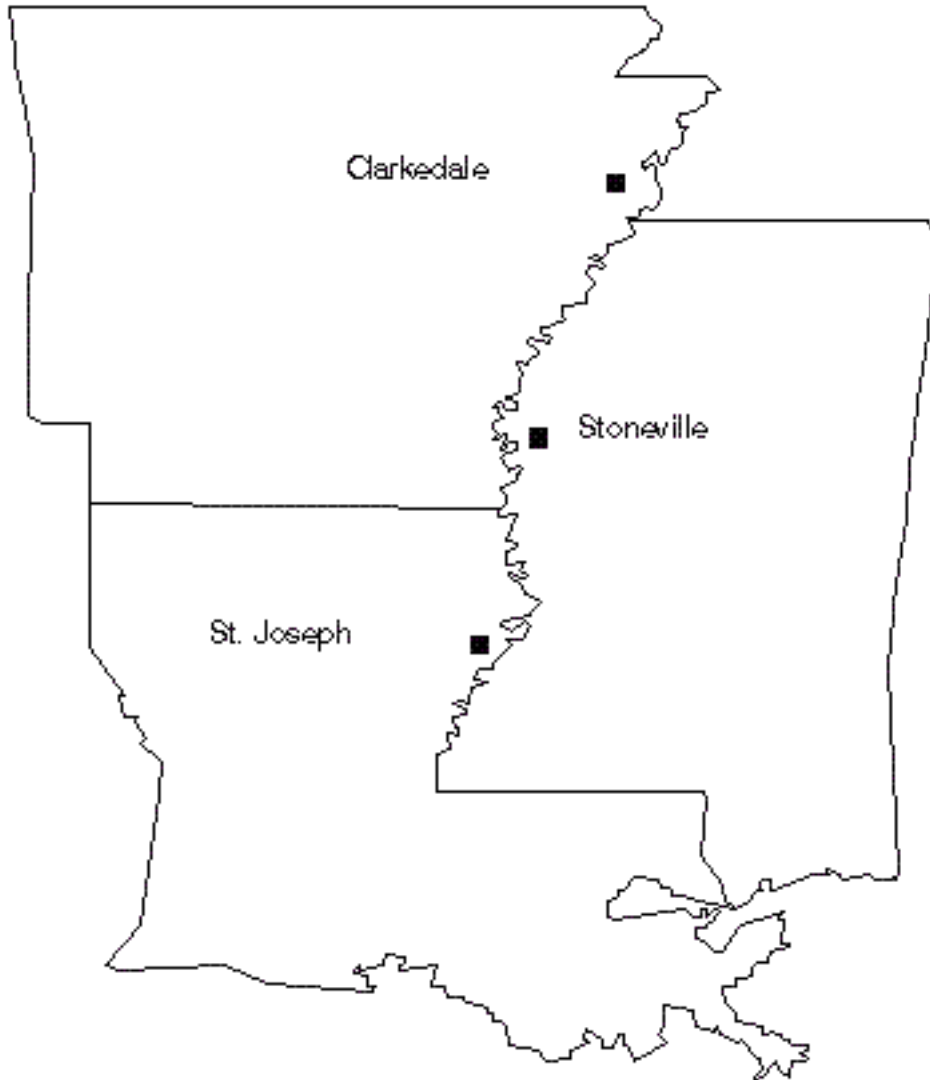
Cooperators

Fred Bourland, Chairman

Dave Albers

Steve Calhoun

David Caldwell







1993 DELTA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
STONEVILLE 453	1023	A	4.70	38.1	124	1.14	0.55	194	7.0	4.43
STV LA 887	1005	B A	4.62	38.7	148	1.18	0.57	233	7.0	4.38
DELTAPINE 20	989	B A C	4.79	37.3	122	1.12	0.54	192	7.4	4.52
DELTAPINE 50	951	DB A C	4.79	35.4	124	1.15	0.54	191	7.5	4.55
DES 119	916	DB A C	4.43	37.0	137	1.14	0.55	214	7.4	4.47
DELTAPINE 5415	899	DB A C	4.43	38.4	124	1.13	0.55	210	6.9	4.97
CB 1233	867	DB C	4.51	38.0	144	1.13	0.54	226	6.4	4.70
PAYMASTER HS 26	849	D C	4.70	35.0	139	1.11	0.56	225	7.5	4.75
ACALA 1517-88	833	D	4.68	35.9	167	1.18	0.57	263	5.6	4.20
DELTAPINE 90	818	D	4.36	36.4	141	1.14	0.55	221	6.1	4.73

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
STONEVILLE 453	1.12	82.5	28.1	8.2	72.9	8.2	4.42	18.19	3.23	0.83
STV LA 887	1.18	84.2	31.6	8.9	71.7	8.2	4.27	19.11	3.30	0.79
DELTAPINE 20	1.11	83.1	26.5	8.7	73.7	7.6	4.32	19.04	3.26	0.80
DELTAPINE 50	1.15	82.7	25.5	8.4	73.9	7.3	4.57	19.93	3.16	0.81
DES 119	1.14	83.3	28.9	8.9	69.8	8.0	4.42	18.96	3.34	0.80

DELTAPINE 5415	1.13	83.3	28.8	8.6	74.2	7.7	5.00	17.20	3.27	0.71
CB 1233	1.14	82.9	31.0	8.3	73.5	7.7	4.58	20.38	3.34	0.76
PAYMASTER HS 26	1.09	83.4	30.0	8.7	71.3	7.5	4.67	20.97	3.30	0.85
ACALA 1517-88	1.19	83.5	33.7	8.2	72.5	8.0	4.18	20.18	3.58	0.50
DELTAPINE 90	1.14	83.1	31.1	8.2	72.4	7.8	4.90	21.07	3.27	0.83

Arealometer Data

VARIETY	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STONEVILLE 453	.	.	.	.	.	.	.
STV LA 887	.	.	.	.	.	.	.
DELTAPINE 20	.	.	.	.	.	.	.
DELTAPINE 50	434	33.0	1.82	81	52.57	4.70	2.78
DES 119	.	.	.	.	.	.	.
DELTAPINE 5415	.	.	.	.	.	.	.
CB 1233	.	.	.	.	.	.	.
PAYMASTER HS 26	419	30.0	1.76	83	52.58	4.85	2.89
ACALA 1517-88	458	29.5	1.75	84	47.83	4.04	2.66
DELTAPINE 90	410	25.1	1.66	87	50.73	4.79	3.01





1993 DELTA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT				SEED INDEX				LINT	
DELTAPINE 20	4.79	A		STV LA 887		38.7			
A PAYMASTER HS 26		11.2		A					
DELTAPINE 50	4.79	A		DELTAPINE 5415		38.4			
A STV LA 887		10.9		B A					
PAYMASTER HS 26	4.70	A		STONEVILLE 453		38.1		B	
A ACALA 1517-88		10.7		B A C					
STONEVILLE 453	4.70	A		CB 1233		38.0		B	
A DELTAPINE 50		10.5		B D C					
ACALA 1517-88	4.68	A		DELTAPINE 20		37.3		B A	
C STONEVILLE 453		10.2		E D C					
STV LA 887	4.62	A		DES 119		37.0		DB A	
C CB 1233		10.0		E D					
CB 1233	4.51	A		DELTAPINE 90		36.4		DB E	
C DELTAPINE 90		9.8		E F					
DES 119	4.43	A		ACALA 1517-88		35.9		D E	
C DELTAPINE 20		9.4		F					
DELTAPINE 5415	4.43	A		DELTAPINE 50		35.4		D	
E DES 119		9.4		F					
DELTAPINE 90	4.36	A		PAYMASTER HS 26		35.0			
E DELTAPINE 5415		8.6		G					
YARN TENACITY				FIBROGRAPH--2.5% S.					
L.	FIBROGRAPH--50% S. L.								

ACALA 1517-88	167	A	ACALA 1517-88	1.18	
A	STV LA 887	0.57	A		
STV LA 887	148	B	STV LA 887	1.18	
A	ACALA 1517-88	0.57	B A		
CB 1233	144	C B	DELTAPINE 50	1.15	B
A	PAYMASTER HS 26	0.56	B A C		
DELTAPINE 90	141	C D	DELTAPINE 90	1.14	B
C	DELTAPINE 90	0.55	B A C		
PAYMASTER HS 26	139	C D	STONEVILLE 453	1.14	B
C	STONEVILLE 453	0.55	B A C		
DES 119	137	D	DES 119	1.14	B
C	DES 119	0.55	B C		
STONEVILLE 453	124	E	DELTAPINE 5415	1.13	B
C	DELTAPINE 5415	0.55	B C		
DELTAPINE 50	124	E	CB 1233	1.13	B
C	CB 1233	0.54	B C		
DELTAPINE 5415	124	E	DELTAPINE 20	1.12	B
C	DELTAPINE 20	0.54	C		
DELTAPINE 20	122	E	PAYMASTER HS 26	1.11	
C	DELTAPINE 50	0.54	C		

STELOMETER - T1

E1

MICRONAIRE

STELOMETER -

ACALA 1517-88	263	A	PAYMASTER HS 26	7.5	
A	DELTAPINE 5415	4.97	A		
STV LA 887	233	B	DELTAPINE 50	7.5	
A	PAYMASTER HS 26	4.75	B A		
CB 1233	226	C B	DELTAPINE 20	7.4	
A	DELTAPINE 90	4.73	B A C		
PAYMASTER HS 26	225	C B	DES 119	7.4	
A	CB 1233	4.70	DB A C		
DELTAPINE 90	221	C B D	STONEVILLE 453	7.0	B
A	DELTAPINE 50	4.55	DB E C		
DES 119	214	C D	STV LA 887	7.0	B
A	DELTAPINE 20	4.52	DB E C		
DELTAPINE 5415	210	D	DELTAPINE 5415	6.9	B
A	DES 119	4.47	DF E C		

STONEVILLE 453	194	E	CB 1233	6.4	B
C	STONEVILLE 453	4.43	DF E		
DELTAPINE 20	192	E	DELTAPINE 90	6.1	D
C	STV LA 887	4.38	F E		
DELTAPINE 50	191	E	ACALA 1517-88	5.6	
D	ACALA 1517-88	4.20	F		

 2.5% S.L. (INCHES)
 (PERCENT)

 UR
 STRENGTH (G/TEX)

ACALA 1517-88	1.19	A	STV LA 887	84.2	
A	ACALA 1517-88	33.7	A		
STV LA 887	1.18	A	ACALA 1517-88	83.5	B
A	STV LA 887	31.6	B		
DELTAPINE 50	1.15	B	PAYMASTER HS 26	83.4	B
A	DELTAPINE 90	31.1	B		
DELTAPINE 90	1.14	C B	DES 119	83.3	B
A	CB 1233	31.0	B		
DES 119	1.14	C B	DELTAPINE 5415	83.3	B
A	PAYMASTER HS 26	30.0	C B		
CB 1233	1.14	C B	DELTAPINE 90	83.1	B
A	DES 119	28.9	C D		
DELTAPINE 5415	1.13	C B D	DELTAPINE 20	83.1	B
A	DELTAPINE 5415	28.8	C D		
STONEVILLE 453	1.12	C D	CB 1233	82.9	
B	STONEVILLE 453	28.1	E D		
DELTAPINE 20	1.11	E D	DELTAPINE 50	82.7	
B	DELTAPINE 20	26.5	E F		
PAYMASTER HS 26	1.09	E	STONEVILLE 453	82.5	
B	DELTAPINE 50	25.5	F		

 E
 Rd COLORIMETER - b

 COLORIMETER -

DES 119	8.9	A	DELTAPINE 5415	74.2	
A	STONEVILLE 453	8.2	A		

STV LA 887	8.9	B A	DELTAPINE 50	73.9	
A STV LA 887	8.2		A		
DELTAPINE 20	8.7	B A C	DELTAPINE 20	73.7	
A ACALA 1517-88	8.0		A		
PAYMASTER HS 26	8.7	B A C	CB 1233	73.5	B
A DES 119	8.0		B A		
DELTAPINE 5415	8.6	DB A C	STONEVILLE 453	72.9	B A
C DELTAPINE 90	7.8		B A		
DELTAPINE 50	8.4	DB C	ACALA 1517-88	72.5	B A
C DELTAPINE 5415	7.7		B A		
CB 1233	8.3	D C	DELTAPINE 90	72.4	B A
C CB 1233	7.7		B A		
DELTAPINE 90	8.2	D C	STV LA 887	71.7	B
C DELTAPINE 20	7.6		B A		
ACALA 1517-88	8.2	D	PAYMASTER HS 26	71.3	D
C PAYMASTER HS 26	7.5		B A		
STONEVILLE 453	8.2	D	DES 119	69.8	
D DELTAPINE 50	7.3		B		

MICRONAIRE (SL-HVI)
 (PERCENT)

OIL
 NITROGEN (PERCENT)

DELTAPINE 5415	5.00	A	DELTAPINE 90	21.07	
A ACALA 1517-88	3.58		A		
DELTAPINE 90	4.90	B A	PAYMASTER HS 26	20.97	
A DES 119	3.34		B		
PAYMASTER HS 26	4.67	B C	CB 1233	20.38	B
A CB 1233	3.34		B		
CB 1233	4.58	D C	ACALA 1517-88	20.18	B
A PAYMASTER HS 26	3.30		B		
DELTAPINE 50	4.57	D C E	DELTAPINE 50	19.93	B
C STV LA 887	3.30		B		
STONEVILLE 453	4.42	FD C E	STV LA 887	19.11	D
C DELTAPINE 90	3.27		B		
DES 119	4.42	FD C E	DELTAPINE 20	19.04	D
C DELTAPINE 5415	3.27		B		
DELTAPINE 20	4.32	FD E	DES 119	18.96	
D DELTAPINE 20	3.26		B		
STV LA 887	4.27	F E	STONEVILLE 453	18.19	

D	STONEVILLE 453	3.23	
ACALA 1517-88	4.18	F	
E	DELTAPINE 50	3.16	

B		
DELTAPINE 5415	17.20	
B		

 FREE GOSSYPOL (PERCENT)

PAYMASTER HS 26	0.85	A
DELTAPINE 90	0.83	A
STONEVILLE 453	0.83	A
DELTAPINE 50	0.81	A
DELTAPINE 20	0.80	B A
DES 119	0.80	B A
STV LA 887	0.79	B A
CB 1233	0.76	B A
DELTAPINE 5415	0.71	B
ACALA 1517-88	0.50	C

 AREALOMETER - A (mm2/mm3)

mm3) AREALOMETER - I

ACALA 1517-88	458	A
A	DELTAPINE 50	1.8
DELTAPINE 50	434	B A
A	PAYMASTER HS 26	1.8
PAYMASTER HS 26	419	B
A	ACALA 1517-88	1.8
DELTAPINE 90	410	B
A	DELTAPINE 90	1.7

 AREALOMETER - D (mm2/

DELTAPINE 50	33.0
A	
PAYMASTER HS 26	30.0
A	
ACALA 1517-88	29.5
A	
DELTAPINE 90	25.1
A	

 AREALOMETER - M (PERCENT)

(Microns)

AREALOMETER -w

 AREALOMETER - p

(MG/INCH)

DELTAPINE 90	87	A	PAYMASTER HS 26	52.58
A	PAYMASTER HS 26	4.85	A	
ACALA 1517-88	84	A	DELTAPINE 50	52.57
A	DELTAPINE 90	4.79	A	
PAYMASTER HS 26	83	A	DELTAPINE 90	50.73
A	DELTAPINE 50	4.70	A	
DELTAPINE 50	81	A	ACALA 1517-88	47.83
B	ACALA 1517-88	4.04	B	

 AREALOMETER - t (MICRONS)

DELTAPINE 90	3.01	A
PAYMASTER HS 26	2.89	B A
DELTAPINE 50	2.78	B A
ACALA 1517-88	2.66	B





1993 DELTA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
SAINT JOSEPH, LA	1223	A	4.77	40.3	9.5	135	1.13	0.55	217	6.4	4.83
STONEVILLE, MS	865	B	4.68	36.1	10.7	142	1.14	0.56	221	7.2	4.63
CLARKEDALE, AR	707	C	4.48	35.9	10.0	134	1.16	0.55	212	7.1	4.26

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
SAINT JOSEPH, LA	1.12	83.7	29.0	9.6	76.0	7.4	4.85	19.57	3.29	0.84
STONEVILLE, MS	1.14	82.7	30.7	9.8	70.4	7.8	4.52	19.45	3.42	0.67
CLARKEDALE, AR	1.15	83.2	28.8	6.2	71.4	8.2	4.23	19.49	3.20	0.80

Arealometer Data

LOCATION	A	D	I	M	p	w	t
	(mm ² /mm ³)	(mm ² /mm ³)		(%)	(microns)	(mg/inch)	(microns)

SAINTE JOSEPH, LA	415	27.1	1.70	85	51.45	4.80	3.0
STONEVILLE, MS	424	27.1	1.70	85	50.34	4.61	2.9
CLARKEDALE, AR	453	34.0	1.83	80	51.00	4.38	2.7





1993 DELTA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

SAINT JOSEPH, LA

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DELTAPINE 5415	1361	A	4.55	43.2	8.0	117	1.11	0.54	205	6.4	5.15
STV LA 887	1328	B A	5.45	41.7	10.0	146	1.18	0.59	235	7.1	4.65
STONEVILLE 453	1303	B A C	4.30	40.6	9.6	120	1.15	0.56	197	6.9	4.75
DELTAPINE 90	1263	B A C	4.85	40.4	9.3	137	1.13	0.55	226	5.6	4.80
DELTAPINE 20	1233	B C	4.70	40.7	8.9	120	1.10	0.54	194	6.6	4.85
CB 1233	1208	D C	4.85	40.6	9.1	144	1.11	0.53	219	5.5	5.00
DES 119	1198	D C	4.30	40.7	9.2	136	1.13	0.56	221	6.9	4.95
DELTAPINE 50	1194	D C	4.85	38.8	10.0	122	1.14	0.54	190	6.9	4.85
PAYMASTER HS 26	1110	E D	5.20	36.3	10.5	143	1.07	0.54	223	7.1	4.80
ACALA 1517-88	1032	E	4.65	39.8	10.4	165	1.17	0.57	265	4.8	4.45

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
DELTAPINE 5415	1.10	83.3	28.2	9.7	77.8	7.3	5.30	16.67	3.53	0.78
STV LA 887	1.18	84.8	30.6	10.0	75.2	7.9	4.60	19.94	3.22	0.83
STONEVILLE 453	1.10	82.8	27.6	9.2	75.3	7.7	4.95	18.14	3.20	0.88
DELTAPINE 90	1.12	83.3	30.3	9.3	76.0	7.2	5.20	21.03	3.19	0.96

DELTAPINE 20	1.12	83.8	25.7	9.6	76.7	7.0	4.80	19.06	3.22	0.89
CB 1233	1.13	83.2	30.9	9.6	77.3	7.5	4.90	20.77	3.27	0.83
DES 119	1.12	84.5	29.0	10.0	73.4	7.7	4.80	19.28	3.33	0.81
DELTAPINE 50	1.15	84.2	24.5	9.3	77.4	7.2	4.80	20.10	3.12	0.94
PAYMASTER HS 26	1.07	83.1	30.9	9.9	75.3	7.5	4.65	20.71	3.25	0.95
ACALA 1517-88	1.17	84.6	32.9	9.4	75.3	7.5	4.50	20.03	3.57	0.51

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 5415	.	.	.	.	.	.	.
STV LA 887	.	.	.	.	.	.	.
STONEVILLE 453	.	.	.	.	.	.	.
DELTAPINE 90	396	24.0	1.64	88	51.86	5.06	3.1
DELTAPINE 20	.	.	.	.	.	.	.
CB 1233	.	.	.	.	.	.	.
DES 119	.	.	.	.	.	.	.
DELTAPINE 50	409	28.0	1.72	84	52.89	5.01	3.0
PAYMASTER HS 26	427	33.5	1.83	81	53.73	4.85	2.8
ACALA 1517-88	428	22.8	1.61	89	47.32	4.27	2.9





1993 DELTA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

STONEVILLE, MS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
STONEVILLE 453	1016	A	4.70	37.3	131	1.14	0.55	191	7.3	4.35	
STV LA 887	1006	A	4.90	38.2	154	1.19	0.58	245	7.6	4.30	
DELTAPINE 20	935	B	4.90	36.6	129	1.11	0.55	191	7.8	4.45	
DELTAPINE 50	935	B	4.90	34.1	129	1.14	0.55	197	7.8	4.55	
DES 119	892	B	4.45	35.4	141	1.13	0.56	219	7.6	4.45	
ACALA 1517-88	827	C	5.15	36.8	171	1.18	0.57	256	6.1	4.25	
DELTAPINE 5415	811	D C	4.45	36.3	9.4	134	1.11	0.56	219	7.3	5.20
PAYMASTER HS 26	795	D C	4.70	34.0	12.1	142	1.13	0.56	229	7.6	4.95
CB 1233	759	D	4.25	36.2	10.5	144	1.11	0.54	238	7.1	4.75
DELTAPINE 90	676	E	4.40	36.1	9.9	146	1.12	0.56	223	6.1	5.00

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
STONEVILLE 453	1.15	82.6	28.1	9.5	71.8	7.7	4.25	18.70	3.26	0.74
STV LA 887	1.18	82.9	33.2	10.0	69.8	8.0	4.10	19.11	3.22	0.77
DELTAPINE 20	1.09	82.3	26.7	9.7	72.7	7.5	4.30	18.36	3.45	0.68
DELTAPINE 50	1.15	82.2	26.2	9.6	71.8	7.0	4.50	20.11	3.32	0.66

DES 119	1.14	82.5	29.9	10.0	68.8	8.1	4.30	18.49	3.53	0.69
ACALA 1517-88	1.18	82.7	35.3	9.7	69.4	8.1	4.15	19.92	3.68	0.43
DELTAPINE 5415	1.13	83.3	30.0	10.0	70.9	7.8	5.15	17.73	3.22	0.63
PAYMASTER HS 26	1.10	82.9	31.6	9.8	69.1	7.8	4.80	20.71	3.52	0.69
CB 1233	1.15	82.6	32.6	9.8	71.1	8.0	4.70	20.26	3.52	0.71
DELTAPINE 90	1.13	83.1	33.8	9.8	68.8	8.1	4.90	21.12	3.48	0.70

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STONEVILLE 453	.	.	.	.	.	.	.
STV LA 887	.	.	.	.	.	.	.
DELTAPINE 20	.	.	.	.	.	.	.
DELTAPINE 50	435	34.0	1.84	80	53.05	4.71	2.8
DES 119	.	.	.	.	.	.	.
ACALA 1517-88	452	27.5	1.71	85	47.48	4.06	2.7
DELTAPINE 5415	.	.	.	.	.	.	.
PAYMASTER HS 26	405	25.3	1.66	87	51.41	4.92	3.1
CB 1233	.	.	.	.	.	.	.
DELTAPINE 90	403	21.8	1.59	90	49.42	4.74	3.1





1993 DELTA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

CLARKEDALE, AR

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
DELTAPINE 20	853	A	4.77	36.0	9.2	117	1.15	0.54	190	7.8	4.25
STONEVILLE 453	758	B A	4.91	37.2	10.2	121	1.13	0.55	195	7.0	4.20
CB 1233	744	B A C	4.48	37.7	10.4	145	1.18	0.56	222	6.5	4.35
DELTAPINE 50	741	B A C	4.71	34.4	10.1	120	1.17	0.54	186	8.0	4.25
PAYMASTER HS 26	696	B C	4.45	34.8	11.0	133	1.13	0.56	223	7.9	4.50
DES 119	684	B C	4.48	35.9	9.1	136	1.16	0.54	202	7.6	4.00
STV LA 887	678	B C	4.07	37.5	11.1	145	1.17	0.55	218	6.3	4.20
DELTAPINE 90	658	B C	4.10	34.7	10.1	139	1.17	0.55	215	6.5	4.40
ACALA 1517-88	645	B C	4.46	33.4	10.7	165	1.19	0.55	268	6.0	3.90
DELTAPINE 5415	612	C	4.36	37.1	8.5	121	1.17	0.54	207	7.0	4.55

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
DELTAPINE 20	1.12	83.1	27.1	7.0	71.9	8.4	3.85	19.69	3.11	0.85
STONEVILLE 453	1.13	82.3	28.5	5.8	71.6	9.3	4.05	17.75	3.23	0.87
CB 1233	1.16	82.9	29.5	5.6	72.2	7.7	4.15	20.11	3.23	0.76
DELTAPINE 50	1.16	81.8	26.0	6.2	72.4	7.7	4.40	19.59	3.05	0.84

PAYMASTER HS 26	1.11	84.3	27.5	6.6	69.4	7.3	4.55	21.48	3.13	0.91
DES 119	1.16	82.9	27.8	6.8	67.2	8.2	4.15	19.10	3.16	0.91
STV LA 887	1.20	84.8	31.2	6.6	70.2	8.7	4.10	18.30	3.46	0.77
DELTAPINE 90	1.16	83.1	29.2	5.6	72.6	8.1	4.60	21.06	3.14	0.83
ACALA 1517-88	1.21	83.3	33.0	5.4	72.9	8.4	3.90	20.60	3.49	0.55
DELTAPINE 5415	1.16	83.3	28.4	6.2	73.9	8.2	4.55	17.21	3.05	0.72

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 20	.	.	.	.	.	.	.
STONEVILLE 453	.	.	.	.	.	.	.
CB 1233	.	.	.	.	.	.	.
DELTAPINE 50	459	37.0	1.89	78	51.78	4.38	2.6
PAYMASTER HS 26	426	31.3	1.79	82	52.61	4.77	2.8
DES 119	.	.	.	.	.	.	.
STV LA 887	.	.	.	.	.	.	.
DELTAPINE 90	431	29.5	1.75	83	50.91	4.57	2.8
ACALA 1517-88	495	38.3	1.92	77	48.70	3.80	2.4
DELTAPINE 5415	.	.	.	.	.	.	.



Central Region Test Results

Cooperators

Wayne Smith, Chairman
David Caldwell





1993 CENTRAL REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
STV LA 887	1077	A	5.37	39.2	10.7	136	1.14	0.55	207	7.6	4.46
DELTAPINE 50	918	B A	5.07	35.4	10.3	113	1.12	0.53	182	7.8	4.60
DES 119	918	B A	4.37	38.9	9.3	127	1.12	0.55	206	7.6	4.63
DELTAPINE 90	829	B C	4.95	38.4	9.5	130	1.09	0.53	210	6.5	4.85
ACALA 1517-88	687	C	4.79	36.7	10.8	153	1.17	0.56	228	6.1	4.41
PAYMASTER HS 26	673	C	5.39	35.6	11.0	129	1.06	0.53	215	7.8	4.64

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
STV LA 887	1.12	83.1	27.4	9.8	68.5	8.2	4.55	19.01	3.51	0.94
DELTAPINE 50	1.11	83.0	23.6	9.5	68.9	6.6	4.68	20.12	3.32	0.97
DES 119	1.11	83.4	27.9	10.0	65.8	7.4	4.61	18.84	3.52	0.90
DELTAPINE 90	1.08	81.8	29.5	9.4	69.1	7.1	4.81	20.56	3.39	0.85
ACALA 1517-88	1.16	83.2	29.3	9.2	68.0	7.3	4.29	20.24	3.59	0.68
PAYMASTER HS 26	1.06	83.1	29.1	10.0	68.6	7.1	4.60	20.36	3.40	0.81

VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STV LA 887	.	.	.	.	.	.	.
DELTAPINE 50	427	32.2	1.80	82	52.80	4.79	2.84
DES 119	.	.	.	.	.	.	.
DELTAPINE 90	403	20.9	1.56	90	48.67	4.69	3.15
ACALA 1517-88	445	28.5	1.73	84	48.78	4.24	2.73
PAYMASTER HS 26	433	32.9	1.81	81	52.62	4.71	2.79





1993 CENTRAL REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT				SEED INDEX		LINT	
PAYMASTER HS 26	5.39	A		STV LA 887		39.2	
A	PAYMASTER HS 26	11.0		A			
STV LA 887	5.37	A		DES 119		38.9	
A	ACALA 1517-88	10.8	B	A			
DELTAPINE 50	5.07	B	A	DELTAPINE 90		38.4	
A	STV LA 887	10.7	B	A			
DELTAPINE 90	4.95	B	A	ACALA 1517-88		36.7	
B	DELTAPINE 50	10.3	B				
ACALA 1517-88	4.79	B	C	PAYMASTER HS 26		35.6	
B	DELTAPINE 90	9.5		C			
DES 119	4.37	C		DELTAPINE 50		35.4	
B	DES 119	9.3		C			
YARN TENACITY				FIBROGRAPH--2.5% S.			
L.	FIBROGRAPH--50% S.			L.			
ACALA 1517-88	153	A		ACALA 1517-88		1.17	
A	ACALA 1517-88	0.56		A			
STV LA 887	136	B		STV LA 887		1.14	
B	DES 119	0.55		A			
DELTAPINE 90	130	B		DELTAPINE 50		1.12	
B	STV LA 887	0.55	B	A			

1993 CENTRAL REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

PAYMASTER HS 26	129	B	DES 119	1.12
B	PAYMASTER HS 26	0.53	B C	
DES 119	127	B	DELTAPINE 90	1.09
C	DELTAPINE 90	0.53	C	
DELTAPINE 50	113	C	PAYMASTER HS 26	1.06
D	DELTAPINE 50	0.53	C	

 STELOMETER - T1

 STELOMETER -

E1 MICRONAIRE

ACALA 1517-88	228	A	DELTAPINE 50	7.8
A	DELTAPINE 90	4.85	A	
PAYMASTER HS 26	215	B	PAYMASTER HS 26	7.8
A	PAYMASTER HS 26	4.64	B A	
DELTAPINE 90	210	B	DES 119	7.6
A	DES 119	4.63	B A	
STV LA 887	207	B	STV LA 887	7.6
A	DELTAPINE 50	4.60	B A	
DES 119	206	B	DELTAPINE 90	6.5
B	STV LA 887	4.46	B	
DELTAPINE 50	182	C	ACALA 1517-88	6.1
C	ACALA 1517-88	4.41	B	

 2.5% S.L. (INCHES)
 (PERCENT)

 UR
 STRENGTH (G/TEX)

ACALA 1517-88	1.16	A	DES 119	83.4
A	DELTAPINE 90	29.5	A	
STV LA 887	1.12	B	ACALA 1517-88	83.2
A	ACALA 1517-88	29.3	A	
DELTAPINE 50	1.11	B	PAYMASTER HS 26	83.1
A	PAYMASTER HS 26	29.1	A	
DES 119	1.11	B	STV LA 887	83.1
A	DES 119	27.9	B	
DELTAPINE 90	1.08	C	DELTAPINE 50	83.0
A	STV LA 887	27.4	B	

PAYMASTER HS 26	1.06	C	DELTAPINE 90	81.8
B DELTAPINE 50		23.6	C	

 E
 Rd COLORIMETER - b

PAYMASTER HS 26	10.0	A	DELTAPINE 90	69.1
A STV LA 887		8.2	A	
DES 119	10.0	A	DELTAPINE 50	68.9
A DES 119		7.4	B	
STV LA 887	9.8	A	PAYMASTER HS 26	68.6
A ACALA 1517-88		7.3	B	
DELTAPINE 50	9.5	B	STV LA 887	68.5
A PAYMASTER HS 26		7.1	B	B
DELTAPINE 90	9.4	B	ACALA 1517-88	68.0
A DELTAPINE 90		7.1	B	B
ACALA 1517-88	9.2	B	DES 119	65.8
B DELTAPINE 50		6.6	C	

 MICRONAIRE (SL-HVI)
 (PERCENT)

DELTAPINE 90	4.81	A	DELTAPINE 90	20.56
A ACALA 1517-88		3.59	A	
DELTAPINE 50	4.68	A	PAYMASTER HS 26	20.36
A DES 119		3.52	B A	
DES 119	4.61	A	ACALA 1517-88	20.24
A STV LA 887		3.51	B A	
PAYMASTER HS 26	4.60	A	DELTAPINE 50	20.12
A PAYMASTER HS 26		3.40	B C	
STV LA 887	4.55	A	STV LA 887	19.01
B DELTAPINE 90		3.39	B C	
ACALA 1517-88	4.29	B	DES 119	18.84
B DELTAPINE 50		3.32	C	

 FREE GOSSYPOL (PERCENT)

DELTAPINE 50	0.97	A
STV LA 887	0.94	B A
DES 119	0.90	B A
DELTAPINE 90	0.85	B A
PAYMASTER HS 26	0.81	B
ACALA 1517-88	0.68	C

 AREALOMETER - A (mm2/mm3)

mm3) AREALOMETER - I

ACALA 1517-88	445	A
A PAYMASTER HS 26	1.8	
PAYMASTER HS 26	433	B A
A DELTAPINE 50	1.8	
DELTAPINE 50	427	B
A ACALA 1517-88	1.7	
DELTAPINE 90	403	C
B DELTAPINE 90	1.6	

 AREALOMETER - D (mm2/

PAYMASTER HS 26	32.9
A	
DELTAPINE 50	32.2
A	
ACALA 1517-88	28.5
A	
DELTAPINE 90	20.9
B	

 AREALOMETER - M (PERCENT)

(Microns) AREALOMETER -w (MG/INCH)

DELTAPINE 90	90	A
A DELTAPINE 50	4.79	
ACALA 1517-88	84	B
A PAYMASTER HS 26	4.71	
DELTAPINE 50	82	B
B DELTAPINE 90	4.69	

 AREALOMETER - p

DELTAPINE 50	52.80
A	
PAYMASTER HS 26	52.62
A	
ACALA 1517-88	48.78
A	

PAYMASTER HS 26	81	B	DELTAPINE 90	48.67
B	ACALA 1517-88	4.24	B	

AREALOMETER - t (MICRONS)

DELTAPINE 90	3.15	A
DELTAPINE 50	2.84	B
PAYMASTER HS 26	2.79	B
ACALA 1517-88	2.73	B





1993 CENTRAL REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
BOSSIER CITY, LA	1051	A	5.02	39.5	10.4	140	1.13	0.56	229	6.4	5.08
WESLACO, TX	857	B	5.48	37.0	11.4	130	1.15	0.55	204	7.7	4.48
COLLEGE STATION, TX	813	B	4.95	36.6	10.0	134	1.14	0.54	212	7.2	4.24
BEEVILLE, TX	479	C	4.52	36.3	9.3	120	1.05	0.51	187	7.7	4.58

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
BOSSIER CITY, LA	1.12	84.5	30.9	9.9	72.3	7.3	5.16	19.28	3.74	0.66
WESLACO, TX	1.14	83.1	26.5	9.7	66.6	7.7	4.48	20.09	3.53	0.92
COLLEGE STATION, TX	1.12	82.2	27.4	9.4	64.5	6.3	4.18	19.70	3.57	0.85
BEEVILLE, TX	1.05	81.9	26.3	9.6	69.2	7.9	4.55	20.35	2.98	1.01

Arealometer Data

LOCATION	A	D	I	M	p	w	t
----------	---	---	---	---	---	---	---

(mm²/mm³)(mm²/mm³)

(%)

(microns)

(mg/inch)

(microns)

BOSSIER CITY, LA	390	19.8	1.54	91	49.66	4.92	3.2
WESLACO, TX	428	30.4	1.76	83	51.86	4.69	2.8
COLLEGE STATION, TX	456	32.4	1.80	81	49.56	4.21	2.7
BEEVILLE, TX	434	31.9	1.79	82	51.79	4.61	2.8





1993 CENTRAL REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

COLLEGE STATION, TX

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
DELTAPINE 90	952	A	5.19	37.0	9.2	135	1.13	0.54	221	6.4	4.45
DELTAPINE 50	928	A	5.07	35.0	10.1	110	1.15	0.53	178	7.5	4.25
DES 119	907	A	4.56	39.0	9.2	121	1.16	0.56	208	7.5	4.55
STV LA 887	870	B A	4.60	37.5	10.1	141	1.17	0.55	207	7.8	3.95
PAYMASTER HS 26	612	B	5.37	34.5	10.5	139	1.06	0.52	226	8.0	4.30
ACALA 1517-88	608	B	4.89	36.5	10.7	161	1.21	0.56	234	6.0	3.95

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
DELTAPINE 90	1.10	80.8	29.5	9.2	66.4	6.5	4.45	20.83	3.40	0.91
DELTAPINE 50	1.10	81.9	22.4	9.0	65.0	5.8	4.35	19.86	3.44	0.88
DES 119	1.13	82.9	27.2	10.0	59.0	6.1	4.35	19.25	3.63	0.98
STV LA 887	1.15	82.5	26.8	9.4	64.8	6.8	3.85	18.48	3.62	0.96
PAYMASTER HS 26	1.06	82.8	29.6	10.0	64.8	6.2	4.10	19.81	3.68	0.79
ACALA 1517-88	1.18	82.6	29.1	8.9	66.8	6.5	3.95	20.00	3.67	0.58

VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 90	445	28.0	1.71	85	48.24	4.20	2.8
DELTAPINE 50	446	32.5	1.80	82	50.68	4.42	2.7
DES 119	.	.	.	.	.	.	.
STV LA 887	.	.	.	.	.	.	.
PAYMASTER HS 26	465	40.0	1.95	76	52.61	4.37	2.5
ACALA 1517-88	470	29.3	1.75	84	46.73	3.86	2.6





1993 CENTRAL REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

WESLACO, TX

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
STV LA 887	1305	A	6.20	38.5	11.8	138	1.16	0.55	203	8.1	4.30
DES 119	1076	B A	4.59	39.0	9.8	128	1.13	0.55	204	8.0	4.45
DELTAPINE 50	872	B A	5.64	34.5	11.8	113	1.16	0.54	178	8.6	4.45
ACALA 1517-88	683	B A	5.14	35.5	11.7	152	1.21	0.56	227	6.3	4.20
DELTAPINE 90	639	B	5.63	39.0	11.1	133	1.13	0.54	210	6.8	4.95
PAYMASTER HS 26	569	B	5.66	35.5	12.6	117	1.11	0.56	204	8.1	4.55

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
STV LA 887	1.15	83.1	26.9	10.0	68.0	8.5	4.40	18.88	3.68	0.88
DES 119	1.12	82.9	26.1	9.8	66.6	8.0	4.30	18.63	3.57	0.85
DELTAPINE 50	1.17	83.7	22.6	9.7	69.0	7.1	4.60	20.71	3.38	1.16
ACALA 1517-88	1.21	83.8	28.1	9.3	65.7	7.6	4.15	20.40	3.64	0.81
DELTAPINE 90	1.13	82.6	28.4	9.5	65.2	7.4	4.80	20.47	3.55	0.90
PAYMASTER HS 26	1.09	82.8	27.1	10.0	65.3	7.5	4.60	21.45	3.37	0.91

VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STV LA 887	.	.	.	.	.	.	.
DES 119	.	.	.	.	.	.	.
DELTAPINE 50	437	38.3	1.92	77	55.17	4.88	2.7
ACALA 1517-88	448	28.3	1.73	84	48.45	4.18	2.7
DELTAPINE 90	396	22.3	1.60	89	50.74	4.95	3.1
PAYMASTER HS 26	431	33.0	1.82	81	53.08	4.76	2.8





1993 CENTRAL REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

BOSSIER CITY, LA

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
STV LA 887	1248	A	5.60	42.3	10.9	141	1.15	0.57	229	6.6	4.95
DELTAPINE 50	1111	B	5.05	37.7	10.0	123	1.12	0.55	201	6.9	5.25
DELTAPINE 90	1109	B	4.95	39.4	9.6	136	1.11	0.55	225	5.8	5.40
DES 119	1084	B	4.50	41.3	9.6	136	1.16	0.57	223	6.9	4.90
ACALA 1517-88	898	C	4.60	38.3	11.5	168	1.18	0.59	255	5.5	4.90
PAYMASTER HS 26	858	C	5.40	38.4	11.1	139	1.06	0.54	242	7.0	5.10

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
STV LA 887	1.11	84.5	30.5	10.0	72.1	8.2	5.15	19.03	3.62	0.82
DELTAPINE 50	1.12	84.1	26.7	9.8	72.1	6.4	5.30	18.95	3.61	0.74
DELTAPINE 90	1.10	84.0	32.7	9.8	73.2	7.2	5.40	19.94	3.76	0.63
DES 119	1.15	85.4	30.7	10.0	70.6	7.4	5.10	18.59	3.86	0.73
ACALA 1517-88	1.16	84.8	33.1	9.7	71.9	7.5	4.75	19.83	3.88	0.50
PAYMASTER HS 26	1.07	84.2	31.9	10.0	74.0	7.4	5.25	19.37	3.69	0.52

VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STV LA 887	.	.	.	.	.	.	.
DELTAPINE 50	387	21.5	1.58	90	51.45	5.14	3.2
DELTAPINE 90	368	12.8	1.38	97	46.99	4.94	3.6
DES 119	.	.	.	.	.	.	.
ACALA 1517-88	417	23.0	1.62	89	48.69	4.51	3.0
PAYMASTER HS 26	389	22.0	1.59	89	51.51	5.11	3.2





1993 CENTRAL REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

BEEVILLE, TX

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
STV LA 887	712	A	5.08	38.5	10.0	124	1.08	0.54	188	7.9	4.65
DELTAPINE 50	571	B A	4.54	34.5	9.4	105	1.05	0.49	173	8.4	4.45
PAYMASTER HS 26	467	B C	5.12	34.0	10.1	121	1.02	0.51	190	8.1	4.60
DES 119	437	B C	3.83	36.5	8.6	124	1.05	0.54	189	8.0	4.60
ACALA 1517-88	350	C	4.54	36.5	9.3	132	1.09	0.52	198	6.8	4.60
DELTAPINE 90	335	C	4.05	38.0	8.3	118	1.01	0.49	185	7.3	4.60

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
STV LA 887	1.09	82.2	25.6	10.0	69.0	9.2	4.80	19.68	3.13	1.10
DELTAPINE 50	1.07	82.2	22.8	9.5	69.6	7.3	4.45	20.97	2.86	1.09
PAYMASTER HS 26	1.02	82.7	27.8	10.0	70.5	7.5	4.45	20.84	2.85	1.04
DES 119	1.05	82.6	27.6	10.0	66.9	8.3	4.70	18.91	3.02	1.02
ACALA 1517-88	1.11	81.9	26.9	9.0	67.6	7.6	4.30	20.74	3.18	0.83
DELTAPINE 90	0.99	79.8	27.4	9.3	71.7	7.5	4.60	20.99	2.85	0.98

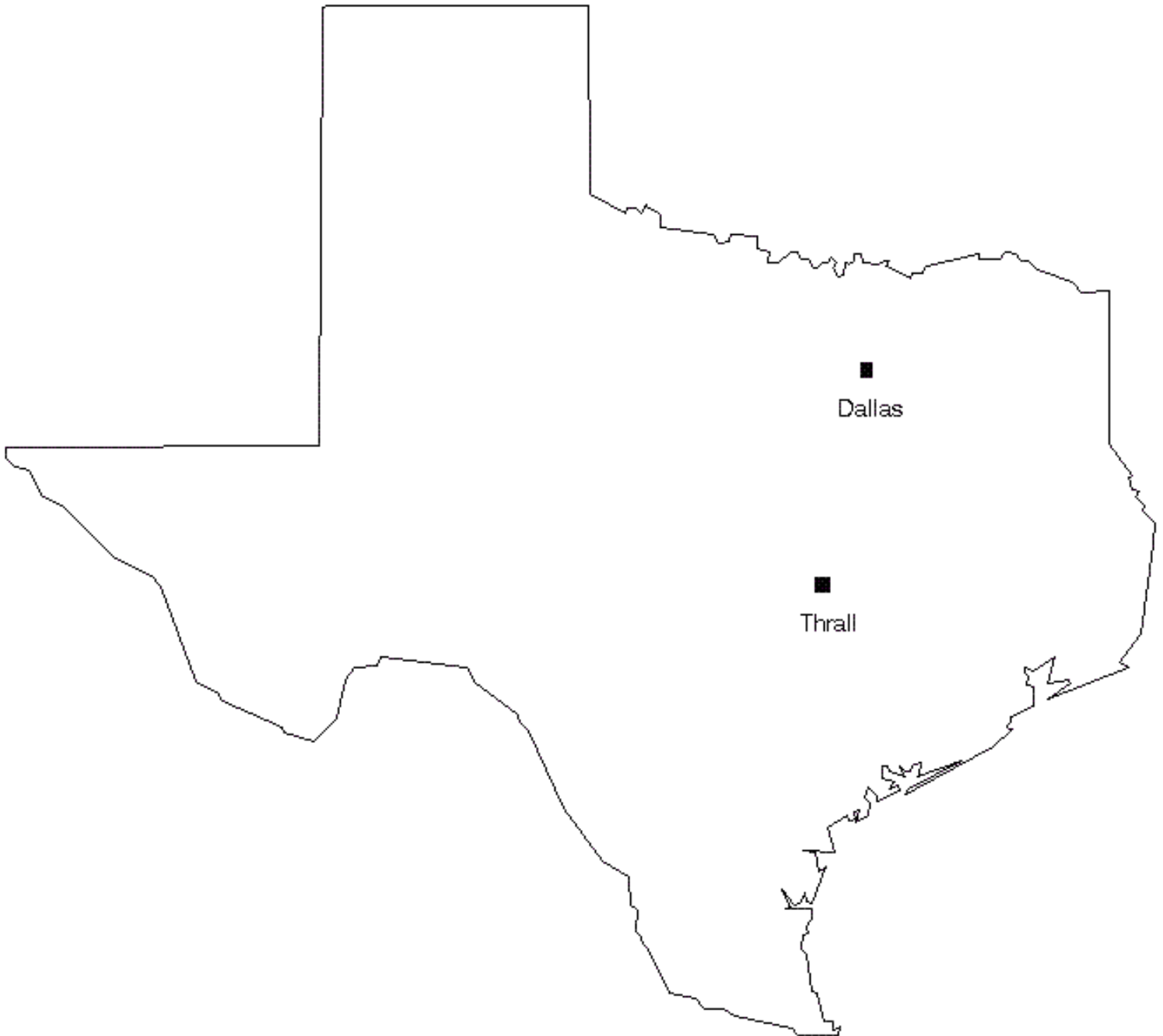
VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STV LA 887	.	.	.	.	.	.	.
DELTAPINE 50	439	36.5	1.88	78	53.90	4.74	2.7
PAYMASTER HS 26	446	36.8	1.89	78	53.26	4.61	2.7
DES 119	.	.	.	.	.	.	.
ACALA 1517-88	448	33.5	1.83	81	51.28	4.42	2.7
DELTAPINE 90	404	20.8	1.57	91	48.72	4.66	3.1



Blacklands Region Test Results

Cooperators:

Wayne Smith, Chairman







1993 BLACKLAND REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
DELTAPINE 50	603	A	4.59	38.5	9.2	118	1.05	0.51	178	7.1	4.70
STONEVILLE 453	585	A	4.30	42.8	8.9	111	1.05	0.49	172	6.6	4.58
DELTAPINE 90	577	A	4.42	40.0	8.7	128	1.04	0.51	208	6.0	4.80
ACALA 1517-88	487	B A	4.59	40.3	9.8	156	1.12	0.54	249	5.6	4.58
TAMCOT HQ95	442	B A	5.18	40.5	9.3	126	1.05	0.50	195	6.3	4.05
PAYMASTER HS 26	375	B	4.78	38.3	9.7	138	0.99	0.49	216	7.4	4.45

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
DELTAPINE 50	1.06	82.6	24.0	9.2	72.4	8.4	4.90	20.17	3.42	0.75
STONEVILLE 453	1.06	81.3	23.9	8.5	67.3	8.2	4.48	18.10	3.70	0.64
DELTAPINE 90	1.04	81.7	29.5	9.2	73.5	8.3	4.85	19.85	3.50	0.74
ACALA 1517-88	1.11	82.5	31.2	9.3	69.3	8.7	4.55	19.24	3.48	0.46
TAMCOT HQ95	1.05	81.8	25.9	8.3	72.5	8.4	4.05	18.44	3.73	0.49
PAYMASTER HS 26	0.99	82.5	31.8	10.0	70.7	8.1	4.33	19.85	3.48	0.65

VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 50	412	29.5	1.75	84	53.20	5.00	2.96
STONEVILLE 453	.	.	.	.	.	.	.
DELTAPINE 90	416	25.1	1.66	87	50.01	4.64	2.96
ACALA 1517-88	437	24.1	1.63	88	46.80	4.13	2.84
TAMCOT HQ95	.	.	.	.	.	.	.
PAYMASTER HS 26	442	33.3	1.82	81	51.79	4.53	2.71





1993 BLACKLAND REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT			SEED INDEX	LINT	
TAMCOT HQ95	5.18	A	STONEVILLE 453	42.8	
A ACALA 1517-88		9.8	A		
PAYMASTER HS 26	4.78	B	TAMCOT HQ95	40.5	
B PAYMASTER HS 26		9.7	B A		
DELTAPINE 50	4.59	C B	ACALA 1517-88	40.3	C
B TAMCOT HQ95		9.3	B A C		
ACALA 1517-88	4.59	C B	DELTAPINE 90	40.0	C B
D DELTAPINE 50		9.2	B D C		
DELTAPINE 90	4.42	C B	DELTAPINE 50	38.5	C
D STONEVILLE 453		8.9	D C		
STONEVILLE 453	4.30	C	PAYMASTER HS 26	38.3	
D DELTAPINE 90		8.7	D		

YARN TENACITY L.			FIBROGRAPH--2.5% S.	
FIBROGRAPH--50% S. L.				
ACALA 1517-88	156	A	ACALA 1517-88	1.12
A ACALA 1517-88		0.54	A	
PAYMASTER HS 26	138	B	DELTAPINE 50	1.05
B DELTAPINE 90		0.51	B A	
DELTAPINE 90	128	C B	STONEVILLE 453	1.05
B DELTAPINE 50		0.51	B A	

1993 BLACKLAND REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

TAMCOT HQ95	126	C	TAMCOT HQ95	1.05
B	TAMCOT HQ95	0.50	B	
DELTAPINE 50	118	C D	DELTAPINE 90	1.04
B	PAYMASTER HS 26	0.49	B	
STONEVILLE 453	111	D	PAYMASTER HS 26	0.99
C	STONEVILLE 453	0.49	B	

 STELOMETER - T1

 STELOMETER -

E1 MICRONAIRE

ACALA 1517-88	249	A
A	DELTAPINE 90	4.80
PAYMASTER HS 26	216	B
A	DELTAPINE 50	4.70
DELTAPINE 90	208	B
B	STONEVILLE 453	4.58
TAMCOT HQ95	195	C B
B	ACALA 1517-88	4.58
DELTAPINE 50	178	C D
D	PAYMASTER HS 26	4.45
STONEVILLE 453	172	D
D	TAMCOT HQ95	4.05

PAYMASTER HS 26	7.4	
A		
DELTAPINE 50	7.1	
A		
STONEVILLE 453	6.6	
A		
TAMCOT HQ95	6.3	C
A		
DELTAPINE 90	6.0	C
B A		
ACALA 1517-88	5.6	
B		

 2.5% S.L. (INCHES)
 (PERCENT)

 UR
 STRENGTH (G/TEX)

ACALA 1517-88	1.11	A
A	PAYMASTER HS 26	31.8
DELTAPINE 50	1.06	B
A	ACALA 1517-88	31.2
STONEVILLE 453	1.06	B
A	DELTAPINE 90	29.5
TAMCOT HQ95	1.05	B
A	TAMCOT HQ95	25.9
DELTAPINE 90	1.04	B
A	DELTAPINE 50	24.0

DELTAPINE 50	82.6
A	
ACALA 1517-88	82.5
A	
PAYMASTER HS 26	82.5
B	
TAMCOT HQ95	81.8
C	
DELTAPINE 90	81.7
D	

1993 BLACKLAND REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

PAYMASTER HS 26	0.99	C	STONEVILLE 453	81.3
A	STONEVILLE 453	23.9	D	

 E
 Rd COLORIMETER - b

PAYMASTER HS 26	10.0	A	DELTAPINE 90	73.5	
A	ACALA 1517-88	8.7	A		
ACALA 1517-88	9.3	B	TAMCOT HQ95	72.5	
A	TAMCOT HQ95	8.4	B A		
DELTAPINE 90	9.2	B	DELTAPINE 50	72.4	
A	DELTAPINE 50	8.4	B A		
DELTAPINE 50	9.2	B	PAYMASTER HS 26	70.7	B
A	DELTAPINE 90	8.3	B		
STONEVILLE 453	8.5	C	ACALA 1517-88	69.3	B
A	STONEVILLE 453	8.2	B		
TAMCOT HQ95	8.3	C	STONEVILLE 453	67.3	
B	PAYMASTER HS 26	8.1	B		

 MICRONAIRE (SL-HVI)
 (PERCENT)

DELTAPINE 50	4.90	A	DELTAPINE 50	20.17
A	TAMCOT HQ95	3.73	A	
DELTAPINE 90	4.85	B A	PAYMASTER HS 26	19.85
A	STONEVILLE 453	3.70	A	
ACALA 1517-88	4.55	B A C	DELTAPINE 90	19.85
A	DELTAPINE 90	3.50	B A	
STONEVILLE 453	4.48	B A C	ACALA 1517-88	19.24
B	PAYMASTER HS 26	3.48	B A	
PAYMASTER HS 26	4.33	B C	TAMCOT HQ95	18.44
C	ACALA 1517-88	3.48	B A	
TAMCOT HQ95	4.05	C	STONEVILLE 453	18.10
C	DELTAPINE 50	3.42	B	

 FREE GOSSYPOL (PERCENT)

DELTAPINE 50	0.75	A
DELTAPINE 90	0.74	A
PAYMASTER HS 26	0.65	B A
STONEVILLE 453	0.64	B A
TAMCOT HQ95	0.49	B C
ACALA 1517-88	0.46	C

 AREALOMETER - A (mm2/mm3)

mm3) AREALOMETER - I

PAYMASTER HS 26	442	A
A	PAYMASTER HS 26	1.8
ACALA 1517-88	437	B A
A	DELTAPINE 50	1.8
DELTAPINE 90	416	B C
A	DELTAPINE 90	1.7
DELTAPINE 50	412	C
A	ACALA 1517-88	1.6

 AREALOMETER - D (mm2/

PAYMASTER HS 26	33.3
A	
DELTAPINE 50	29.5
A	
DELTAPINE 90	25.1
A	
ACALA 1517-88	24.1
A	

 AREALOMETER - M (PERCENT)

(Microns) AREALOMETER -w (MG/INCH)

ACALA 1517-88	88	A
A	DELTAPINE 50	5.00
DELTAPINE 90	87	A
A	DELTAPINE 90	4.64
DELTAPINE 50	84	A
A	PAYMASTER HS 26	4.53

 AREALOMETER - p

DELTAPINE 50	53.20	
A		
PAYMASTER HS 26	51.79	B
B A		
DELTAPINE 90	50.01	B
B A		

PAYMASTER HS 26	81	A	ACALA 1517-88	46.80
B	ACALA 1517-88	4.13	B	

 AREALOMETER - t (MICRONS)

DELTAPINE 90	2.96	A
DELTAPINE 50	2.96	A
ACALA 1517-88	2.84	B A
PAYMASTER HS 26	2.71	B





1993 BLACKLAND REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
THRALL, TX	614	A 4.79	40.0	9.5	131	1.06	0.51	201	6.5	4.39
DALLAS, TX	386	B 4.49	40.1	9.1	128	1.04	0.50	205	6.5	4.66

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd Hunter's b				
THRALL, TX	1.06	82.1	27.0	8.9	71.7 8.5	4.37	18.74	3.59	0.51
DALLAS, TX	1.05	82.1	28.4	9.2	70.2 8.1	4.68	19.80	3.51	0.73

Arealometer Data

LOCATION	A	D	I	M	p	w	t
	(mm ² /mm ³)	(mm ² /mm ³)		(%)	(microns)	(mg/inch)	(microns)

THRALL, TX	441	32.3	1.80	81	51.33	4.51	2.7
DALLAS, TX	413	23.8	1.63	88	49.57	4.65	3.0





1993 BLACKLAND REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

DALLAS, TX

VARIETY	LINT YIELD		BOLL SIZE		LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)		PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1	(Reading)
							(mN/tex)	(inches)	(inches)	(mN/tex)	(%)	
DELTAPINE 90	513	A	4.23		40.0	8.3	121	1.01	0.50	201	6.0	4.95
STONEVILLE 453	456	B A	4.32		42.5	8.9	112	1.05	0.50	178	6.6	4.80
DELTAPINE 50	401	B A C	4.36		39.0	9.0	118	1.04	0.51	180	7.0	5.00
ACALA 1517-88	317	B C	4.35		40.0	9.7	157	1.11	0.54	260	5.6	4.55
PAYMASTER HS 26	312	B C	4.65		39.0	9.6	135	0.98	0.47	217	7.3	4.45
TAMCOT HQ95	262	C	5.06		40.0	8.9	126	1.04	0.50	195	6.5	4.20

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L.	UNIFORMITY	STRENGTH	E	Colorimeter	MICRONAIRE	OIL	NITROGEN	FREE	
	(inches)	(%)	(g/tex)		Rd Hunter's b	(Reading)	(%)	(%)	GOSSYPOL	
									(%)	
DELTAPINE 90	1.04	81.9	30.8	9.5	71.8	7.9	5.10	20.27	3.41	0.88
STONEVILLE 453	1.06	81.4	24.6	8.8	68.7	8.1	4.80	18.69	3.64	0.80
DELTAPINE 50	1.06	83.0	24.5	9.4	71.4	8.2	5.10	20.79	3.32	0.88
ACALA 1517-88	1.11	81.8	32.0	9.4	67.5	8.6	4.50	19.66	3.57	0.54
PAYMASTER HS 26	0.97	82.1	32.5	10.0	70.7	7.9	4.35	20.33	3.48	0.74
TAMCOT HQ95	1.05	82.2	26.3	8.3	71.5	8.1	4.25	19.10	3.68	0.54

VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 90	409	23.3	1.62	89	49.71	4.69	3.0
STONEVILLE 453	.	.	.	.	.	.	.
DELTAPINE 50	393	23.5	1.63	88	52.09	5.13	3.2
ACALA 1517-88	424	17.5	1.49	93	44.10	4.02	3.0
PAYMASTER HS 26	426	30.8	1.78	83	52.38	4.75	2.8
TAMCOT HQ95	.	.	.	.	.	.	.





1993 PLAINS REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
PAYMASTER 147	976	A	5.81	37.6	11.4	111	1.03	0.51	184	8.0	4.35
LANKART 142	951	B A	6.14	37.4	11.9	121	1.06	0.53	192	7.5	4.24
TAMCOT CD3H	947	B A	5.31	38.5	10.3	115	1.03	0.49	190	7.4	3.99
PAYMASTER HS 26	935	B A	5.45	36.6	11.3	133	1.04	0.53	224	8.8	4.68
DELTAPINE 50	925	B A C	4.79	36.4	10.5	118	1.10	0.52	192	8.7	4.40
PAYMASTER HS 200	924	B A C	5.29	36.5	10.8	134	1.09	0.54	222	7.5	4.50
DELTAPINE 90	924	B A C	4.56	38.4	9.8	139	1.09	0.52	231	7.5	4.28
GP 74+	912	B A C	5.51	36.0	11.6	110	1.08	0.51	177	7.7	3.94
SOUTHLAND 400	868	B D C	5.55	35.4	11.9	138	1.06	0.52	222	6.8	4.43
ALL-TEX QUICKIE	867	B D C	5.25	36.8	11.4	133	1.08	0.53	211	7.0	4.15
HOLLAND 1919	832	D C	5.41	37.2	10.8	126	1.07	0.52	200	7.8	4.03
ACALA 1517-88	808	D	4.94	37.8	11.3	153	1.15	0.55	242	6.8	4.13

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
PAYMASTER 147	1.02	81.3	24.8	9.8	77.8	8.0	4.45	19.67	3.62	0.84
LANKART 142	1.06	81.7	27.1	9.9	78.3	7.8	4.38	21.03	3.74	0.62

TAMCOT CD3H	1.04	80.4	24.9	9.5	77.4	7.6	4.03	21.77	3.67	0.65
PAYMASTER HS 26	1.06	82.0	30.7	10.9	77.6	7.5	4.63	21.10	3.54	0.86
DELTAPINE 50	1.09	81.8	26.1	10.2	78.9	7.6	4.50	20.13	3.43	0.85
PAYMASTER HS 200	1.09	81.9	30.0	9.9	78.1	7.8	4.50	21.08	3.57	0.83
DELTAPINE 90	1.11	81.6	31.3	10.0	77.8	7.8	4.28	20.74	3.56	0.87
GP 74+	1.09	81.0	24.0	9.7	78.5	7.4	3.96	20.37	3.61	0.65
SOUTHLAND 400	1.05	81.6	30.8	9.9	77.4	7.9	4.49	20.87	3.58	0.67
ALL-TEX QUICKIE	1.08	81.5	28.1	9.6	78.2	7.3	4.13	21.83	3.70	0.72
HOLLAND 1919	1.07	81.4	26.7	9.9	78.4	7.3	4.19	21.02	3.63	0.66
ACALA 1517-88	1.15	82.4	31.3	9.9	77.0	7.9	4.29	21.30	3.71	0.66

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
PAYMASTER 147	.	.	.	.	.	.	.
LANKART 142	.	.	.	.	.	.	.
TAMCOT CD3H	.	.	.	.	.	.	.
PAYMASTER HS 26	435	31.0	1.77	82	51.16	4.56	2.80
DELTAPINE 50	468	41.8	1.97	75	52.92	4.43	2.56
PAYMASTER HS 200	.	.	.	.	.	.	.
DELTAPINE 90	470	34.8	1.84	80	48.97	4.08	2.62
GP 74+	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.
ACALA 1517-88	465	31.6	1.77	82	47.77	3.99	2.68



1993 BLACKLAND REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

THRALL, TX

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
STONEVILLE 453	715	A	4.29	43.0	8.9	110	1.06	0.49	167	6.6	4.35
DELTAPINE 50	705	A	4.83	38.0	9.5	119	1.06	0.51	177	7.3	4.40
ACALA 1517-88	656	B A	4.83	40.5	10.0	156	1.12	0.54	238	5.6	4.60
DELTAPINE 90	640	B A	4.61	40.0	9.1	135	1.07	0.52	215	6.0	4.65
TAMCOT HQ95	532	B A	5.30	41.0	9.6	126	1.06	0.50	195	6.0	3.90
PAYMASTER HS 26	439	B	4.91	37.5	9.8	141	1.01	0.51	214	7.5	4.45

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
STONEVILLE 453	1.06	81.2	23.3	8.1	66.0	8.3	4.15	17.52	3.77	0.48
DELTAPINE 50	1.07	82.3	23.5	9.0	73.4	8.6	4.70	19.55	3.53	0.61
ACALA 1517-88	1.12	83.3	30.4	9.3	71.1	8.8	4.60	18.83	3.40	0.38
DELTAPINE 90	1.05	81.5	28.3	9.0	75.3	8.6	4.60	19.44	3.58	0.60
TAMCOT HQ95	1.06	81.4	25.5	8.3	73.5	8.8	3.85	17.78	3.78	0.45
PAYMASTER HS 26	1.02	82.8	31.1	10.0	70.8	8.3	4.30	19.36	3.49	0.56

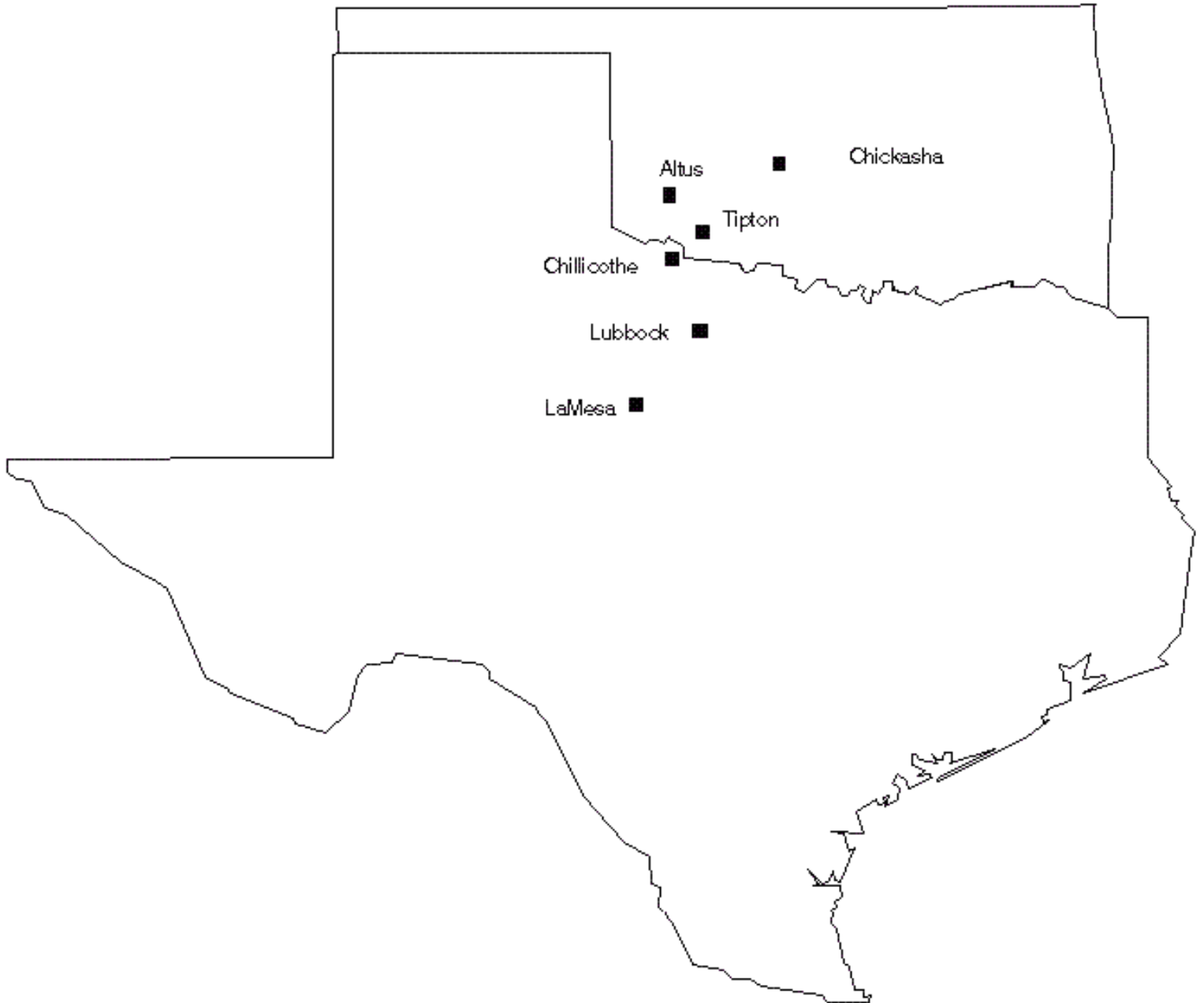
VARIETY	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STONEVILLE 453	.	.	.	.	.	.	.
DELTAPINE 50	431	35.5	1.86	79	54.32	4.87	2.8
ACALA 1517-88	450	30.8	1.77	83	49.50	4.25	2.7
DELTAPINE 90	424	27.0	1.70	85	50.31	4.59	2.9
TAMCOT HQ95	.	.	.	.	.	.	.
PAYMASTER HS 26	459	35.8	1.87	79	51.20	4.31	2.6



Plains Region Test Results

Cooperators

John Gannaway, Chairman
Bruce Greenhagen
Wayne Smith







1993 PLAINS REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT			SEED INDEX	LINT	
LANKART 142	6.14	A	TAMCOT CD3H	38.5	
A SOUTHLAND 400	11.9		A		
PAYMASTER 147	5.81	B	DELTAPINE 90	38.4	
A LANKART 142	11.9		B A		
SOUTHLAND 400	5.55	C B	ACALA 1517-88	37.8	B
A GP 74+	11.6		B A		
GP 74+	5.51	C B	PAYMASTER 147	37.6	B
A PAYMASTER 147	11.4		B A		
PAYMASTER HS 26	5.45	C	LANKART 142	37.4	B
A ALL-TEX QUICKIE	11.4		B A C		
HOLLAND 1919	5.41	C	HOLLAND 1919	37.2	B A
C ACALA 1517-88	11.3		B C		
TAMCOT CD3H	5.31	C	ALL-TEX QUICKIE	36.8	B
C PAYMASTER HS 26	11.3		B C		
PAYMASTER HS 200	5.29	C	PAYMASTER HS 26	36.6	B D
C PAYMASTER HS 200	10.8		D C		
ALL-TEX QUICKIE	5.25	C	PAYMASTER HS 200	36.5	B D
C HOLLAND 1919	10.8		E D C		
ACALA 1517-88	4.94	D	DELTAPINE 50	36.4	B D
C DELTAPINE 50	10.5		E D		
DELTAPINE 50	4.79	E D	GP 74+	36.0	D
C TAMCOT CD3H	10.3		E F		
DELTAPINE 90	4.56	E	SOUTHLAND 400	35.4	
D DELTAPINE 90	9.8		F		

YARN TENACITY

FIBROGRAPH--2.5% S.

L. FIBROGRAPH--50% S. L.

ACALA 1517-88	153	A	ACALA 1517-88	1.15	
A ACALA 1517-88		0.55	A		
DELTAPINE 90	139	B	DELTAPINE 50	1.10	
B PAYMASTER HS 200		0.54	B		
SOUTHLAND 400	138	B	DELTAPINE 90	1.09	
B PAYMASTER HS 26		0.53	C B		
PAYMASTER HS 200	134	B	PAYMASTER HS 200	1.09	C
B ALL-TEX QUICKIE		0.53	C B D		
ALL-TEX QUICKIE	133	C B	ALL-TEX QUICKIE	1.08	C B
D LANKART 142		0.53	C B D		
PAYMASTER HS 26	133	C B	GP 74+	1.08	C B
D DELTAPINE 90		0.52	C B D		
HOLLAND 1919	126	C D	HOLLAND 1919	1.07	C E
D DELTAPINE 50		0.52	C B D		
LANKART 142	121	E D	LANKART 142	1.06	E
D HOLLAND 1919		0.52	C B D		
DELTAPINE 50	118	E	SOUTHLAND 400	1.06	E
D SOUTHLAND 400		0.52	C B D		
TAMCOT CD3H	115	E F	PAYMASTER HS 26	1.04	F
E PAYMASTER 147		0.51	D		
PAYMASTER 147	111	F	TAMCOT CD3H	1.03	
F GP 74+		0.51	C D		
GP 74+	110	F	PAYMASTER 147	1.03	
F TAMCOT CD3H		0.49	E		

STELOMETER - T1

STELOMETER -

E1 MICRONAIRE

ACALA 1517-88	242	A	PAYMASTER HS 26	8.8	
A PAYMASTER HS 26		4.68	A		
DELTAPINE 90	231	B	DELTAPINE 50	8.7	
A PAYMASTER HS 200		4.50	B A		
PAYMASTER HS 26	224	B	PAYMASTER 147	8.0	
B SOUTHLAND 400		4.43	B A C		

1993 PLAINS REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

SOUTHLAND 400	222	B	HOLLAND 1919	7.8	
B DELTAPINE 50		4.40	B A C		
PAYMASTER HS 200	222	B	GP 74+	7.7	
B PAYMASTER 147		4.35	B A C		
ALL-TEX QUICKIE	211	C	DELTAPINE 90	7.5	C
B DELTAPINE 90		4.28	B A C		
HOLLAND 1919	200	D	LANKART 142	7.5	C
B LANKART 142		4.24	B A C		
LANKART 142	192	E D	PAYMASTER HS 200	7.5	C
B ALL-TEX QUICKIE		4.15	B A C		
DELTAPINE 50	192	E D	TAMCOT CD3H	7.4	C
B ACALA 1517-88		4.13	B C		
TAMCOT CD3H	190	E D	ALL-TEX QUICKIE	7.0	C
D HOLLAND 1919		4.03	B C		
PAYMASTER 147	184	E F	SOUTHLAND 400	6.8	
D TAMCOT CD3H		3.99	B C		
GP 74+	177	F	ACALA 1517-88	6.8	
D GP 74+		3.94	C		

 2.5% S.L. (INCHES)
 (PERCENT)

 UR
 STRENGTH (G/TEX)

ACALA 1517-88	1.15	A	ACALA 1517-88	82.4	
A ACALA 1517-88		31.3	A		
DELTAPINE 90	1.11	B	PAYMASTER HS 26	82.0	B
A DELTAPINE 90		31.3	A		
DELTAPINE 50	1.09	C B	PAYMASTER HS 200	81.9	B A
C SOUTHLAND 400		30.8	A		
PAYMASTER HS 200	1.09	C B	DELTAPINE 50	81.8	B A
C PAYMASTER HS 26		30.7	A		
GP 74+	1.09	C B	LANKART 142	81.7	B A
C PAYMASTER HS 200		30.0	A		
ALL-TEX QUICKIE	1.08	C B D	SOUTHLAND 400	81.6	B A
C ALL-TEX QUICKIE		28.1	B		
HOLLAND 1919	1.07	C E D	DELTAPINE 90	81.6	B A
C LANKART 142		27.1	C B		
PAYMASTER HS 26	1.06	F E D	ALL-TEX QUICKIE	81.5	B A
C HOLLAND 1919		26.7	C B		
LANKART 142	1.06	F E D	HOLLAND 1919	81.4	B D
C DELTAPINE 50		26.1	C D		

1993 PLAINS REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

SOUTHLAND 400	1.05	F E	PAYMASTER 147	81.3	B D
C TAMCOT CD3H		24.9 E D			
TAMCOT CD3H	1.04	F G	GP 74+	81.0	D
C PAYMASTER 147		24.8 E D			
PAYMASTER 147	1.02	G	TAMCOT CD3H	80.4	
D GP 74+		24.0 E			

E

COLORIMETER - b

COLORIMETER -

PAYMASTER HS 26	10.9	A	DELTAPINE 50	78.9	
A PAYMASTER 147		8.0	A		
DELTAPINE 50	10.2	B	GP 74+	78.5	B
A ACALA 1517-88		7.9 B A			
DELTAPINE 90	10.0	C B	HOLLAND 1919	78.4	B
A SOUTHLAND 400		7.9 B A			
PAYMASTER HS 200	9.9	C B	LANKART 142	78.3	B A
C DELTAPINE 90		7.8 B A C			
SOUTHLAND 400	9.9	C B	ALL-TEX QUICKIE	78.2	B A
C LANKART 142		7.8 B A C			
HOLLAND 1919	9.9	C B	PAYMASTER HS 200	78.1	B A
C PAYMASTER HS 200		7.8 B A C			
LANKART 142	9.9	C B	DELTAPINE 90	77.8	B A
C TAMCOT CD3H		7.6 DB A C			
ACALA 1517-88	9.9	C B D	PAYMASTER 147	77.8	B A
C DELTAPINE 50		7.6 DB	C		
PAYMASTER 147	9.8	C D	PAYMASTER HS 26	77.6	B A
C PAYMASTER HS 26		7.5 D	C		
GP 74+	9.7	C E D	TAMCOT CD3H	77.4	B
C GP 74+		7.4 D			
ALL-TEX QUICKIE	9.6	E D	SOUTHLAND 400	77.4	B
C ALL-TEX QUICKIE		7.3 D			
TAMCOT CD3H	9.5	E	ACALA 1517-88	77.0	
C HOLLAND 1919		7.3 D			

MICRONAIRE (SL-HVI)

OIL

(PERCENT)

NITROGEN (PERCENT)

PAYMASTER HS 26	4.63	A	ALL-TEX QUICKIE	21.83	
A LANKART 142	3.74		A		
DELTAPINE 50	4.50	B A	TAMCOT CD3H	21.77	
A ACALA 1517-88	3.71		B A		
PAYMASTER HS 200	4.50	B A	ACALA 1517-88	21.30	B
A ALL-TEX QUICKIE	3.70		B A C		
SOUTHLAND 400	4.49	B A	PAYMASTER HS 26	21.10	B A
C TAMCOT CD3H	3.67		DB A C		
PAYMASTER 147	4.45	B A	PAYMASTER HS 200	21.08	B A
C HOLLAND 1919	3.63		DBEA C		
LANKART 142	4.38	B A C	LANKART 142	21.03	B A
C PAYMASTER 147	3.62		DBE C		
ACALA 1517-88	4.29	B A C	HOLLAND 1919	21.02	B A
C GP 74+	3.61		DBE C		
DELTAPINE 90	4.28	B A C	SOUTHLAND 400	20.87	B A
C SOUTHLAND 400	3.58		D E C		
HOLLAND 1919	4.19	B A C	DELTAPINE 90	20.74	DB A
C PAYMASTER HS 200	3.57		D E		
ALL-TEX QUICKIE	4.13	B C	GP 74+	20.37	DB
C DELTAPINE 90	3.56		D E		
TAMCOT CD3H	4.03	B C	DELTAPINE 50	20.13	D
C PAYMASTER HS 26	3.54		EF		
GP 74+	3.96	C	PAYMASTER 147	19.67	
D DELTAPINE 50	3.43		F		

 FREE GOSSYPOL (PERCENT)

DELTAPINE 90	0.87	A
PAYMASTER HS 26	0.86	B A
DELTAPINE 50	0.85	B A
PAYMASTER 147	0.84	B A
PAYMASTER HS 200	0.83	B A
ALL-TEX QUICKIE	0.72	B C
SOUTHLAND 400	0.67	C
ACALA 1517-88	0.66	C
HOLLAND 1919	0.66	C
TAMCOT CD3H	0.65	C
GP 74+	0.65	C

LANKART 142 0.62 C

 AREALOMETER - A (mm²/mm³)
 mm³) AREALOMETER - I

 AREALOMETER - D (mm²/

 DELTAPINE 90 470 A
 A DELTAPINE 50 2.0
 DELTAPINE 50 468 A
 A DELTAPINE 90 1.8 B A
 ACALA 1517-88 465 A
 B PAYMASTER HS 26 1.8
 PAYMASTER HS 26 435 A
 B ACALA 1517-88 1.8

 DELTAPINE 50 41.8
 A
 DELTAPINE 90 34.8 B
 A
 ACALA 1517-88 31.6
 B
 PAYMASTER HS 26 31.0
 B

 AREALOMETER - M (PERCENT)
 (Microns) AREALOMETER -w (MG/INCH)

 AREALOMETER - p

 PAYMASTER HS 26 82 A
 A PAYMASTER HS 26 4.56
 ACALA 1517-88 82 A
 A DELTAPINE 50 4.43 B A
 DELTAPINE 90 80 B A
 C DELTAPINE 90 4.08 B A
 DELTAPINE 50 75 B
 C ACALA 1517-88 3.99 B

 DELTAPINE 50 52.92
 A
 PAYMASTER HS 26 51.16 B
 A
 DELTAPINE 90 48.97 B
 B A
 ACALA 1517-88 47.77

 AREALOMETER - t (MICRONS)

 PAYMASTER HS 26 2.80 A

ACALA 1517-88	2.68	A
DELTAPINE 90	2.62	A
DELTAPINE 50	2.56	A





1993 PLAINS REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

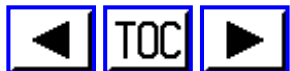
LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
LUBBOCK, TX (IRR)	1166	A	5.16	36.8	.	127	1.08	0.53	206	7.9	4.13
TIPTON, OK	1151	A	5.54	36.3	10.9	.	.	.	.	.	.
ALTUS, OK (IRR)	967	B	5.71	34.6	11.0	129	1.11	0.54	199	8.2	3.88
CHICKASHA, OK (DRY)	901	B	5.55	40.0	11.0	129	1.06	0.52	219	7.4	5.16
CHICKASHA, OK (IRR)	767	C	5.59	38.3	11.5	.	.	.	.	.	.
CHILLICOTHE, TX (DRY)	701	C	.	.	.	.	.	.	.	.	.
LAMESA, TX (DRY)	544	D	4.46	36.3	.	126	1.04	0.49	205	7.1	3.85

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
LUBBOCK, TX (IRR)	1.09	81.3	28.3	10.1	81.9	8.2	4.17	20.94	3.70	0.73
TIPTON, OK	.	.	.	.	.	.	.	.	.	.
ALTUS, OK (IRR)	1.12	82.6	25.4	9.8	75.4	6.7	3.98	21.27	3.47	0.85
CHICKASHA, OK (DRY)	1.06	82.2	30.0	10.0	73.1	7.2	5.28	21.52	3.67	0.80
CHICKASHA, OK (IRR)	.	.	.	.	.	.	.	.	.	.
CHILLICOTHE, TX (DRY)	.	.	.	.	.	.	.	.	.	.
LAMESA, TX (DRY)	1.04	80.1	28.2	9.8	81.4	8.5	3.84	19.90	3.61	0.58

LOCATION	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
LUBBOCK, TX (IRR)	470	40.9	1.96	75	52.63	4.34	2.5
TIPTON, OK	.	.	.	.	.	.	.
ALTUS, OK (IRR)	508	42.8	1.99	74	49.27	3.79	2.4
CHICKASHA, OK (DRY)	393	18.4	1.51	92	48.06	4.72	3.3
CHICKASHA, OK (IRR)	.	.	.	.	.	.	.
CHILLICOTHE, TX (DRY)	.	.	.	.	.	.	.
LAMESA, TX (DRY)	468	37.1	1.89	78	50.85	4.20	2.5



LANKART 142	.	.	.	.	.	.	.	.	.	.
DELTAPINE 90	.	.	.	.	.	.	.	.	.	.
PAYMASTER HS 26	.	.	.	.	.	.	.	.	.	.
PAYMASTER HS 200	.	.	.	.	.	.	.	.	.	.
GP 74+	.	.	.	.	.	.	.	.	.	.
DELTAPINE 50	.	.	.	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.	.	.	.

Arealometer Data

VARIETY	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
PAYMASTER 147
TAMCOT CD3H
LANKART 142
DELTAPINE 90
PAYMASTER HS 26
PAYMASTER HS 200
GP 74+
DELTAPINE 50
SOUTHLAND 400
ALL-TEX QUICKIE
ACALA 1517-88
HOLLAND 1919



1993 PLAINS REGIONAL COTTON VARIETY TEST

SUBREGIONAL SUMMARY COMBINING ALTUS, OK (IRR); CHICKASHA, OK (DRY); CHICKASHA, OK (IRR); CHILLICOTHE, TX (DRY); TIPTON, OK

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
PAYMASTER 147	979	A	6.12	38.8	11.4	114	1.04	0.52	187	8.2	4.70
LANKART 142	969	A	6.46	37.8	11.9	118	1.06	0.53	191	7.9	4.40
DELTAPINE 50	960	A	5.01	36.0	10.5	117	1.12	0.53	192	8.6	4.50
TAMCOT CD3H	957	A	5.50	39.0	10.3	118	1.04	0.50	197	7.3	4.33
PAYMASTER HS 26	955	A	5.75	37.1	11.3	132	1.05	0.53	225	8.8	5.08
PAYMASTER HS 200	940	B A	5.48	36.8	10.8	136	1.11	0.55	226	7.4	4.88
DELTAPINE 90	934	B A	4.71	38.4	9.8	137	1.10	0.54	223	7.9	4.45
GP 74+	934	B A	5.81	36.1	11.6	114	1.10	0.52	181	8.2	4.23
ALL-TEX QUICKIE	894	B A	5.49	37.2	11.4	133	1.08	0.54	213	7.3	4.60
SOUTHLAND 400	886	B A	5.86	35.4	11.9	142	1.08	0.53	225	7.0	4.53
HOLLAND 1919	865	B A	5.78	37.1	10.8	130	1.08	0.53	204	8.0	4.30
ACALA 1517-88	818	B	5.21	38.0	11.3	158	1.17	0.57	249	6.9	4.28

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
PAYMASTER 147	1.03	82.3	25.0	9.9	73.9	7.5	4.88	20.27	3.63	1.00

LANKART 142	1.07	82.3	26.6	9.8	75.2	7.1	4.60	21.58	3.73	0.71
DELTAPINE 50	1.11	82.4	25.5	10.1	75.7	6.8	4.75	20.66	3.34	0.88
TAMCOT CD3H	1.04	81.6	24.7	9.5	73.7	7.0	4.35	22.43	3.57	0.77
PAYMASTER HS 26	1.07	82.8	30.7	11.0	73.8	7.0	5.03	21.75	3.51	0.91
PAYMASTER HS 200	1.10	82.6	29.8	9.9	74.1	7.1	4.88	22.02	3.55	0.99
DELTAPINE 90	1.12	82.2	30.2	9.9	74.8	7.3	4.45	20.77	3.50	0.96
GP 74+	1.11	82.2	23.6	9.7	74.5	6.6	4.28	20.66	3.59	0.70
ALL-TEX QUICKIE	1.09	82.8	28.8	9.6	74.3	6.5	4.55	22.61	3.64	0.87
SOUTHLAND 400	1.07	82.3	30.0	9.9	73.5	7.3	4.68	21.39	3.53	0.77
HOLLAND 1919	1.09	82.1	26.3	9.9	74.1	6.6	4.58	21.30	3.60	0.68
ACALA 1517-88	1.17	83.3	31.4	9.8	73.3	7.2	4.55	21.28	3.70	0.65

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
PAYMASTER 147	.	.	.	.	.	.	.
LANKART 142	.	.	.	.	.	.	.
DELTAPINE 50	470	38.5	1.90	77	51.03	4.33	2.6
TAMCOT CD3H	.	.	.	.	.	.	.
PAYMASTER HS 26	412	25.0	1.65	87	50.40	4.73	3.0
PAYMASTER HS 200	.	.	.	.	.	.	.
DELTAPINE 90	467	33.9	1.80	81	48.26	4.10	2.7
GP 74+	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.
ACALA 1517-88	455	25.1	1.64	88	44.99	3.87	2.9



1993 PLAINS REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

LUBBOCK, TX (IRR)

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
PAYMASTER 147	1406	A	5.98	36.8	.	110	1.05	0.53	179	8.3	4.60
TAMCOT CD3H	1236	B	5.27	39.1	.	118	1.03	0.50	186	7.6	3.75
PAYMASTER HS 200	1234	B	5.20	36.5	.	135	1.10	0.54	220	8.0	4.40
PAYMASTER HS 26	1230	B	5.31	35.5	.	133	1.05	0.54	218	9.5	4.45
LANKART 142	1217	B	5.82	36.5	.	126	1.08	0.54	193	7.3	4.10
GP 74+	1184	C B	5.30	35.3	.	107	1.09	0.51	171	7.4	3.65
DELTAPINE 90	1142	C B D	4.47	38.2	.	144	1.11	0.53	245	7.9	4.00
SOUTHLAND 400	1129	C B D	5.11	36.2	.	129	1.07	0.53	220	7.0	4.50
ACALA 1517-88	1090	C B D	4.86	36.4	.	152	1.17	0.55	240	7.0	3.75
DELTAPINE 50	1078	C B D	4.63	36.2	.	121	1.11	0.53	197	9.4	4.35
ALL-TEX QUICKIE	1054	C D	5.20	37.1	.	134	1.09	0.53	214	7.0	4.05
HOLLAND 1919	992	D	4.79	37.8	.	121	1.07	0.53	191	8.3	4.00

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
PAYMASTER 147	1.04	81.0	24.8	10.0	82.1	8.3	4.60	20.25	3.58	0.72
TAMCOT CD3H	1.06	80.2	25.9	10.0	82.4	8.0	3.85	22.39	3.73	0.62

PAYMASTER HS 200	1.10	81.9	29.4	10.0	82.2	8.4	4.35	20.83	3.66	0.73
PAYMASTER HS 26	1.08	81.7	30.4	11.0	81.8	8.0	4.45	20.93	3.57	0.87
LANKART 142	1.08	81.4	27.9	10.0	81.8	8.3	4.25	21.01	3.81	0.61
GP 74+	1.11	80.9	24.1	10.0	82.6	7.9	3.75	20.09	3.80	0.70
DELTAPINE 90	1.11	81.2	33.0	10.0	79.9	8.5	4.00	20.39	3.71	0.86
SOUTHLAND 400	1.07	81.0	32.1	10.0	81.4	8.4	4.50	21.36	3.68	0.64
ACALA 1517-88	1.18	82.3	31.2	10.0	81.4	8.5	3.90	21.64	3.72	0.75
DELTAPINE 50	1.09	82.0	26.4	10.5	82.8	8.1	4.30	19.80	3.61	0.92
ALL-TEX QUICKIE	1.09	81.4	27.8	9.8	82.0	7.9	4.00	21.75	3.80	0.66
HOLLAND 1919	1.07	81.0	27.3	10.0	82.5	7.9	4.05	20.93	3.72	0.68

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
PAYMASTER 147	.	.	.	.	.	.	.
TAMCOT CD3H	.	.	.	.	.	.	.
PAYMASTER HS 200	.	.	.	.	.	.	.
PAYMASTER HS 26	444	36.3	1.88	78	53.23	4.63	2.7
LANKART 142	.	.	.	.	.	.	.
GP 74+	.	.	.	.	.	.	.
DELTAPINE 90	479	38.3	1.92	77	50.38	4.07	2.5
SOUTHLAND 400	.	.	.	.	.	.	.
ACALA 1517-88	493	42.0	1.99	74	50.56	3.96	2.4
DELTAPINE 50	463	47.3	2.07	71	56.37	4.70	2.5
ALL-TEX QUICKIE	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.



1993 PLAINS REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

ALTUS, OK (IRR)

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
PAYMASTER HS 26	1194	A	6.36	34.6	11.8	134	1.10	0.57	214	8.9	4.45
PAYMASTER HS 200	1082	B	6.06	34.8	11.1	134	1.14	0.57	208	7.8	4.70
TAMCOT CD3H	1036	C B	5.53	36.2	9.9	123	1.07	0.51	194	7.3	3.80
PAYMASTER 147	1020	C B D	5.67	37.0	11.1	108	1.05	0.52	175	8.6	4.05
SOUTHLAND 400	1008	EC B D	5.91	33.3	11.8	134	1.09	0.54	213	7.3	4.05
ALL-TEX QUICKIE	965	EC F D	5.57	35.1	11.3	135	1.10	0.55	200	7.5	3.90
HOLLAND 1919	932	EC F D	5.73	35.8	10.6	130	1.09	0.54	194	8.4	3.95
ACALA 1517-88	916	E F D	5.56	34.7	11.6	159	1.21	0.59	238	7.5	3.65
LANKART 142	904	E F	6.42	34.7	11.4	118	1.09	0.54	185	7.9	3.65
DELTAPINE 50	897	E F	4.83	31.7	10.2	119	1.13	0.52	179	9.5	3.50
GP 74+	889	F	6.18	33.4	12.0	116	1.12	0.54	174	8.6	3.65
DELTAPINE 90	759	G	4.70	34.3	9.3	139	1.10	0.54	220	8.9	3.25

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
PAYMASTER HS 26	1.12	83.6	27.9	11.0	74.2	6.7	4.50	21.88	3.45	0.89
PAYMASTER HS 200	1.14	83.4	26.6	9.8	75.7	6.9	4.45	22.44	3.40	1.12

TAMCOT CD3H	1.09	82.4	24.2	9.4	74.6	6.4	3.60	22.37	3.51	0.74
PAYMASTER 147	1.04	81.6	23.3	9.8	74.8	7.4	4.35	19.62	3.54	1.02
SOUTHLAND 400	1.08	82.3	27.4	9.8	75.1	7.2	4.30	21.39	3.49	0.82
ALL-TEX QUICKIE	1.10	82.1	25.3	9.2	74.9	6.1	4.05	22.71	3.57	0.87
HOLLAND 1919	1.12	82.3	24.8	10.0	75.7	6.4	4.15	21.58	3.50	0.75
ACALA 1517-88	1.22	84.3	28.5	9.6	74.4	6.8	4.05	21.76	3.51	0.74
LANKART 142	1.11	82.8	24.6	9.6	76.7	6.9	3.65	21.08	3.60	0.72
DELTAPINE 50	1.15	82.6	22.4	9.7	77.0	6.7	3.60	20.62	3.18	0.95
GP 74+	1.13	82.1	22.4	9.9	74.7	6.3	3.65	20.64	3.52	0.72
DELTAPINE 90	1.14	82.4	27.7	9.9	77.1	7.4	3.40	19.18	3.37	0.86

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
PAYMASTER HS 26	431	30.3	1.77	83	51.49	4.61	2.8
PAYMASTER HS 200	.	.	.	.	.	.	.
TAMCOT CD3H	.	.	.	.	.	.	.
PAYMASTER 147	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.
ACALA 1517-88	508	35.8	1.87	79	46.24	3.55	2.4
LANKART 142	.	.	.	.	.	.	.
DELTAPINE 50	547	53.3	2.17	67	49.92	3.53	2.1
GP 74+	.	.	.	.	.	.	.
DELTAPINE 90	547	52.0	2.15	68	49.44	3.49	2.1



1993 PLAINS REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

CHICKASHA, OK (DRY)

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DELTAPINE 90	1046	A	4.82	42.4	9.7	136	1.10	0.53	227	6.9	5.65
PAYMASTER 147	1029	B A	6.06	40.4	11.9	120	1.04	0.53	199	7.8	5.35
DELTAPINE 50	1027	B A C	5.12	38.8	10.7	115	1.12	0.53	205	7.8	5.50
LANKART 142	944	DB A C	6.33	40.4	11.9	118	1.03	0.52	197	7.9	5.15
GP 74+	909	DB A C	5.73	38.6	11.5	112	1.08	0.51	188	7.8	4.80
PAYMASTER HS 26	868	DB A C	5.79	40.1	11.0	130	0.99	0.50	235	8.8	5.70
TAMCOT CD3H	862	DB C	5.60	42.5	10.0	113	1.01	0.49	199	7.4	4.85
HOLLAND 1919	846	D C	5.90	39.2	10.8	130	1.06	0.53	214	7.6	4.65
SOUTHLAND 400	846	D C	5.52	38.1	11.4	150	1.07	0.53	238	6.8	5.00
ALL-TEX QUICKIE	831	D	5.29	40.5	11.2	131	1.07	0.54	225	7.0	5.30
PAYMASTER HS 200	818	D	5.22	38.0	10.8	138	1.08	0.53	243	7.1	5.05
ACALA 1517-88	785	D	5.24	40.7	11.1	156	1.13	0.55	260	6.4	4.90

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
DELTAPINE 90	1.10	82.1	32.7	10.0	72.6	7.2	5.50	22.36	3.63	1.06
PAYMASTER 147	1.03	82.9	26.8	10.0	73.1	7.6	5.40	20.92	3.72	0.99

DELTAPINE 50	1.07	82.2	28.6	10.5	74.3	6.9	5.90	20.71	3.49	0.82
LANKART 142	1.04	81.9	28.7	10.0	73.7	7.3	5.55	22.08	3.86	0.70
GP 74+	1.08	82.3	24.9	9.6	74.3	7.0	4.90	20.69	3.66	0.69
PAYMASTER HS 26	1.02	82.0	33.5	11.0	73.5	7.3	5.55	21.63	3.56	0.94
TAMCOT CD3H	1.00	80.8	25.3	9.6	72.9	7.6	5.10	22.49	3.63	0.80
HOLLAND 1919	1.07	82.0	27.7	9.9	72.5	6.9	5.00	21.02	3.70	0.61
SOUTHLAND 400	1.06	82.3	32.6	10.0	72.0	7.4	5.05	21.39	3.57	0.73
ALL-TEX QUICKIE	1.09	83.5	32.2	10.0	73.8	7.0	5.05	22.52	3.72	0.87
PAYMASTER HS 200	1.06	81.9	33.0	10.0	72.5	7.2	5.30	21.61	3.71	0.86
ACALA 1517-88	1.12	82.3	34.3	10.0	72.2	7.5	5.05	20.80	3.89	0.56

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 90	387	15.8	1.45	95	47.08	4.72	3.3
PAYMASTER 147	.	.	.	.	.	.	.
DELTAPINE 50	393	23.8	1.63	88	52.13	5.13	3.2
LANKART 142	.	.	.	.	.	.	.
GP 74+	.	.	.	.	.	.	.
PAYMASTER HS 26	393	19.8	1.54	91	49.30	4.85	3.2
TAMCOT CD3H	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.
PAYMASTER HS 200	.	.	.	.	.	.	.
ACALA 1517-88	402	14.5	1.40	97	43.75	4.20	3.4

DELTAPINE 90	.	.	.	.	.	.	.	.	.
PAYMASTER 147	.	.	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.	.	.
GP 74+	.	.	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.	.	.
PAYMASTER HS 200	.	.	.	.	.	.	.	.	.
DELTAPINE 50	.	.	.	.	.	.	.	.	.
PAYMASTER HS 26	.	.	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.	.	.

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
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TAMCOT CD3H
LANKART 142
DELTAPINE 90
PAYMASTER 147
ALL-TEX QUICKIE
GP 74+
HOLLAND 1919
PAYMASTER HS 200	.	.	.	.	.	.	.
DELTAPINE 50	.	.	.	.	.	.	.
PAYMASTER HS 26	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.

LANKART 142	.	.	.	.	.	.	.	.	.	.
PAYMASTER 147	.	.	.	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.	.	.	.
PAYMASTER HS 26	.	.	.	.	.	.	.	.	.	.
DELTAPINE 50	.	.	.	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.	.	.	.
DELTAPINE 90	.	.	.	.	.	.	.	.	.	.
TAMCOT CD3H	.	.	.	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.	.	.	.

Arealometer Data

VARIETY	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
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PAYMASTER HS 200
GP 74+
LANKART 142
PAYMASTER 147
HOLLAND 1919
PAYMASTER HS 26
DELTAPINE 50	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.
DELTAPINE 90	.	.	.	.	.	.	.
TAMCOT CD3H	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.



1993 PLAINS REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

LAMESA, TX (DRY)

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
DELTAPINE 90	651	A	4.10	38.7	.	137	1.06	0.50	234	6.5	4.20
TAMCOT CD3H	600	B A	4.62	36.2	.	107	1.01	0.46	180	7.4	3.55
LANKART 142	584	B A C	5.19	36.7	.	124	1.03	0.50	194	7.1	4.05
DELTAPINE 50	579	B A C	4.05	38.1	.	119	1.04	0.49	187	8.0	4.25
PAYMASTER HS 26	532	B D C	4.39	35.8	.	135	1.03	0.52	228	8.3	4.10
ALL-TEX QUICKIE	531	B D C	4.33	35.0	.	133	1.06	0.49	207	6.6	3.35
PAYMASTER 147	531	B D C	4.37	33.8	.	107	0.99	0.47	183	7.4	3.40
PAYMASTER HS 200	527	B D C	4.61	35.6	.	132	1.05	0.51	218	7.1	3.85
GP 74+	524	B D C	4.55	36.4	.	107	1.05	0.49	176	7.1	3.65
SOUTHLAND 400	504	B D C	4.74	34.5	.	139	1.02	0.50	218	6.3	4.15
HOLLAND 1919	494	D C	4.57	36.6	.	125	1.05	0.49	200	7.1	3.50
ACALA 1517-88	476	D	3.97	38.7	.	146	1.11	0.53	231	6.1	4.20

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
DELTAPINE 90	1.08	80.7	31.7	10.0	81.9	8.3	4.20	21.02	3.55	0.69
TAMCOT CD3H	1.00	78.5	24.3	8.9	79.9	8.6	3.55	19.83	3.80	0.43

LANKART 142	1.01	80.6	27.5	10.0	81.0	8.6	4.05	19.96	3.68	0.48
DELTAPINE 50	1.05	80.4	27.0	10.0	81.6	8.7	4.20	19.41	3.46	0.74
PAYMASTER HS 26	1.02	80.9	31.1	10.5	81.1	8.2	4.00	19.97	3.56	0.74
ALL-TEX QUICKIE	1.06	78.9	27.0	9.3	82.2	8.3	3.40	20.34	3.72	0.51
PAYMASTER 147	0.99	79.7	24.5	9.5	81.5	8.6	3.45	17.88	3.63	0.62
PAYMASTER HS 200	1.06	80.4	31.0	10.0	82.0	8.6	3.90	19.46	3.53	0.61
GP 74+	1.03	78.6	24.6	9.4	82.3	8.4	3.55	20.08	3.45	0.50
SOUTHLAND 400	1.01	81.0	31.1	10.0	81.0	8.6	4.10	19.33	3.60	0.48
HOLLAND 1919	1.05	80.3	27.1	9.9	83.1	8.1	3.55	20.54	3.61	0.60
ACALA 1517-88	1.09	80.8	31.3	9.9	80.0	8.9	4.15	21.01	3.75	0.60

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 90	468	33.3	1.82	81	48.98	4.05	2.6
TAMCOT CD3H	.	.	.	.	.	.	.
LANKART 142	.	.	.	.	.	.	.
DELTAPINE 50	472	43.0	2.00	74	53.25	4.36	2.5
PAYMASTER HS 26	473	37.8	1.91	78	50.62	4.14	2.5
ALL-TEX QUICKIE	.	.	.	.	.	.	.
PAYMASTER 147	.	.	.	.	.	.	.
PAYMASTER HS 200	.	.	.	.	.	.	.
GP 74+	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.
ACALA 1517-88	458	34.3	1.84	80	50.53	4.27	2.6

GP 74+	.	.	.	.	.	.	.	.	.	.
PAYMASTER HS 200	.	.	.	.	.	.	.	.	.	.
DELTAPINE 90	.	.	.	.	.	.	.	.	.	.
TAMCOT CD3H	.	.	.	.	.	.	.	.	.	.
PAYMASTER 147	.	.	.	.	.	.	.	.	.	.
PAYMASTER HS 26	.	.	.	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.	.	.	.

Arealometer Data

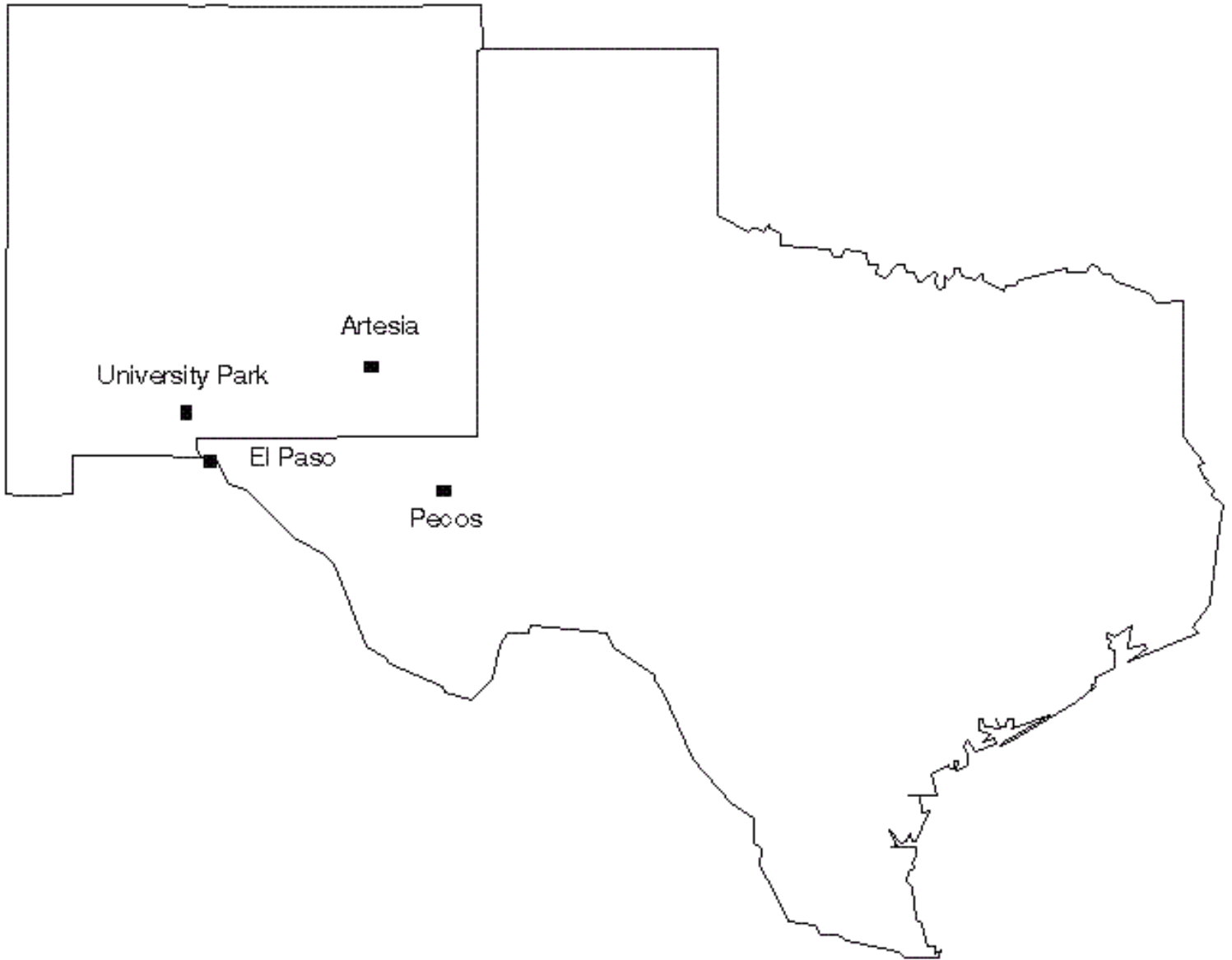
VARIETY	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
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DELTAPINE 50
LANKART 142
GP 74+
PAYMASTER HS 200
DELTAPINE 90
TAMCOT CD3H
PAYMASTER 147
PAYMASTER HS 26	.	.	.	.	.	.	.
SOUTHLAND 400	.	.	.	.	.	.	.
ALL-TEX QUICKIE	.	.	.	.	.	.	.
HOLLAND 1919	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.

Western Region Test Results

Cooperators

Roy Cantrell, Chairman
Naomi Assidian
Carl Barnes
John Gannaway





1993 WESTERN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DELTAPINE 90	1357	A	4.91	40.4	10.1	135	1.14	0.55	206	7.6	4.58
CHEMBRED CBX1210	1347	A	4.58	41.2	10.0	139	1.14	0.56	212	7.2	4.59
ACALA 1517-91	1249	B A	4.64	41.7	11.0	150	1.15	0.57	237	7.0	4.60
McNAIR 220	1238	B A	5.42	40.2	11.6	125	1.09	0.53	189	6.8	4.68
ACALA 1517-88	1223	B A	4.63	39.5	10.2	151	1.16	0.56	226	6.8	4.43
DELTAPINE 50	1220	B A	4.63	38.6	10.6	112	1.12	0.54	173	8.7	4.80
ALL-TEX MAX-9	1174	B A C	5.01	39.2	11.7	148	1.17	0.58	224	7.2	4.29
ACALA B4 222	1170	B A C	5.08	38.4	11.7	150	1.18	0.57	230	6.8	4.29
ACALA 1517 SR-3	1113	B C	4.45	39.7	11.6	161	1.18	0.59	251	6.9	4.26
COKER 320	1091	B C	5.29	41.3	11.0	132	1.12	0.54	194	6.6	4.93
ACALA GC 510	1059	B C	5.10	39.7	11.3	159	1.15	0.58	240	6.8	4.33
PAYMASTER HS 26	1058	B C	5.37	38.6	10.6	128	1.05	0.54	209	9.3	4.80
ACALA PREMA	1005	C	5.14	39.2	11.0	170	1.17	0.59	262	6.8	4.18

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
DELTAPINE 90	1.13	82.6	29.7	9.5	79.0	8.4	4.49	22.27	3.28	0.95

CHEMBRED CBX1210	1.14	82.3	28.8	9.7	79.6	8.5	4.71	22.80	3.20	0.83
ACALA 1517-91	1.15	83.7	30.4	9.4	79.5	8.7	4.55	23.99	3.38	0.74
McNAIR 220	1.09	82.0	26.0	9.5	79.1	8.8	4.70	22.66	3.26	0.84
ACALA 1517-88	1.16	82.9	30.4	9.3	78.5	8.9	4.39	22.35	3.34	0.67
DELTAPINE 50	1.12	82.5	24.4	10.5	80.2	8.6	4.83	21.41	3.26	0.91
ALL-TEX MAX-9	1.17	82.9	30.5	9.7	78.3	8.7	4.18	22.53	3.27	0.72
ACALA B4 222	1.18	82.5	29.1	9.6	78.2	8.3	4.23	22.19	3.31	0.75
ACALA 1517 SR-3	1.18	83.8	32.1	9.5	78.9	8.5	4.35	22.38	3.45	0.69
COKER 320	1.12	82.6	26.8	9.2	77.9	8.5	4.91	22.26	3.29	0.83
ACALA GC 510	1.13	83.3	31.4	9.7	78.7	8.6	4.39	22.55	3.54	0.50
PAYMASTER HS 26	1.05	81.7	28.7	10.3	79.1	8.6	4.81	21.80	3.16	0.82
ACALA PREMA	1.17	83.6	31.7	9.8	78.7	8.4	4.08	23.00	3.35	0.56

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 90	432	30.9	1.77	82	51.56	4.64	2.82
CHEMBRED CBX1210	.	.	.	.	.	.	.
ACALA 1517-91	.	.	.	.	.	.	.
McNAIR 220	.	.	.	.	.	.	.
ACALA 1517-88	442	28.6	1.73	84	49.13	4.29	2.75
DELTAPINE 50	421	33.9	1.84	80	54.69	5.02	2.84
ALL-TEX MAX-9	.	.	.	.	.	.	.
ACALA B4 222	.	.	.	.	.	.	.
ACALA 1517 SR-3	.	.	.	.	.	.	.
COKER 320	.	.	.	.	.	.	.
ACALA GC 510	.	.	.	.	.	.	.
PAYMASTER HS 26	414	26.3	1.68	86	51.12	4.78	2.96
ACALA PREMA	.	.	.	.	.	.	.



1993 WESTERN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT				SEED INDEX			LINT	
McNAIR 220	5.42	A		ACALA 1517-91	41.7			
A ACALA B4 222	11.7			A				
PAYMASTER HS 26	5.37	B A		COKER 320	41.3		B	
A ALL-TEX MAX-9	11.7			A				
COKER 320	5.29	B A		CHEMBRED CBX1210	41.2		B A	
C McNAIR 220	11.6		A					
ACALA PREMA	5.14	B A C		DELTAPINE 90	40.4		DB A	
C ACALA 1517 SR-3	11.6		A					
ACALA GC 510	5.10	B A C		McNAIR 220	40.2		DBEA	
C ACALA GC 510	11.3		A					
ACALA B4 222	5.08	B A C		ACALA GC 510	39.7		DBE	
C COKER 320	11.0		A					
ALL-TEX MAX-9	5.01	B A C		ACALA 1517 SR-3	39.7		DBE	
C ACALA 1517-91	11.0		A					
DELTAPINE 90	4.91	B A C		ACALA 1517-88	39.5		D E	
C ACALA PREMA	11.0		A					
ACALA 1517-91	4.64	B A C		ALL-TEX MAX-9	39.2		D	
E PAYMASTER HS 26	10.6			A				
DELTAPINE 50	4.63	B A C		ACALA PREMA	39.2		D	
E DELTAPINE 50	10.6			A				
ACALA 1517-88	4.63	B A C		PAYMASTER HS 26	38.6			
E ACALA 1517-88	10.2			A				
CHEMBRED CBX1210	4.58	B C		DELTAPINE 50	38.6			
E DELTAPINE 90	10.1			A				
ACALA 1517 SR-3	4.45	C		ACALA B4 222	38.4			
E CHEMBRED CBX1210	10.0			A				

YARN TENACITY

FIBROGRAPH--2.5% S.

L. FIBROGRAPH--50% S. L.

ACALA PREMA	170	A	ACALA 1517 SR-3	1.18	
A	ACALA PREMA	0.59	A		
ACALA 1517 SR-3	161	B	ACALA B4 222	1.18	
A	ACALA 1517 SR-3	0.59	A		
ACALA GC 510	159	B	ACALA PREMA	1.17	B
A	ACALA GC 510	0.58	B A		
ACALA 1517-88	151	C	ALL-TEX MAX-9	1.17	B
A	ALL-TEX MAX-9	0.58	B A		
ACALA B4 222	150	C	ACALA 1517-88	1.16	B
A	ACALA 1517-91	0.57	B A C		
ACALA 1517-91	150	C	ACALA 1517-91	1.15	B
A	ACALA B4 222	0.57	B C		
ALL-TEX MAX-9	148	C	ACALA GC 510	1.15	B
C	ACALA 1517-88	0.56	D C		
CHEMBRED CBX1210	139	D	DELTAPINE 90	1.14	B
C	CHEMBRED CBX1210	0.56	E D C		
DELTAPINE 90	135	E D	CHEMBRED CBX1210	1.14	B
C	DELTAPINE 90	0.55	E D		
COKER 320	132	E F	DELTAPINE 50	1.12	
C	COKER 320	0.54	E D F		
PAYMASTER HS 26	128	F	COKER 320	1.12	
C	PAYMASTER HS 26	0.54	E F		
McNAIR 220	125	F	McNAIR 220	1.09	
D	DELTAPINE 50	0.54	E F		
DELTAPINE 50	112	G	PAYMASTER HS 26	1.05	
E	McNAIR 220	0.53	F		

STELOMETER - T1

STELOMETER -

E1 MICRONAIRE

ACALA PREMA	262	A	PAYMASTER HS 26	9.3
A	COKER 320	4.93	A	

1993 WESTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

ACALA 1517 SR-3	251	B	DELTAPINE 50	8.7	
B PAYMASTER HS 26	4.80	B A			
ACALA GC 510	240	C	DELTAPINE 90	7.6	
C DELTAPINE 50	4.80	B A			
ACALA 1517-91	237	D C	CHEMBRED CBX1210	7.2	D
C McNAIR 220	4.68	B A C			
ACALA B4 222	230	D C E	ALL-TEX MAX-9	7.2	D
C ACALA 1517-91	4.60	B D C			
ACALA 1517-88	226	D E	ACALA 1517-91	7.0	D
E CHEMBRED CBX1210	4.59	EB D C			
ALL-TEX MAX-9	224	E	ACALA 1517 SR-3	6.9	D
E DELTAPINE 90	4.58	EB D C			
CHEMBRED CBX1210	212	F	ACALA GC 510	6.8	D
E ACALA 1517-88	4.43	EF D C			
PAYMASTER HS 26	209	F	ACALA B4 222	6.8	D
E ACALA GC 510	4.33	EF D			
DELTAPINE 90	206	F	McNAIR 220	6.8	D
E ACALA B4 222	4.29	EF D			
COKER 320	194	G	ACALA 1517-88	6.8	D
E ALL-TEX MAX-9	4.29	EF D			
McNAIR 220	189	G	ACALA PREMA	6.8	D
E ACALA 1517 SR-3	4.26	EF			
DELTAPINE 50	173	H	COKER 320	6.6	
E ACALA PREMA	4.18	F			

 2.5% S.L. (INCHES)
 (PERCENT)

 UR
 STRENGTH (G/TEX)

ACALA 1517 SR-3	1.18	A	ACALA 1517 SR-3	83.8	
A ACALA 1517 SR-3	32.1	A			
ACALA B4 222	1.18	A	ACALA 1517-91	83.7	
A ACALA PREMA	31.7	B A			
ACALA PREMA	1.17	A	ACALA PREMA	83.6	B
A ACALA GC 510	31.4	B A			
ALL-TEX MAX-9	1.17	A	ACALA GC 510	83.3	B A
C ALL-TEX MAX-9	30.5	B A C			
ACALA 1517-88	1.16	B A	ACALA 1517-88	82.9	B D
C ACALA 1517-91	30.4	B D C			
ACALA 1517-91	1.15	B A C	ALL-TEX MAX-9	82.9	B D
C ACALA 1517-88	30.4	B D C			

1993 WESTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

CHEMBRED CBX1210	1.14	B D C	COKER 320	82.6	E D
C DELTAPINE 90	29.7	E D C			
DELTAPINE 90	1.13	D C	DELTAPINE 90	82.6	E D
C ACALA B4 222	29.1	E D C			
ACALA GC 510	1.13	D C	DELTAPINE 50	82.5	E D
F CHEMBRED CBX1210	28.8	E D			
DELTAPINE 50	1.12	D	ACALA B4 222	82.5	E D
F PAYMASTER HS 26	28.7	E			
COKER 320	1.12	E D	CHEMBRED CBX1210	82.3	E D
F COKER 320	26.8	F			
McNAIR 220	1.09	E	McNAIR 220	82.0	E
F McNAIR 220	26.0	F			
PAYMASTER HS 26	1.05	F	PAYMASTER HS 26	81.7	
F DELTAPINE 50	24.4	G			

 E
 Rd COLORIMETER - b

DELTAPINE 50	10.5	A	DELTAPINE 50	80.2	
A ACALA 1517-88	8.9		A		
PAYMASTER HS 26	10.3	B A	CHEMBRED CBX1210	79.6	B
A McNAIR 220	8.8	B A			
ACALA PREMA	9.8	B C	ACALA 1517-91	79.5	B
A ACALA 1517-91	8.7	B A C			
ACALA GC 510	9.7	B C	McNAIR 220	79.1	B A
C ALL-TEX MAX-9	8.7	B A C			
CHEMBRED CBX1210	9.7	B C	PAYMASTER HS 26	79.1	B A
C ACALA GC 510	8.6	B A C			
ALL-TEX MAX-9	9.7	B C	DELTAPINE 90	79.0	B A
C PAYMASTER HS 26	8.6	B D C			
ACALA B4 222	9.6	B C	ACALA 1517 SR-3	78.9	B
C DELTAPINE 50	8.6	B D C			
DELTAPINE 90	9.5	C	ACALA PREMA	78.7	B
C CHEMBRED CBX1210	8.5	B D C			
ACALA 1517 SR-3	9.5	C	ACALA GC 510	78.7	B
C COKER 320	8.5	B D C			
McNAIR 220	9.5	C	ACALA 1517-88	78.5	B
C ACALA 1517 SR-3	8.5	D C			
ACALA 1517-91	9.4	C	ALL-TEX MAX-9	78.3	B
C DELTAPINE 90	8.4	D C			

1993 WESTERN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

ACALA 1517-88	9.3	C	ACALA B4 222	78.2	B
C ACALA PREMA		8.4	D C		
COKER 320	9.2	C	COKER 320	77.9	
C ACALA B4 222		8.3	D		

 MICRONAIRE (SL-HVI)
 (PERCENT)

 OIL
 NITROGEN (PERCENT)

COKER 320	4.91	A
A ACALA GC 510		3.54
DELTAPINE 50	4.83	B A
B ACALA 1517 SR-3		3.45
PAYMASTER HS 26	4.81	B A
B ACALA 1517-91		3.38
CHEMBRED CBX1210	4.71	B A C
B ACALA PREMA		3.35
McNAIR 220	4.70	B A C
B ACALA 1517-88		3.34
ACALA 1517-91	4.55	B D C
B ACALA B4 222		3.31
DELTAPINE 90	4.49	EB D C
D COKER 320		3.29
ACALA 1517-88	4.39	EF D C
D DELTAPINE 90		3.28
ACALA GC 510	4.39	EF D C
D ALL-TEX MAX-9		3.27
ACALA 1517 SR-3	4.35	EF D C
D McNAIR 220		3.26
ACALA B4 222	4.23	EF D
D DELTAPINE 50		3.26
ALL-TEX MAX-9	4.18	EF
D CHEMBRED CBX1210		3.20
ACALA PREMA	4.08	F
D PAYMASTER HS 26		3.16

ACALA 1517-91	23.99	
A ACALA PREMA		23.00
B A CHEMBRED CBX1210		22.80
B C McNAIR 220		22.66
B C D ACALA GC 510		22.55
B C D ALL-TEX MAX-9		22.53
C D ACALA 1517 SR-3		22.38
E C D ACALA 1517-88		22.35
E C D DELTAPINE 90		22.27
E C D COKER 320		22.26
E C D ACALA B4 222		22.19
E D PAYMASTER HS 26		21.80
E DELTAPINE 50		21.41

 FREE GOSSYPOL (PERCENT)

	DELTAPINE 90	0.95	A
	DELTAPINE 50	0.91	A
	McNAIR 220	0.84	B A
	COKER 320	0.83	B A
	CHEMBRED CBX1210	0.83	B A
	PAYMASTER HS 26	0.82	B A
C			
	ACALA B4 222	0.75	B D
C			
	ACALA 1517-91	0.74	B D
C			
	ALL-TEX MAX-9	0.72	B D
C			
	ACALA 1517 SR-3	0.69	D
C			
	ACALA 1517-88	0.67	E D
	ACALA PREMA	0.56	E F
	ACALA GC 510	0.50	F

 AREALOMETER - A (mm²/mm³)
 mm³) AREALOMETER - I

 AREALOMETER - D (mm²/

ACALA 1517-88	442	A
A DELTAPINE 50	1.8	
DELTAPINE 90	432	B A
A DELTAPINE 90	1.8	
DELTAPINE 50	421	B A
B ACALA 1517-88	1.7	
PAYMASTER HS 26	414	B
B PAYMASTER HS 26	1.7	

DELTAPINE 50	33.9	
A		
DELTAPINE 90	30.9	B
B A		
ACALA 1517-88	28.6	
B		
PAYMASTER HS 26	26.3	
B		

 AREALOMETER - M (PERCENT)
 (Microns) AREALOMETER -w (MG/INCH)

 AREALOMETER - p

PAYMASTER HS 26	86	A
A DELTAPINE 50		5.02
ACALA 1517-88	84	A
B PAYMASTER HS 26		4.78
DELTAPINE 90	82	B A
B DELTAPINE 90		4.64
DELTAPINE 50	80	B
C ACALA 1517-88		4.29

DELTAPINE 50	54.69
A DELTAPINE 90	51.56
B A PAYMASTER HS 26	51.12
B ACALA 1517-88	49.13
C	

AREALOMETER - t (MICRONS)

PAYMASTER HS 26	2.96	A
DELTAPINE 50	2.84	A
DELTAPINE 90	2.82	A
ACALA 1517-88	2.75	A





1993 WESTERN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
UNIVERSITY PARK, NM	1645	A .	40.7	.	146	1.18	0.59	215	7.5	4.69
ARTESIA, NM (IRR)	1317	B 6.24	39.9	10.9	145	1.17	0.57	214	7.3	4.65
EL PASO, TX (IRR)	1149	C 4.85	39.1	11.0	141	1.15	0.56	215	7.8	4.41
PECOS, TX (IRR)	585	D 3.73	38.6	.	139	1.06	0.52	233	6.5	4.32

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
UNIVERSITY PARK, NM	1.18	83.8	28.4	10.1	78.8	8.4	4.67	25.08	3.04	0.91
ARTESIA, NM (IRR)	1.17	83.9	28.7	8.6	80.0	8.3	4.56	24.48	3.06	0.94
EL PASO, TX (IRR)	1.14	83.0	29.4	10.0	78.0	8.4	4.40	20.87	3.57	0.60
PECOS, TX (IRR)	1.06	80.5	30.5	9.9	78.8	9.2	4.41	19.47	3.58	0.57

Arealometer Data

LOCATION	A	D	I	M	p	w	t
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(mm²/mm³)(mm²/mm³)

(%)

(microns)

(mg/inch)

(microns)

UNIVERSITY PARK, NM	430	33.4	1.82	81	53.30	4.80	2.8
ARTESIA, NM (IRR)	420	30.6	1.77	83	52.69	4.86	2.9
EL PASO, TX (IRR)	429	28.4	1.73	84	50.61	4.58	2.8
PECOS, TX (IRR)	430	27.4	1.71	85	49.91	4.49	2.8





1993 WESTERN REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

UNIVERSITY PARK, NM

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
CHEMBRED CBX1210	1878	A .	41.4	.	152	1.20	0.59	209	7.1	4.55
DELTAPINE 90	1838	B A .	41.4	.	142	1.20	0.59	206	8.0	4.70
ACALA 1517-91	1812	B A .	42.9	.	150	1.17	0.58	233	7.0	4.80
ACALA 1517-88	1805	B A .	40.5	.	154	1.21	0.59	229	6.8	4.45
DELTAPINE 50	1760	B A C .	38.8	.	117	1.19	0.58	168	9.0	4.70
McNAIR 220	1692	DB A C .	41.4	.	132	1.14	0.57	183	7.6	4.70
ALL-TEX MAX-9	1670	DB A C .	39.8	.	146	1.20	0.61	215	7.1	4.60
ACALA B4 222	1662	DB C .	39.4	.	155	1.23	0.60	228	7.0	4.50
ACALA 1517 SR-3	1591	D C .	41.4	.	160	1.21	0.61	243	6.8	4.65
ACALA PREMA	1538	D E .	39.4	.	168	1.18	0.60	248	7.0	4.45
ACALA GC 510	1525	D E .	41.3	.	161	1.18	0.60	225	7.4	4.65
COKER 320	1354	F E .	43.5	.	137	1.14	0.57	196	6.6	5.35
PAYMASTER HS 26	1256	F .	38.7	.	129	1.08	0.56	207	9.8	4.90

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
CHEMBRED CBX1210	1.20	83.4	27.3	10.0	79.9	8.2	4.70	25.56	2.89	0.89

DELTAPINE 90	1.20	83.4	26.9	10.0	77.9	8.4	4.65	24.37	3.00	1.28
ACALA 1517-91	1.17	84.2	30.5	10.0	80.6	8.5	4.60	26.94	3.17	0.85
ACALA 1517-88	1.22	83.6	29.6	10.0	78.6	8.7	4.45	24.75	3.02	0.84
DELTAPINE 50	1.18	83.8	23.0	11.0	80.5	8.4	4.75	23.95	3.05	1.16
McNAIR 220	1.15	83.4	25.2	9.9	79.1	8.7	4.70	25.12	2.79	1.00
ALL-TEX MAX-9	1.19	83.7	31.1	10.0	77.5	8.6	4.55	25.04	2.95	0.89
ACALA B4 222	1.22	83.8	28.5	10.0	78.5	8.1	4.35	25.40	3.06	0.93
ACALA 1517 SR-3	1.22	85.2	31.6	10.0	79.7	8.2	4.60	24.61	3.34	0.87
ACALA PREMA	1.18	83.8	31.1	10.0	78.5	8.4	4.40	26.63	3.00	0.67
ACALA GC 510	1.17	84.8	30.2	10.0	79.6	8.4	4.55	25.13	3.29	0.59
COKER 320	1.13	84.1	26.6	10.0	76.0	8.0	5.30	24.94	3.06	0.95
PAYMASTER HS 26	1.09	82.7	27.4	11.0	78.6	8.3	5.05	23.65	2.97	0.91

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
CHEMBRED CBX1210	.	.	.	.	.	.	.
DELTAPINE 90	443	36.0	1.88	79	53.27	4.66	2.7
ACALA 1517-91	.	.	.	.	.	.	.
ACALA 1517-88	443	31.0	1.78	82	50.47	4.40	2.7
DELTAPINE 50	430	38.8	1.93	77	56.29	5.06	2.8
McNAIR 220	.	.	.	.	.	.	.
ALL-TEX MAX-9	.	.	.	.	.	.	.
ACALA B4 222	.	.	.	.	.	.	.
ACALA 1517 SR-3	.	.	.	.	.	.	.
ACALA PREMA	.	.	.	.	.	.	.
ACALA GC 510	.	.	.	.	.	.	.
COKER 320	.	.	.	.	.	.	.
PAYMASTER HS 26	405	27.8	1.71	85	53.18	5.08	3.0



1993 WESTERN REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

EL PASO, TX (IRR)

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
ACALA 1517-88	1375	A	4.57	39.3	9.8	152	1.18	0.57	219	7.0	4.40
DELTAPINE 50	1291	B A	4.61	39.1	11.1	111	1.11	0.53	169	9.1	4.95
DELTAPINE 90	1282	B A	5.31	38.8	10.2	135	1.13	0.53	201	8.4	4.40
ACALA 1517-91	1254	B A	3.86	41.7	9.9	150	1.19	0.59	240	7.6	4.50
CHEMBRED CBX1210	1228	B A	4.19	41.1	10.7	136	1.14	0.54	210	7.8	4.55
ALL-TEX MAX-9	1200	B A	5.07	41.4	11.8	147	1.18	0.57	220	7.8	3.95
ACALA 1517 SR-3	1153	B A	3.75	37.5	11.6	162	1.21	0.60	253	7.6	4.20
PAYMASTER HS 26	1152	B A	5.65	38.5	10.4	126	1.05	0.54	204	10	4.90
COKER 320	1075	B A	5.67	39.6	11.5	124	1.14	0.55	189	7.5	4.50
McNAIR 220	1020	B A	5.77	37.3	12.7	121	1.08	0.52	181	7.1	4.75
ACALA PREMA	1012	B A	4.77	38.9	10.2	167	1.18	0.58	256	7.3	3.95
ACALA GC 510	952	B	4.74	36.9	11.6	159	1.17	0.59	240	6.9	4.20
ACALA B4 222	944	B	5.16	38.8	11.9	146	1.20	0.57	217	7.3	4.10

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
ACALA 1517-88	1.16	82.5	30.5	10.0	78.5	8.9	4.30	20.64	3.62	0.54

DELTAPINE 50	1.11	83.3	25.4	10.0	78.6	8.5	4.95	19.78	3.49	0.75
DELTAPINE 90	1.13	82.2	32.0	10.0	79.0	7.9	3.95	20.76	3.59	0.67
ACALA 1517-91	1.19	84.4	29.5	9.8	78.7	8.6	4.60	23.00	3.51	0.61
CHEMBRED CBX1210	1.14	82.4	28.8	10.0	78.6	8.3	4.70	20.75	3.56	0.89
ALL-TEX MAX-9	1.19	83.3	29.7	10.0	77.7	8.8	4.00	21.32	3.55	0.49
ACALA 1517 SR-3	1.19	83.9	31.6	10.0	77.6	8.1	4.30	21.16	3.73	0.48
PAYMASTER HS 26	1.06	82.3	30.2	11.0	77.7	8.9	4.55	20.77	3.30	0.73
COKER 320	1.14	82.4	26.5	9.9	76.5	8.4	4.45	19.46	3.55	0.63
McNAIR 220	1.10	82.0	26.3	9.8	78.2	8.4	4.70	21.07	3.63	0.68
ACALA PREMA	1.16	84.3	30.4	10.0	78.4	8.0	4.15	21.32	3.57	0.48
ACALA GC 510	1.14	83.4	32.1	10.0	77.6	8.6	4.45	21.00	3.81	0.41
ACALA B4 222	1.19	82.8	29.2	10.0	77.5	8.1	4.05	20.36	3.54	0.53

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
ACALA 1517-88	450	30.0	1.76	83	49.22	4.24	2.7
DELTAPINE 50	410	28.0	1.72	85	52.70	4.97	3.0
DELTAPINE 90	452	31.8	1.80	82	49.87	4.26	2.7
ACALA 1517-91	.	.	.	.	.	.	.
CHEMBRED CBX1210	.	.	.	.	.	.	.
ALL-TEX MAX-9	.	.	.	.	.	.	.
ACALA 1517 SR-3	.	.	.	.	.	.	.
PAYMASTER HS 26	404	23.8	1.63	88	50.65	4.84	3.1
COKER 320	.	.	.	.	.	.	.
McNAIR 220	.	.	.	.	.	.	.
ACALA PREMA	.	.	.	.	.	.	.
ACALA GC 510	.	.	.	.	.	.	.
ACALA B4 222	.	.	.	.	.	.	.



1993 WESTERN REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

PECOS, TX (IRR)

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
CHEMBRED CBX1210	755	A	3.80	40.4	.	130	1.07	0.53	228	6.1	4.55
McNAIR 220	733	B A	4.02	39.4	.	115	1.02	0.49	198	5.8	4.45
DELTAPINE 90	709	B A C	3.79	40.8	.	127	1.04	0.51	214	6.8	4.75
COKER 320	647	DB A C	3.67	39.3	.	124	1.05	0.51	193	5.5	4.90
ACALA GC 510	598	DB E C	3.80	38.9	.	157	1.08	0.53	258	6.1	3.95
DELTAPINE 50	576	D E C	3.60	37.6	.	104	1.03	0.50	181	7.3	4.80
ALL-TEX MAX-9	557	D E C	3.64	37.1	.	149	1.10	0.54	244	6.5	4.10
PAYMASTER HS 26	556	D E C	3.75	38.2	.	125	1.00	0.50	223	8.5	4.50
ACALA 1517-91	512	D E	3.75	39.6	.	150	1.09	0.53	254	6.3	4.30
ACALA PREMA	509	D E	3.79	38.3	.	175	1.12	0.56	287	6.4	3.65
ACALA B4 222	498	D E	3.69	36.0	.	152	1.11	0.53	257	6.3	4.00
ACALA 1517 SR-3	480	E	3.60	37.5	.	165	1.09	0.53	265	6.3	3.75
ACALA 1517-88	476	E	3.65	38.3	.	141	1.05	0.50	231	6.3	4.40

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
CHEMBRED CBX1210	1.06	80.7	30.9	10.0	79.4	9.2	4.80	20.29	3.49	0.56

McNAIR 220	1.01	79.8	26.1	9.3	78.8	9.5	4.55	20.07	3.66	0.70
DELTAPINE 90	1.03	80.2	31.2	10.0	79.3	9.2	4.90	20.55	3.47	0.73
COKER 320	1.04	80.0	26.1	9.4	79.3	9.3	5.00	19.96	3.61	0.62
ACALA GC 510	1.06	81.0	33.2	10.0	77.2	9.4	4.10	19.43	3.74	0.41
DELTAPINE 50	1.04	79.9	24.9	10.0	80.0	9.0	4.90	18.48	3.51	0.59
ALL-TEX MAX-9	1.09	81.0	32.1	10.0	78.3	9.2	4.05	19.47	3.48	0.63
PAYMASTER HS 26	0.97	79.4	29.6	10.0	79.1	9.0	4.70	18.79	3.45	0.66
ACALA 1517-91	1.07	81.0	32.4	10.0	78.7	9.2	4.40	20.42	3.70	0.58
ACALA PREMA	1.11	81.8	34.1	10.0	78.2	8.9	3.65	19.42	3.71	0.42
ACALA B4 222	1.10	80.1	30.9	10.0	78.6	9.2	4.00	18.12	3.62	0.53
ACALA 1517 SR-3	1.12	81.1	33.7	10.0	78.8	9.2	3.80	18.53	3.50	0.51
ACALA 1517-88	1.06	80.7	31.7	9.7	78.4	9.5	4.50	19.54	3.67	0.53

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
CHEMBRED CBX1210	.	.	.	.	.	.	.
McNAIR 220	.	.	.	.	.	.	.
DELTAPINE 90	419	26.0	1.68	86	50.19	4.63	2.9
COKER 320	.	.	.	.	.	.	.
ACALA GC 510	.	.	.	.	.	.	.
DELTAPINE 50	420	30.8	1.78	83	53.13	4.89	2.9
ALL-TEX MAX-9	.	.	.	.	.	.	.
PAYMASTER HS 26	438	27.0	1.70	85	48.83	4.31	2.8
ACALA 1517-91	.	.	.	.	.	.	.
ACALA PREMA	.	.	.	.	.	.	.
ACALA B4 222	.	.	.	.	.	.	.
ACALA 1517 SR-3	.	.	.	.	.	.	.
ACALA 1517-88	442	25.8	1.67	86	47.48	4.15	2.8



1993 WESTERN REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

ARTESIA, NM (IRR)

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
DELTAPINE 90	1562	A	5.63	39.5	10.1	136	1.19	0.57	202	7.4	4.45
CHEMBRED CBX1210	1469	B A	5.74	41.9	9.4	140	1.17	0.57	202	7.9	4.70
ACALA B4 222	1465	B A	6.39	38.6	11.6	149	1.19	0.58	217	6.8	4.55
ACALA 1517-91	1419	B A	6.33	41.3	12.2	150	1.17	0.59	220	7.3	4.80
McNAIR 220	1399	B A	6.47	41.5	10.6	131	1.12	0.55	195	6.5	4.80
PAYMASTER HS 26	1315	B C	6.73	38.8	10.8	131	1.08	0.56	203	8.9	4.90
ACALA 1517-88	1315	B C	5.68	39.1	10.7	156	1.20	0.57	224	7.0	4.45
DELTAPINE 50	1289	B C	5.70	38.6	10.2	117	1.16	0.56	174	9.3	4.75
COKER 320	1281	B C	6.54	40.7	10.6	142	1.16	0.56	199	6.6	4.95
ALL-TEX MAX-9	1281	B C	6.33	38.2	11.6	150	1.20	0.59	216	7.3	4.50
ACALA 1517 SR-3	1250	B C	6.01	40.7	11.6	159	1.21	0.61	243	7.0	4.45
ACALA GC 510	1106	D C	6.75	40.4	11.0	160	1.17	0.59	236	7.0	4.50
ACALA PREMA	965	D	6.86	40.0	11.8	170	1.19	0.59	258	6.4	4.65

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
DELTAPINE 90	1.18	84.7	28.9	8.1	79.9	8.3	4.45	23.40	3.07	1.14

CHEMBRED CBX1210	1.16	82.7	28.4	8.7	80.4	8.5	4.65	24.60	2.89	0.99
ACALA B4 222	1.20	83.3	27.8	8.6	78.4	7.9	4.50	24.88	3.01	1.03
ACALA 1517-91	1.19	85.5	29.4	7.7	79.9	8.5	4.60	25.63	3.13	0.94
McNAIR 220	1.12	82.8	26.7	8.9	80.6	8.7	4.85	24.38	2.98	1.00
PAYMASTER HS 26	1.09	82.5	27.7	9.2	81.0	8.2	4.95	23.98	2.91	0.98
ACALA 1517-88	1.22	85.0	29.9	7.6	78.8	8.6	4.30	24.47	3.04	0.77
DELTAPINE 50	1.14	83.0	24.5	11.0	81.9	8.4	4.70	23.43	3.01	1.14
COKER 320	1.16	84.2	27.9	7.4	79.8	8.4	4.90	24.68	2.96	1.12
ALL-TEX MAX-9	1.21	83.8	29.1	8.7	79.9	8.1	4.10	24.30	3.11	0.89
ACALA 1517 SR-3	1.20	85.0	31.5	8.0	79.5	8.5	4.70	25.24	3.26	0.92
ACALA GC 510	1.15	84.2	30.1	9.0	80.4	8.3	4.45	24.64	3.33	0.62
ACALA PREMA	1.22	84.4	31.3	9.1	79.9	8.2	4.10	24.64	3.11	0.67

Arealometer Data

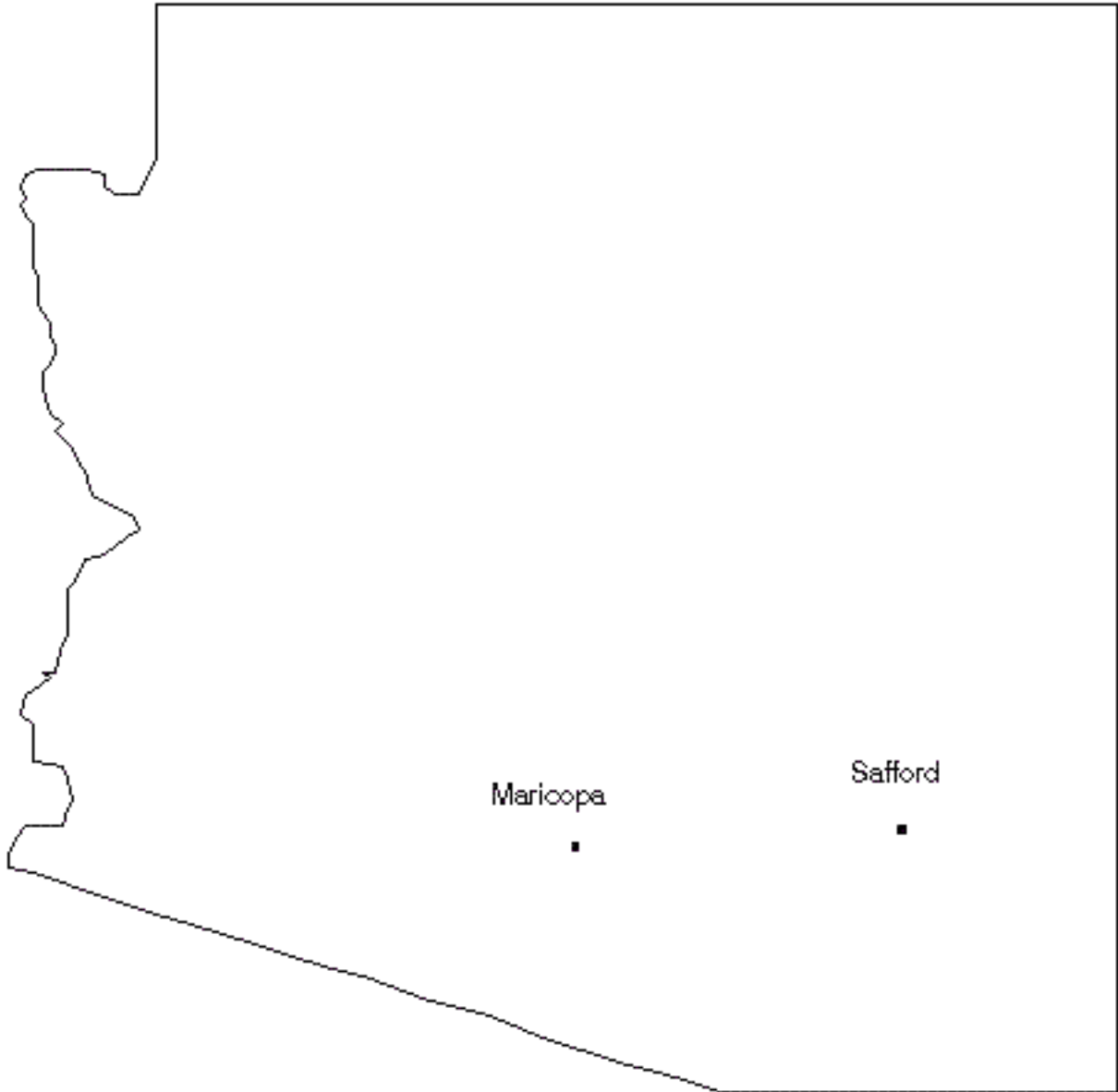
VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 90	412	29.8	1.74	84	52.93	5.01	3.0
CHEMBRED CBX1210	.	.	.	.	.	.	.
ACALA B4 222	.	.	.	.	.	.	.
ACALA 1517-91	.	.	.	.	.	.	.
McNAIR 220	.	.	.	.	.	.	.
PAYMASTER HS 26	410	26.5	1.69	86	51.82	4.89	3.0
ACALA 1517-88	435	27.8	1.71	85	49.35	4.38	2.8
DELTAPINE 50	425	38.3	1.92	77	56.66	5.15	2.8
COKER 320	.	.	.	.	.	.	.
ALL-TEX MAX-9	.	.	.	.	.	.	.
ACALA 1517 SR-3	.	.	.	.	.	.	.
ACALA GC 510	.	.	.	.	.	.	.
ACALA PREMA	.	.	.	.	.	.	.



Arizona Region Test Results

Cooperators

John Nelson, Chairman







1993 ARIZONA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

Varieties combining locations could not be statistically evaluated.





1993 ARIZONA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
MARICOPA, AZ	1644	A 5.61	38.8	10.5	127	1.14	0.55	209	6.4	5.06
SAFFORD, AZ	1342	B 4.77	39.0	9.4	131	1.13	0.55	215	6.9	4.61

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
MARICOPA, AZ	1.14	83.5	27.0	4.9	69.6	12	5.21	21.53	3.54	1.04
SAFFORD, AZ	1.11	83.2	28.1	5.5	66.7	10	4.64	20.80	3.46	0.88

Arealometer Data

LOCATION	Arealometer Data						
	A (mm ² /mm ³)	D (mm ² /mm ³)	I (%)	M (%)	p (microns)	w (mg/inch)	t (microns)

MARICOPA, AZ	392	19.9	1.54	91	49.43	4.87	3.2
SAFFORD, AZ	414	26.3	1.68	86	51.16	4.79	3.0





1993 ARIZONA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

SAFFORD, AZ

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
HS46	1713	A	4.72	40.4	9.3	127	1.13	0.53	195	6.8	4.10
STV KC311	1616	B A	4.19	38.1	8.5	128	1.13	0.55	208	6.3	4.60
CB 1233	1552	B A C	4.72	39.4	8.5	123	1.11	0.54	206	6.6	4.75
S-1001	1533	B A C	4.55	38.6	8.4	130	1.14	0.53	218	7.1	4.05
DELTAPINE 90	1527	B A C	4.47	38.7	9.0	129	1.13	0.53	217	6.3	4.60
HY 39	1460	DB A C	4.25	38.7	8.9	131	1.18	0.56	213	6.3	4.75
DPL 5690	1456	DB A C	4.63	39.7	8.7	119	1.11	0.54	213	6.6	4.65
GC 9033	1418	DB A C	4.34	44.3	8.8	133	1.11	0.54	203	6.4	4.65
CHEMBRED 407	1400	DB C	4.42	39.7	8.7	128	1.13	0.54	211	6.9	4.60
ALL-TEX MAX-9	1393	DB E C	4.76	38.9	8.9	124	1.12	0.55	210	6.9	4.60
OA6	1329	DBFE C	4.65	38.4	8.8	127	1.12	0.54	213	6.4	4.80
STV LA 887	1316	DBFEGC	5.48	42.1	10.0	122	1.13	0.56	210	7.6	4.80
STONEVILLE 1324	1304	D FEGC	4.39	39.1	9.5	124	1.13	0.55	197	6.1	4.50
SUREGROW 501	1206	D FEG	4.52	40.0	8.6	134	1.07	0.54	225	7.8	5.00
PHY B638	1195	D FEG	6.04	37.5	10.9	157	1.15	0.58	227	6.5	4.55
DELTAPINE 50	1176	D FEG	4.82	36.7	9.9	107	1.10	0.54	180	8.1	5.00
ACALA 1517-88	1098	FEG	4.86	38.1	10.2	149	1.14	0.56	229	6.3	4.60
ACALA 1517-91	1093	FEG	5.46	39.1	11.8	175	1.39	0.61	289	7.3	3.65
PAYMASTER HS 26	1035	F G	5.07	36.5	10.4	111	1.01	0.52	201	8.5	4.95
AGC 2008	1026	G	5.12	37.3	10.2	140	1.08	0.55	231	6.9	4.95

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
HS46	1.14	82.2	29.2	5.9	64.8	9.9	3.90	21.80	3.36	1.03
STV KC311	1.13	83.3	28.8	5.3	64.7	9.6	4.45	19.35	3.45	0.97
CB 1233	1.09	82.9	26.8	5.3	68.2	11	4.90	20.90	3.39	1.01
S-1001	1.14	83.6	30.1	5.8	64.5	9.5	3.90	20.13	3.37	0.93
DELTAPINE 90	1.09	82.3	27.4	5.6	67.4	11	4.75	20.54	3.47	0.93
HY 39	1.14	83.6	28.1	5.2	67.9	11	4.75	19.49	3.21	0.96
DPL 5690	1.10	82.3	27.8	5.2	68.5	11	4.70	21.48	3.45	0.91
GC 9033	1.11	84.0	27.9	5.3	68.0	11	4.90	21.29	3.49	1.00
CHEMBRED 407	1.10	82.9	27.8	5.3	68.9	11	4.75	21.17	3.37	0.96
ALL-TEX MAX-9	1.10	82.2	27.5	5.0	68.1	11	4.65	21.14	3.47	0.92
OA6	1.10	83.4	28.0	5.0	66.8	10	4.85	21.03	3.34	0.99
STV LA 887	1.11	83.6	26.4	5.8	67.7	11	4.95	21.18	3.45	1.01
STONEVILLE 1324	1.10	82.4	26.5	4.9	66.8	11	4.55	21.40	3.71	0.74
SUREGROW 501	1.05	83.0	26.3	6.0	66.7	10	5.05	19.39	3.53	1.02
PHY B638	1.15	85.1	30.8	5.9	68.3	11	4.55	20.91	3.62	0.70
DELTAPINE 50	1.08	82.9	22.8	5.9	67.7	11	5.30	20.90	3.38	0.62
ACALA 1517-88	1.14	83.6	29.1	5.2	67.2	11	4.65	20.99	3.58	0.57
ACALA 1517-91	1.33	86.0	39.3	6.5	58.6	7.0	3.45	21.26	3.61	0.86
PAYMASTER HS 26	1.01	82.6	24.3	5.4	67.3	11	4.90	21.10	3.48	0.93
AGC 2008	1.10	83.3	28.4	5.4	66.1	10	4.95	20.57	3.60	0.69

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
HS46
STV KC311
CB 1233
S-1001
DELTAPINE 90	426	30.3	1.77	83	52.07	4.72	2.8
HY 39
DPL 5690
GC 9033
CHEMBRED 407

ALL-TEX MAX-9	.	.	.	.	.	.	.	.
OA6	.	.	.	.	.	.	.	.
STV LA 887	.	.	.	.	.	.	.	.
STONEVILLE 1324	.	.	.	.	.	.	.	.
SUREGROW 501	.	.	.	.	.	.	.	.
PHY B638	.	.	.	.	.	.	.	.
DELTAPINE 50	394	26.8	1.69	86	53.85	5.27	3.1	
ACALA 1517-88	426	20.3	1.55	91	45.84	4.16	3.0	
ACALA 1517-91	.	.	.	.	.	.	.
PAYMASTER HS 26	409	28.0	1.72	85	52.89	5.00	3.0	
AGC 2008	.	.	.	.	.	.	.





1993 ARIZONA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

MARICOPA, AZ

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DELTAPINE 5415	1939	A	5.10	40.7	8.3	126	1.13	0.55	197	6.4	5.35
HS 44	1857	B A	5.67	39.1	10.0	132	1.15	0.56	211	6.5	5.35
STV LA 887	1756	B C	6.49	41.4	11.6	133	1.14	0.56	213	7.0	5.00
AGC 1185	1748	B C D	5.44	40.2	10.4	130	1.13	0.55	216	6.3	5.20
DPL 5690	1741	B C D	5.27	39.6	10.2	123	1.11	0.53	217	5.8	5.10
DELTAPINE 50	1710	C D	5.86	36.9	11.1	110	1.12	0.54	185	7.5	5.40
CBX 1233	1702	E C D	5.35	39.8	9.9	128	1.12	0.55	208	6.4	5.15
AGC 2006	1698	E C D	5.97	38.7	10.6	121	1.15	0.55	202	6.6	5.10
GC 9033	1694	E C D	5.58	38.8	10.3	132	1.11	0.52	214	5.8	5.00
STV KC311	1688	FE C D	5.45	39.1	10.0	129	1.16	0.55	207	6.0	5.10
OA6	1674	FE C D	5.52	39.0	10.3	123	1.14	0.54	201	6.0	5.00
S-1001	1655	FEGC D	5.46	39.5	10.6	121	1.15	0.56	210	6.3	4.90
DPL 5461	1633	FEGCHD	5.98	37.3	11.6	126	1.17	0.56	208	6.4	4.75
DELTAPINE 90	1620	FEG HD	5.48	39.2	10.3	129	1.11	0.54	213	6.3	5.20
CHEMBRED CB 1135	1577	FEG H	5.90	38.4	11.1	123	1.14	0.56	202	6.5	4.95
ALL-TEX MAX-9	1562	F G H	5.19	38.8	9.9	126	1.13	0.56	210	6.5	5.05
HS46	1542	G H	5.67	38.7	10.0	125	1.16	0.56	212	6.6	4.70
HY 39	1519	H	5.33	37.7	10.5	121	1.15	0.56	203	5.8	5.05
PAYMASTER HS 26	1360	I	5.78	36.1	11.9	130	1.08	0.54	215	7.5	5.05
ACALA 1517-88	1206	J	5.75	36.8	11.8	150	1.19	0.59	245	5.3	4.70

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
DELTAPINE 5415	1.13	83.3	24.8	4.8	69.9	12	5.50	20.53	3.57	1.01
HS 44	1.17	82.7	28.3	4.7	70.3	12	5.60	21.78	3.24	1.11
STV LA 887	1.15	84.0	26.9	5.5	68.5	11	5.35	21.41	3.69	1.00
AGC 1185	1.13	83.1	26.8	4.3	69.9	12	5.30	21.49	3.65	0.95
DPL 5690	1.13	82.8	28.2	4.8	69.2	12	5.15	21.43	3.73	1.08
DELTAPINE 50	1.13	83.8	22.9	5.6	70.6	12	5.50	21.50	3.65	1.08
CBX 1233	1.14	84.1	26.9	5.1	70.0	12	5.15	21.69	3.50	1.16
AGC 2006	1.17	83.4	25.9	5.2	70.2	12	5.35	19.81	3.45	0.98
GC 9033	1.13	82.8	28.8	4.6	69.4	12	5.15	21.80	3.71	1.12
STV KC311	1.14	83.4	27.6	4.8	70.0	12	5.15	22.89	2.08	1.09
OA6	1.13	82.2	28.0	4.5	70.1	12	5.05	22.20	3.62	1.13
S-1001	1.14	83.0	27.0	5.0	69.7	12	5.15	22.17	3.56	1.01
DPL 5461	1.16	83.3	25.3	5.0	70.8	12	5.10	20.63	3.52	1.22
DELTAPINE 90	1.15	84.2	27.5	4.9	69.8	12	5.25	21.87	3.71	1.02
CHEMBRED CB 1135	1.15	84.2	26.2	4.7	68.9	11	5.20	21.41	3.65	1.07
ALL-TEX MAX-9	1.13	83.4	27.2	4.9	69.8	12	5.15	21.54	3.77	0.91
HS46	1.15	83.6	27.9	5.2	69.3	11	4.90	21.57	3.52	1.18
HY 39	1.16	83.9	27.6	4.6	69.5	12	5.15	21.40	3.62	1.01
PAYMASTER HS 26	1.08	84.1	26.2	4.9	68.6	11	5.15	21.86	3.68	0.95
ACALA 1517-88	1.16	84.7	29.5	4.5	68.5	11	4.90	21.63	3.85	0.72

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DELTAPINE 5415
HS 44
STV LA 887
AGC 1185
DPL 5690
DELTAPINE 50	382	19.3	1.53	92	50.43	5.11	3.3
CBX 1233
AGC 2006
GC 9033

STV KC311	.	.	.	.	.	.	.	.
OA6	.	.	.	.	.	.	.	.
S-1001	.	.	.	.	.	.	.	.
DPL 5461	.	.	.	.	.	.	.	.
DELTAPINE 90	389	21.3	1.58	90	50.77	5.04	3.2	
CHEMBRED CB 1135	.	.	.	.	.	.	.	.
ALL-TEX MAX-9	.	.	.	.	.	.	.	.
HS46	.	.	.	.	.	.	.	.
HY 39	.	.	.	.	.	.	.	.
PAYMASTER HS 26	395	25.5	1.67	87	53.00	5.19	3.1	
ACALA 1517-88	404	13.8	1.40	97	43.52	4.16	3.2	





San Joaquin Region Test Results

Cooperators

Dick Bassett, Chairman







1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
ACALA MAXXA	1416	A	6.29	42.9	10.7	142	1.15	0.54	238	6.6	4.10
GC 9001	1397	B A	6.71	40.4	10.7	151	1.13	0.55	259	6.4	4.33
PHYTOGEN 25	1380	B A C	6.38	42.3	10.5	151	1.16	0.56	265	7.1	4.23
CBX 392	1369	B A C	6.77	40.7	10.5	147	1.15	0.56	249	6.3	4.30
CG-9102	1362	B A C	6.70	40.0	11.5	153	1.14	0.57	254	6.8	4.25
PHYTOGEN 27	1356	B A C	6.82	39.9	11.2	151	1.14	0.57	244	7.1	4.50
CPCSD C-111	1333	B A C	5.79	42.0	10.6	152	1.15	0.57	255	5.8	4.50
GC 9021	1329	B A C	6.61	39.8	10.7	151	1.12	0.55	267	6.4	4.30
DELTAPINE 50	1324	B A C	5.99	37.1	10.4	123	1.09	0.52	206	8.4	4.43
ACALA 1517-88	1324	B A C	5.58	41.0	10.4	142	1.15	0.54	241	6.0	4.38
ACALA ROYALE	1323	B A C	5.87	42.5	11.4	144	1.13	0.55	252	7.0	4.43
PHYTOGEN 31	1308	DB A C	7.61	40.0	12.6	152	1.16	0.57	273	6.5	4.15
GC-9011	1306	DB A C	6.84	39.4	11.6	162	1.14	0.56	270	6.3	4.15
ACALA GC 510	1304	DB A C	6.41	40.5	10.6	148	1.12	0.55	243	6.5	4.48
DELTAPINE 90	1272	DB A C	5.57	40.5	9.0	125	1.09	0.51	224	7.2	4.58
PAYMASTER HS 26	1263	DB A C	6.08	38.5	10.5	125	1.05	0.52	223	8.0	4.80
CPCSD C-224	1249	DB A C	6.69	42.3	10.1	156	1.18	0.57	259	6.9	4.25
PHYTOGEN 17	1239	DB C	6.92	38.7	11.4	153	1.13	0.55	242	6.5	4.23
CPCSD C-225	1213	D C	5.90	40.3	12.1	153	1.16	0.57	252	6.5	4.15
DPL 900	1153	D	5.95	38.4	11.2	149	1.14	0.55	252	6.5	4.35

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
ACALA MAXXA	1.14	83.0	31.2	5.2	69.2	12	4.18	20.60	4.00	0.71
GC 9001	1.14	83.7	31.6	5.9	69.0	11	4.30	19.92	3.84	0.58
PHYTOGEN 25	1.15	83.7	32.6	6.1	69.6	12	4.33	19.99	4.02	0.60
CBX 392	1.15	83.2	31.3	5.5	69.2	11	4.40	21.14	4.07	0.62
CG-9102	1.14	83.9	31.5	5.7	68.8	11	4.33	20.68	3.93	0.59
PHYTOGEN 27	1.12	84.3	31.2	6.1	69.3	11	4.55	20.47	3.78	0.61
CPCSD C-111	1.16	84.4	32.4	5.2	68.9	11	4.45	21.49	4.29	0.86
GC 9021	1.11	82.8	31.5	5.3	69.1	11	4.48	21.47	3.84	0.56
DELTAPINE 50	1.09	82.6	26.6	6.1	69.8	12	4.48	20.12	3.57	0.87
ACALA 1517-88	1.13	82.1	30.5	5.1	68.9	11	4.38	20.83	3.80	0.68
ACALA ROYALE	1.14	83.8	30.8	5.9	69.0	11	4.40	19.73	4.07	0.58
PHYTOGEN 31	1.16	84.0	33.3	5.6	68.9	11	4.18	21.47	3.79	0.54
GC-9011	1.15	83.9	32.9	5.7	68.8	11	4.28	21.60	3.79	0.50
ACALA GC 510	1.12	82.4	30.4	5.3	69.3	12	4.53	21.94	3.96	0.52
DELTAPINE 90	1.08	81.8	28.2	5.3	68.2	11	4.80	20.77	3.73	0.86
PAYMASTER HS 26	1.06	83.0	26.6	5.6	69.3	12	4.83	20.98	3.67	0.85
CPCSD C-224	1.18	85.1	32.1	6.1	68.4	11	4.35	20.55	4.17	0.55
PHYTOGEN 17	1.14	82.6	30.3	5.6	68.3	11	4.48	20.43	3.83	0.60
CPCSD C-225	1.16	83.6	32.3	5.7	68.6	11	4.18	20.63	3.98	0.52
DPL 900	1.13	82.4	33.0	5.5	68.3	11	4.20	20.64	3.95	0.59

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
ACALA MAXXA
GC 9001
PHYTOGEN 25
CBX 392
CG-9102
PHYTOGEN 27
CPCSD C-111
GC 9021
DELTAPINE 50	453	41.1	1.97	75	54.36	4.63	2.61

ACALA 1517-88	451	29.4	1.75	83	48.72	4.18	2.69
ACALA ROYALE	.	.	.	.	.	.	.
PHYTOGEN 31	.	.	.	.	.	.	.
GC-9011	.	.	.	.	.	.	.
ACALA GC 510	.	.	.	.	.	.	.
DELTAPINE 90	430	30.6	1.77	83	51.63	4.64	2.81
PAYMASTER HS 26	418	29.0	1.74	84	52.35	4.85	2.91
CPCSD C-224	.	.	.	.	.	.	.
PHYTOGEN 17	.	.	.	.	.	.	.
CPCSD C-225	.	.	.	.	.	.	.
DPL 900	.	.	.	.	.	.	.





1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT			SEED INDEX			LINT	
PHYTOGEN 31	7.61	A	ACALA MAXXA	42.9			
A PHYTOGEN 31		12.6	A				
PHYTOGEN 17	6.92	B A	ACALA ROYALE	42.5		B	
A CPCSD C-225		12.1	B A				
GC-9011	6.84	B A C	CPCSD C-224	42.3		B A	
C GC-9011		11.6	B A C				
PHYTOGEN 27	6.82	B A C	PHYTOGEN 25	42.3		B A	
C CG-9102		11.5	B A C				
CBX 392	6.77	B A C	CPCSD C-111	42.0		DB A	
C ACALA ROYALE		11.4	B A C				
GC 9001	6.71	B A C	ACALA 1517-88	41.0		DBEA	
C PHYTOGEN 17		11.4	B A C				
CG-9102	6.70	B A C	CBX 392	40.7		DBEA	
C PHYTOGEN 27		11.2	B A C				
CPCSD C-224	6.69	B A C	DELTAPINE 90	40.5		DBEA	
C DPL 900		11.2	B A C				
GC 9021	6.61	DB A C	ACALA GC 510	40.5		DBEA	
C GC 9001		10.7	B C				
ACALA GC 510	6.41	DB C	GC 9001	40.4		DBEA	
C GC 9021		10.7	B C				
PHYTOGEN 25	6.38	DB C	CPCSD C-225	40.3		DBEA	
C ACALA MAXXA		10.7	B C				
ACALA MAXXA	6.29	DB C	PHYTOGEN 31	40.0		DBE	
C ACALA GC 510		10.6	B D C				
PAYMASTER HS 26	6.08	DB C	CG-9102	40.0		DBE	
C CPCSD C-111		10.6	B D C				

1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

DELTAPINE 50	5.99	DB	C	PHYTOGEN 27	39.9	DBE
C PAYMASTER HS 26	10.5		B D C			
DPL 900	5.95	DB	C	GC 9021	39.8	D E
C CBX 392	10.5		B D C			
CPCSD C-225	5.90	DB	C	GC-9011	39.4	D
EF PHYTOGEN 25	10.5		D C			
ACALA ROYALE	5.87	DB	C	PHYTOGEN 17	38.7	
EF DELTAPINE 50	10.4		D C			
CPCSD C-111	5.79	D	C	PAYMASTER HS 26	38.5	
EF ACALA 1517-88	10.4		D C			
ACALA 1517-88	5.58	D		DPL 900	38.4	
EF CPCSD C-224	10.1		D C			
DELTAPINE 90	5.57	D		DELTAPINE 50	37.1	
F DELTAPINE 90	9.0		D			

YARN TENACITY

FIBROGRAPH--2.5% S.

L. FIBROGRAPH--50% S. L.

GC-9011	162	A		CPCSD C-224	1.18	
A CPCSD C-224	0.57		A			
CPCSD C-224	156	B A		CPCSD C-225	1.16	B
A CPCSD C-111	0.57		B A			
CG-9102	153	B A		PHYTOGEN 25	1.16	B
A CPCSD C-225	0.57		B A			
PHYTOGEN 17	153	B A		PHYTOGEN 31	1.16	B
A CG-9102	0.57		B A			
CPCSD C-225	153	B A		ACALA 1517-88	1.15	B
A PHYTOGEN 27	0.57		B A			
PHYTOGEN 31	152	B A		ACALA MAXXA	1.15	B
A PHYTOGEN 31	0.57		B A			
CPCSD C-111	152	B A		CPCSD C-111	1.15	B
A CBX 392	0.56		B A C			
PHYTOGEN 25	151	B A		CBX 392	1.15	B
A GC-9011	0.56		B A C			
PHYTOGEN 27	151	B A		DPL 900	1.14	B
A PHYTOGEN 25	0.56		B A C			
GC 9021	151	B A		CG-9102	1.14	B
A ACALA GC 510	0.55		B A C			
GC 9001	151	B A		PHYTOGEN 27	1.14	B
A ACALA ROYALE	0.55		B A C			

1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

DPL 900	149	B A	GC-9011	1.14	
B	DPL 900	0.55	B A C		
ACALA GC 510	148	B A	ACALA ROYALE	1.13	
B	GC 9021	0.55	B A C		
CBX 392	147	B A	GC 9001	1.13	B
C	GC 9001	0.55	B C		
ACALA ROYALE	144	B	PHYTOGEN 17	1.13	B
C	PHYTOGEN 17	0.55	B C		
ACALA 1517-88	142	B	ACALA GC 510	1.12	B
C	ACALA 1517-88	0.54	D C		
ACALA MAXXA	142	B	GC 9021	1.12	B
C	ACALA MAXXA	0.54	D C		
PAYMASTER HS 26	125	C	DELTAPINE 90	1.09	
C	PAYMASTER HS 26	0.52	D		
DELTAPINE 90	125	C	DELTAPINE 50	1.09	
C	DELTAPINE 50	0.52	D		
DELTAPINE 50	123	C	PAYMASTER HS 26	1.05	
D	DELTAPINE 90	0.51	D		

 STELOMETER - T1

 STELOMETER -

E1		MICRONAIRE			
PHYTOGEN 31	273	A	DELTAPINE 50	8.4	
A	PAYMASTER HS 26	4.80	A		
GC-9011	270	B A	PAYMASTER HS 26	8.0	
A	DELTAPINE 90	4.58	B A		
GC 9021	267	B A C	DELTAPINE 90	7.2	
B	CPCSD C-111	4.50	B A C		
PHYTOGEN 25	265	B A C	PHYTOGEN 25	7.1	C
B	PHYTOGEN 27	4.50	B A C		
GC 9001	259	B A C	PHYTOGEN 27	7.1	C
B	ACALA GC 510	4.48	B A C		
CPCSD C-224	259	B A C	ACALA ROYALE	7.0	C
B	DELTAPINE 50	4.43	B A C		
CPCSD C-111	255	DB A C	CPCSD C-224	6.9	C
B	ACALA ROYALE	4.43	B A C		
CG-9102	254	DB A C	CG-9102	6.8	C B
D	ACALA 1517-88	4.38	B C		
ACALA ROYALE	252	DBEA C	ACALA MAXXA	6.6	EC B
D	DPL 900	4.35	B C		

1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

DPL 900	252	DBEA C		ACALA GC 510	6.5	EC B
D GC 9001		4.33	B	C		
CPCSD C-225	252	DBEA C		DPL 900	6.5	EC B
D CBX 392		4.30	B	C		
CBX 392	249	DBEA C		PHYTOGEN 17	6.5	EC B
D GC 9021		4.30	B	C		
PHYTOGEN 27	244	DBEA C		CPCSD C-225	6.5	EC B
D CPCSD C-224		4.25	B	C		
ACALA GC 510	243	DBEA C		PHYTOGEN 31	6.5	EC B
D CG-9102		4.25	B	C		
PHYTOGEN 17	242	DBEA C		GC 9001	6.4	EC B
D PHYTOGEN 17		4.23	B	C		
ACALA 1517-88	241	DBE C		GC 9021	6.4	EC B
D PHYTOGEN 25		4.23	B	C		
ACALA MAXXA	238	D E C		GC-9011	6.3	EC
D CPCSD C-225		4.15	B	C		
DELTAPINE 90	224	D EF		CBX 392	6.3	EC
D GC-9011		4.15	B	C		
PAYMASTER HS 26	223	EF		ACALA 1517-88	6.0	E
D PHYTOGEN 31		4.15	B	C		
DELTAPINE 50	206	F		CPCSD C-111	5.8	
E ACALA MAXXA		4.10		C		

 2.5% S.L. (INCHES)
 (PERCENT)

 UR
 STRENGTH (G/TEX)

CPCSD C-224	1.18	A		CPCSD C-224	85.1	
A PHYTOGEN 31		33.3		A		
PHYTOGEN 31	1.16	B A		CPCSD C-111	84.4	B
A DPL 900		33.0	B A			
CPCSD C-225	1.16	B A C		PHYTOGEN 27	84.3	B
A GC-9011		32.9	B A			
CPCSD C-111	1.16	DB A C		PHYTOGEN 31	84.0	B A
C PHYTOGEN 25		32.6	B A C			
CBX 392	1.15	DB A C		CG-9102	83.9	B A
C CPCSD C-111		32.4	DB A C			
GC-9011	1.15	DB A C		GC-9011	83.9	B A
C CPCSD C-225		32.3	DB A C			
PHYTOGEN 25	1.15	DB A C		ACALA ROYALE	83.8	DB A
C CPCSD C-224		32.1	DB A C			

1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

ACALA ROYALE	1.14	DB A C	GC 9001	83.7	DBEA
C GC 9001		31.6	DB A C		
ACALA MAXXA	1.14	DB A C	PHYTOGEN 25	83.7	DBE
C GC 9021		31.5	DB A C		
GC 9001	1.14	DB A C	CPCSD C-225	83.6	DBE
C CG-9102		31.5	DB A C		
PHYTOGEN 17	1.14	DB A C	CBX 392	83.2	DBEF
C CBX 392		31.3	DB A C		
CG-9102	1.14	DB A C	ACALA MAXXA	83.0	
DBEFGC ACALA MAXXA		31.2	DB A C		
ACALA 1517-88	1.13	DB E C	PAYMASTER HS 26	83.0	
DBEFGC PHYTOGEN 27		31.2	DB A C		
DPL 900	1.13	DB E C	GC 9021	82.8	D
EFGC ACALA ROYALE		30.8	DB C		
PHYTOGEN 27	1.12	DBFE C	DELTAPINE 50	82.6	D
EFGC ACALA 1517-88		30.5	D C		
ACALA GC 510	1.12	D FE C	PHYTOGEN 17	82.6	D
EFGC ACALA GC 510		30.4	D C		
GC 9021	1.11	D FE	ACALA GC 510	82.4	D
EFG PHYTOGEN 17		30.3	D		
DELTAPINE 50	1.09	GFE	DPL 900	82.4	
EFG DELTAPINE 90		28.2	E		
DELTAPINE 90	1.08	GF	ACALA 1517-88	82.1	
FG PAYMASTER HS 26		26.6	E		
PAYMASTER HS 26	1.06	G	DELTAPINE 90	81.8	
G DELTAPINE 50		26.6	E		

E		COLORIMETER -			
Rd		COLORIMETER - b			
PHYTOGEN 27	6.1	A	DELTAPINE 50	69.8	
A PHYTOGEN 25		12	A		
DELTAPINE 50	6.1	B A	PHYTOGEN 25	69.6	B
A PAYMASTER HS 26		12	B A		
CPCSD C-224	6.1	B A	ACALA GC 510	69.3	B
A DELTAPINE 50		12	B A		
PHYTOGEN 25	6.1	B A C	PAYMASTER HS 26	69.3	B
A ACALA GC 510		12	B A		
GC 9001	5.9	DB A C	PHYTOGEN 27	69.3	B
A ACALA MAXXA		12	B A		

1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

ACALA ROYALE	5.9	DBEA C	ACALA MAXXA	69.2	B
A ACALA 1517-88		11	B A		
CPCSD C-225	5.7	DBEAFC	CBX 392	69.2	B
A PHYTOGEN 27		11	B A		
CG-9102	5.7	DBEAFC	GC 9021	69.1	B
A ACALA ROYALE		11	B A		
GC-9011	5.7	DBE FC	GC 9001	69.0	B
A CPCSD C-111		11	B A		
PAYMASTER HS 26	5.6	D EGFC	ACALA ROYALE	69.0	B
A DPL 900		11	B A		
PHYTOGEN 31	5.6	D EGFC	ACALA 1517-88	68.9	B
A GC 9001		11	B A		
PHYTOGEN 17	5.6	DHEGF	CPCSD C-111	68.9	B
A CBX 392		11	B A		
DPL 900	5.5	HEGFI	PHYTOGEN 31	68.9	B
A CPCSD C-225		11	B A		
CBX 392	5.5	HEGFI	CG-9102	68.8	B
A GC-9011		11	B A		
ACALA GC 510	5.3	H GFI	GC-9011	68.8	B
A CG-9102		11	B A		
GC 9021	5.3	H GFI	CPCSD C-225	68.6	B
A PHYTOGEN 31		11	B A		
DELTAPINE 90	5.3	H GFI	CPCSD C-224	68.4	B
A GC 9021		11	B A		
CPCSD C-111	5.2	H G I	PHYTOGEN 17	68.3	B
A DELTAPINE 90		11	B		
ACALA MAXXA	5.2	H I	DPL 900	68.3	B
A PHYTOGEN 17		11	B		
ACALA 1517-88	5.1	I	DELTAPINE 90	68.2	
B CPCSD C-224		11	B		

MICRONAIRE (SL-HVI)

(PERCENT)

OIL

NITROGEN (PERCENT)

PAYMASTER HS 26	4.83	A	ACALA GC 510	21.94	
A CPCSD C-111		4.29	A		
DELTAPINE 90	4.80	B A	GC-9011	21.60	B
A CPCSD C-224		4.17	B A		
PHYTOGEN 27	4.55	B A C	CPCSD C-111	21.49	B A

1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

C	ACALA ROYALE	4.07	B A C			
ACALA GC 510	4.53	B A C		PHYTOGEN 31	21.47	B A
C	CBX 392	4.07	B A C			
DELTAPINE 50	4.48	B A C		GC 9021	21.47	B A
C	PHYTOGEN 25	4.02	B D C			
PHYTOGEN 17	4.48	B A C		CBX 392	21.14	DB A
C	ACALA MAXXA	4.00	B D C			
GC 9021	4.48	B A C		PAYMASTER HS 26	20.98	DBEA
C	CPCSD C-225	3.98	EB D C			
CPCSD C-111	4.45	B C		ACALA 1517-88	20.83	DBEA
C	ACALA GC 510	3.96	EB D C			
ACALA ROYALE	4.40	C		DELTAPINE 90	20.77	DBEA
C	DPL 900	3.95	EB D C			
CBX 392	4.40	C		CG-9102	20.68	DBEA
C	CG-9102	3.93	EB D C			
ACALA 1517-88	4.38	C		DPL 900	20.64	DBEA
C	GC 9001	3.84	EF D C			
CPCSD C-224	4.35	C		CPCSD C-225	20.63	DBEA
C	GC 9021	3.84	EF D C			
CG-9102	4.33	C		ACALA MAXXA	20.60	DBEA
C	PHYTOGEN 17	3.83	EF D C			
PHYTOGEN 25	4.33	C		CPCSD C-224	20.55	DBEA
C	ACALA 1517-88	3.80	EF D G			
GC 9001	4.30	C		PHYTOGEN 27	20.47	DBE
C	GC-9011	3.79	EF D G			
GC-9011	4.28	C		PHYTOGEN 17	20.43	DBE
C	PHYTOGEN 31	3.79	EF D G			
DPL 900	4.20	C		DELTAPINE 50	20.12	D E
C	PHYTOGEN 27	3.78	EF D G			
ACALA MAXXA	4.18	C		PHYTOGEN 25	19.99	D
E	DELTAPINE 90	3.73	EF G			
CPCSD C-225	4.18	C		GC 9001	19.92	D
E	PAYMASTER HS 26	3.67	F G			
PHYTOGEN 31	4.18	C		ACALA ROYALE	19.73	
E	DELTAPINE 50	3.57	G			

 FREE GOSSYPOL (PERCENT)

DELTAPINE 50	0.87	A
DELTAPINE 90	0.86	A
CPCSD C-111	0.86	A

PAYMASTER HS 26	0.85	A
ACALA MAXXA	0.71	B A
ACALA 1517-88	0.68	B C
CBX 392	0.62	B C
PHYTOGEN 27	0.61	B C
PHYTOGEN 17	0.60	B C
PHYTOGEN 25	0.60	B C
DPL 900	0.59	B C
CG-9102	0.59	B C
ACALA ROYALE	0.58	B C
GC 9001	0.58	B C
GC 9021	0.56	B C
CPCSD C-224	0.55	B C
PHYTOGEN 31	0.54	B C
ACALA GC 510	0.52	C
CPCSD C-225	0.52	C
GC-9011	0.50	C

 AREALOMETER - A (mm2/mm3)
 mm3) AREALOMETER - I

 AREALOMETER - D (mm2/

DELTAPINE 50	453	A
A DELTAPINE 50		2.0
ACALA 1517-88	451	A
A DELTAPINE 90		1.8
DELTAPINE 90	430	A
A ACALA 1517-88		1.8
PAYMASTER HS 26	418	A
A PAYMASTER HS 26		1.7

DELTAPINE 50	41.1
A	
DELTAPINE 90	30.6
A	
ACALA 1517-88	29.4
A	
PAYMASTER HS 26	29.0
A	

 AREALOMETER - M (PERCENT)
 (Microns) AREALOMETER -w

 AREALOMETER - p
 (MG/INCH)

PAYMASTER HS 26	84	A	DELTAPINE 50	54.36	
A	PAYMASTER HS 26	4.85	A		
ACALA 1517-88	83	A	PAYMASTER HS 26	52.35	B
A	DELTAPINE 90	4.64	B A		
DELTAPINE 90	83	A	DELTAPINE 90	51.63	B
A	DELTAPINE 50	4.63	B A		
DELTAPINE 50	75	A	ACALA 1517-88	48.72	
B	ACALA 1517-88	4.18	B		

 AREALOMETER - t (MICRONS)

PAYMASTER HS 26	2.91	A
DELTAPINE 90	2.81	A
ACALA 1517-88	2.69	A
DELTAPINE 50	2.61	A





1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
W SIDE FIELD STATION, CA	1600	A 6.69	40.0	11.5	151	1.16	0.56	245	6.6	4.36
SHAFTER, CA	1022	B 6.06	40.7	10.2	142	1.11	0.54	252	6.9	4.33

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd Hunter's b				
W SIDE FIELD STATION, CA	1.16	84.0	31.1	5.7	69.1	11	21.51	3.81	0.75
SHAFTER, CA	1.10	82.6	30.9	5.6	68.8	11	20.03	3.99	0.53

Arealometer Data

LOCATION	A	D	I	M	p	w	t
	(mm ² /mm ³)	(mm ² /mm ³)		(%)	(microns)	(mg/inch)	(microns)

W SIDE FIELD STATION, CA	441	34.7	1.84	80	52.49	4.61	2.7
SHAFTER, CA	435	30.4	1.77	83	51.04	4.53	2.8





1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

SHAFTER, CA

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
CBX 392	1124	A	5.96	40.4	9.5	145	1.13	0.54	247	6.4	4.30
CPCSD C-111	1121	A	5.10	41.0	10.0	148	1.13	0.57	254	6.3	4.50
ACALA MAXXA	1104	A	5.40	43.5	10.0	132	1.13	0.53	235	7.3	4.00
PHYTOGEN 31	1102	A	7.33	41.5	11.6	148	1.13	0.55	283	6.9	4.15
CG-9102	1078	B A	6.66	40.7	11.1	151	1.13	0.56	258	7.3	4.05
GC 9001	1072	B A	6.58	40.8	10.7	149	1.12	0.54	260	6.6	4.15
GC 9021	1063	B A	6.47	41.2	10.8	139	1.10	0.54	279	6.3	4.40
PHYTOGEN 25	1056	B A	6.17	43.0	10.0	146	1.15	0.55	283	7.1	4.15
CPCSD C-224	1033	B A	6.44	41.3	10.1	155	1.17	0.56	259	7.0	4.15
PHYTOGEN 27	1029	B A	6.38	40.6	10.3	153	1.11	0.54	254	7.1	4.55
GC-9011	1019	B A	6.66	40.2	10.5	161	1.13	0.55	279	6.5	4.05
ACALA GC 510	1018	B A	6.06	41.9	9.6	141	1.09	0.52	238	6.5	4.45
ACALA 1517-88	1006	B A	5.31	41.6	9.2	139	1.11	0.52	244	6.1	4.35
PHYTOGEN 17	982	B A	6.82	39.2	11.2	148	1.11	0.53	251	6.3	4.15
DELTAPINE 90	963	B A	4.61	39.7	8.4	118	1.06	0.50	216	7.0	4.90
ACALA ROYALE	952	B A	5.74	42.8	9.6	130	1.10	0.53	248	7.5	4.60
DELTAPINE 50	949	B A	5.45	36.6	9.8	131	1.05	0.51	230	8.5	4.55
CPCSD C-225	943	B A	5.82	41.0	11.8	151	1.13	0.55	256	6.6	4.10
PAYMASTER HS 26	934	B A	5.92	38.2	9.5	122	1.03	0.51	230	7.9	4.70
DPL 900	894	B	6.26	39.0	10.8	141	1.12	0.53	238	6.8	4.25

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
CBX 392	1.12	82.4	31.5	5.6	69.0	11	4.25	20.25	4.23	0.48
CPCSD C-111	1.14	84.1	32.6	5.3	68.7	11	4.40	21.37	4.40	0.81
ACALA MAXXA	1.11	82.2	30.6	5.3	68.7	11	4.05	19.72	3.88	0.60
PHYTOGEN 31	1.14	83.1	33.0	5.7	69.0	11	4.20	20.07	3.83	0.41
CG-9102	1.12	83.2	31.5	5.8	68.7	11	4.15	19.46	4.06	0.47
GC 9001	1.13	83.6	32.1	6.1	69.1	11	4.05	19.38	3.85	0.46
GC 9021	1.08	82.3	31.0	5.1	69.1	11	4.60	20.55	4.04	0.41
PHYTOGEN 25	1.12	82.7	33.0	6.0	69.5	12	4.35	19.59	4.09	0.56
CPCSD C-224	1.17	84.6	32.2	6.1	68.8	11	4.15	20.25	4.22	0.49
PHYTOGEN 27	1.11	84.2	31.0	6.0	69.5	12	4.55	19.64	3.98	0.52
GC-9011	1.12	83.4	32.2	5.8	68.5	11	4.15	20.01	3.85	0.34
ACALA GC 510	1.11	82.0	29.9	5.4	68.9	11	4.55	21.34	4.07	0.45
ACALA 1517-88	1.08	80.9	29.3	5.0	69.0	12	4.35	19.86	3.77	0.52
PHYTOGEN 17	1.12	81.5	30.3	5.6	68.8	11	4.35	19.23	3.98	0.52
DELTAPINE 90	1.03	80.8	27.8	5.1	67.2	11	5.00	20.16	3.89	0.70
ACALA ROYALE	1.09	82.5	30.2	5.7	68.5	11	4.40	19.51	4.20	0.55
DELTAPINE 50	1.05	83.0	28.5	5.8	68.8	11	4.50	19.35	3.68	0.64
CPCSD C-225	1.15	83.3	32.3	5.8	68.9	11	4.05	20.20	4.06	0.45
PAYMASTER HS 26	1.03	82.2	26.9	5.7	68.5	11	4.75	20.49	3.78	0.67
DPL 900	1.09	81.4	32.2	5.5	68.5	11	4.15	20.31	4.03	0.51

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I (%)	M (%)	p (microns)	w (mg/inch)	t (microns)
CBX 392
CPCSD C-111
ACALA MAXXA
PHYTOGEN 31
CG-9102
GC 9001
GC 9021
PHYTOGEN 25
CPCSD C-224

PHYTOGEN 27	.	.	.	.	.	.	.	.
GC-9011	.	.	.	.	.	.	.	.
ACALA GC 510	.	.	.	.	.	.	.	.
ACALA 1517-88	454	30.5	1.77	83	48.98	4.17	2.7	
PHYTOGEN 17	.	.	.	.	.	.	.	.
DELTAPINE 90	419	26.5	1.69	86	50.72	4.68	2.9	
ACALA ROYALE	.	.	.	.	.	.	.	.
DELTAPINE 50	437	33.3	1.83	81	52.48	4.64	2.7	
CPCSD C-225	.	.	.	.	.	.	.	.
PAYMASTER HS 26	432	31.3	1.79	82	52.00	4.66	2.8	
DPL 900	.	.	.	.	.	.	.	.





1993 SAN JOAQUIN REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

W SIDE FIELD STATION, CA

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
ACALA MAXXA	1727	A	7.19	42.4	11.3	151	1.16	0.54	242	5.9	4.20
GC 9001	1723	A	6.84	40.1	10.7	153	1.13	0.55	259	6.3	4.50
PHYTOGEN 25	1704	B A	6.60	41.7	10.9	157	1.16	0.57	247	7.0	4.30
DELTAPINE 50	1699	B A	6.54	37.7	11.0	115	1.14	0.53	182	8.3	4.30
ACALA ROYALE	1693	B A	6.01	42.3	13.2	159	1.17	0.58	256	6.5	4.25
PHYTOGEN 27	1682	B A	7.26	39.2	12.1	150	1.17	0.59	234	7.0	4.45
CG-9102	1647	B A C	6.74	39.2	11.9	156	1.15	0.57	251	6.4	4.45
ACALA 1517-88	1642	DB A C	5.86	40.4	11.5	146	1.18	0.55	239	5.9	4.40
CBX 392	1614	DBEA C	7.58	41.0	11.5	149	1.17	0.58	251	6.1	4.30
GC 9021	1595	DBEA C	6.75	38.4	10.6	163	1.15	0.57	254	6.5	4.20
GC-9011	1594	DBEA C	7.02	38.6	12.7	164	1.15	0.57	262	6.1	4.25
PAYMASTER HS 26	1591	DBEA C	6.24	38.8	11.5	128	1.08	0.53	217	8.1	4.90
ACALA GC 510	1589	DBEA C	6.76	39.1	11.6	156	1.15	0.58	247	6.5	4.50
DELTAPINE 90	1581	DBEA C	6.52	41.4	9.6	132	1.13	0.53	233	7.4	4.25
CPCSD C-111	1544	DBEF C	6.47	43.0	11.2	156	1.17	0.57	255	5.4	4.50
PHYTOGEN 31	1514	D EF C	7.88	38.5	13.5	157	1.19	0.60	263	6.1	4.15
PHYTOGEN 17	1496	D EF C	7.02	38.2	11.6	157	1.15	0.56	234	6.8	4.30
CPCSD C-225	1483	D EF	5.98	39.6	12.4	154	1.19	0.59	248	6.4	4.20
CPCSD C-224	1464	EF	6.93	43.3	10.0	157	1.19	0.59	258	6.8	4.35
DPL 900	1412	F	5.64	37.8	11.5	158	1.17	0.57	266	6.3	4.45

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
ACALA MAXXA	1.17	83.9	31.9	5.1	69.8	12	4.30	21.49	4.12	0.82
GC 9001	1.16	83.9	31.1	5.8	69.0	11	4.55	20.47	3.83	0.70
PHYTOGEN 25	1.18	84.7	32.3	6.2	69.8	12	4.30	20.40	3.94	0.64
DELTAPINE 50	1.14	82.3	24.6	6.4	70.8	12	4.45	20.88	3.46	1.09
ACALA ROYALE	1.19	85.2	31.3	6.2	69.5	11	4.40	19.96	3.94	0.60
PHYTOGEN 27	1.14	84.5	31.3	6.3	69.0	11	4.55	21.30	3.59	0.71
CG-9102	1.16	84.7	31.5	5.6	68.9	11	4.50	21.90	3.80	0.72
ACALA 1517-88	1.18	83.3	31.7	5.2	68.9	11	4.40	21.81	3.82	0.84
CBX 392	1.18	84.0	31.2	5.4	69.4	11	4.55	22.03	3.91	0.75
GC 9021	1.15	83.4	32.1	5.5	69.1	11	4.35	22.39	3.65	0.72
GC-9011	1.17	84.4	33.6	5.6	69.0	11	4.40	23.19	3.74	0.67
PAYMASTER HS 26	1.09	83.8	26.3	5.6	70.1	12	4.90	21.47	3.56	1.04
ACALA GC 510	1.13	82.8	30.9	5.3	69.7	12	4.50	22.53	3.86	0.60
DELTAPINE 90	1.14	82.7	28.6	5.4	69.3	11	4.60	21.38	3.58	1.02
CPCSD C-111	1.18	84.7	32.2	5.2	69.1	11	4.50	21.61	4.17	0.92
PHYTOGEN 31	1.19	84.9	33.6	5.6	68.8	11	4.15	22.88	3.75	0.66
PHYTOGEN 17	1.17	83.8	30.4	5.6	67.9	11	4.60	21.63	3.68	0.68
CPCSD C-225	1.18	83.9	32.3	5.6	68.4	11	4.30	21.05	3.90	0.60
CPCSD C-224	1.20	85.6	31.9	6.2	68.1	11	4.55	20.85	4.13	0.61
DPL 900	1.16	83.3	33.8	5.5	68.1	11	4.25	20.98	3.87	0.68

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
ACALA MAXXA	.	.	.	.	.	.	.
GC 9001	.	.	.	.	.	.	.
PHYTOGEN 25	.	.	.	.	.	.	.
DELTAPINE 50	470	49.0	2.11	70	56.25	4.63	2.5
ACALA ROYALE	.	.	.	.	.	.	.
PHYTOGEN 27	.	.	.	.	.	.	.
CG-9102	.	.	.	.	.	.	.
ACALA 1517-88	447	28.3	1.73	84	48.46	4.19	2.7
CBX 392	.	.	.	.	.	.	.

GC 9021	.	.	.	.	.	.	.	.
GC-9011	.	.	.	.	.	.	.	.
PAYMASTER HS 26	404	26.8	1.69	85	52.70	5.05	3.0	
ACALA GC 510	.	.	.	.	.	.	.	.
DELTAPINE 90	442	34.8	1.85	80	52.54	4.59	2.7	
CPCSD C-111	.	.	.	.	.	.	.	.
PHYTOGEN 31	.	.	.	.	.	.	.	.
PHYTOGEN 17	.	.	.	.	.	.	.	.
CPCSD C-225	.	.	.	.	.	.	.	.
CPCSD C-224	.	.	.	.	.	.	.	.
DPL 900	.	.	.	.	.	.	.	.



High Quality Region Test Results

Cooperators

- Bill Meredith, Chairman
- Dave Albers
- Shelby Baker
- Fred Bourland
- Daryl Bowman
- David Bransby
- David Caldwell
- Phil Hoskinson
- Lloyd May
- Wayne Smith





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
DELTAPINE 50	920	A	5.07	37.7	10.5	125	1.12	0.54	202	7.1	4.83
SG X 87-75	919	A	4.60	39.8	10.7	144	1.18	0.58	224	6.2	4.62
HB 91-SS109	917	A	4.83	38.7	9.6	138	1.15	0.56	219	5.7	4.86
STV X 76207	916	A	5.32	40.7	10.6	138	1.13	0.56	211	6.6	4.60
DPX 3818	909	A	4.78	39.6	9.8	139	1.12	0.55	221	6.1	5.00
DP 5409	907	A	4.64	40.3	9.8	123	1.13	0.54	208	7.2	4.86
CHEMBRED 407	907	A	4.85	39.2	10.0	137	1.11	0.54	221	6.1	4.88
SS 9202	901	A	4.87	38.6	10.1	138	1.13	0.56	221	6.3	4.89
AGC EX 2009	899	A	5.80	37.5	12.0	146	1.14	0.56	233	6.1	4.83
PD 3-14	899	A	4.90	38.7	10.6	149	1.14	0.57	234	6.4	4.59
HB 133	893	A	4.93	39.1	10.9	148	1.13	0.56	235	6.3	4.74
HB 92-44	893	A	4.82	38.7	9.7	132	1.13	0.55	221	6.2	5.12
DELTAPINE 90	870	A	4.95	37.9	9.9	131	1.12	0.55	213	6.8	4.86
MD 14-24	856	A	4.56	38.3	10.1	143	1.13	0.57	228	6.9	4.86
SG X 86-398	856	A	4.64	39.4	10.2	140	1.12	0.55	218	6.2	4.87
GA 89-308	851	B A	5.28	39.1	11.7	153	1.12	0.56	237	5.6	4.61
GA 89-41	832	B A	5.42	38.5	10.6	142	1.13	0.56	225	6.5	4.59
HB 147	825	B A	5.34	38.3	11.2	152	1.12	0.57	246	6.8	4.91
AGC EX 2008	767	B C	5.39	37.6	11.7	154	1.15	0.57	242	6.2	4.80
ACALA 1517-88	707	C	4.79	37.8	11.0	161	1.18	0.57	248	5.9	4.36

1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
DELTAPINE 50	1.11	83.9	27.0	7.5	71.1	8.1	4.94	19.79	3.49	0.78
SG X 87-75	1.17	84.3	30.9	7.5	68.5	8.1	4.64	20.54	3.76	0.81
HB 91-SS109	1.14	83.6	29.5	7.0	71.1	7.9	4.85	20.08	3.50	0.81
STV X 76207	1.12	83.4	29.4	7.3	70.0	8.2	4.59	18.02	3.52	0.87
DPX 3818	1.11	83.5	30.2	7.0	71.2	8.0	4.99	20.81	3.59	0.85
DP 5409	1.11	83.3	27.7	7.5	70.4	8.2	4.89	19.18	3.53	0.76
CHEMBRED 407	1.12	83.5	30.4	7.1	71.2	8.3	4.91	20.24	3.56	0.78
SS 9202	1.12	83.7	29.7	7.1	70.3	8.2	4.98	20.55	3.55	0.79
AGC EX 2009	1.15	84.3	31.2	7.1	69.9	7.9	4.79	19.61	3.57	0.66
PD 3-14	1.14	84.2	29.9	7.4	69.1	7.9	4.61	20.51	3.58	0.88
HB 133	1.12	84.4	30.9	7.4	69.5	8.4	4.83	20.39	3.52	0.83
HB 92-44	1.12	83.1	29.0	7.0	71.3	8.1	5.21	19.38	3.36	0.89
DELTAPINE 90	1.10	83.1	28.7	7.2	70.8	8.1	4.89	20.19	3.60	0.76
MD 14-24	1.13	85.0	29.5	7.8	67.8	8.1	4.76	19.22	3.52	0.86
SG X 86-398	1.11	83.9	29.5	7.6	68.3	7.9	4.83	20.91	3.68	0.77
GA 89-308	1.11	84.0	31.1	7.0	69.5	8.1	4.62	20.00	3.54	0.79
GA 89-41	1.14	83.8	29.9	7.3	69.5	8.2	4.58	20.58	3.52	0.80
HB 147	1.11	84.0	32.6	7.6	69.4	8.5	4.94	20.08	3.53	0.70
AGC EX 2008	1.14	84.1	33.0	7.3	69.7	7.9	4.76	19.52	3.61	0.66
ACALA 1517-88	1.17	83.9	32.5	7.2	70.2	8.3	4.38	20.05	3.72	0.57

Arealometer Data

VARIETY	A	D	I	M	p	w	t
	(mm ² /mm ³)	(mm ² /mm ³)		(%)	(microns)	(mg/inch)	(microns)
DELTAPINE 50	412	27.9	1.71	85	52.09	4.89	2.98
SG X 87-75	428	31.3	1.78	82	52.24	4.73	2.83
HB 91-SS109	411	22.4	1.60	89	48.82	4.61	3.06
STV X 76207	428	32.1	1.80	82	52.68	4.78	2.83
DPX 3818	400	22.9	1.61	89	50.54	4.90	3.12
DP 5409	410	29.7	1.75	83	53.67	5.06	2.95
CHEMBRED 407	410	27.9	1.71	85	52.55	4.97	2.98
SS 9202	412	27.9	1.71	85	52.13	4.90	2.97
AGC EX 2009	413	25.2	1.66	87	50.36	4.72	3.00
PD 3-14	432	28.4	1.72	85	49.82	4.46	2.86
HB 133	417	27.5	1.70	85	51.28	4.76	2.95

HB 92-44	392	20.5	1.56	91	49.80	4.92	3.22
DELTAPINE 90	410	26.5	1.68	86	51.69	4.90	3.01
MD 14-24	416	24.9	1.65	87	49.87	4.65	2.99
SG X 86-398	410	26.4	1.68	86	51.46	4.87	3.03
GA 89-308	428	27.4	1.71	85	50.10	4.53	2.86
GA 89-41	427	26.8	1.69	86	49.76	4.51	2.88
HB 147	411	27.0	1.70	85	51.84	4.89	2.99
AGC EX 2008	417	25.6	1.67	86	50.22	4.66	2.96
ACALA 1517-88	439	25.3	1.66	87	47.30	4.17	2.83





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT			SEED INDEX	LINT	
AGC EX 2009	5.80	A	STV X 76207	40.7	
A	AGC EX 2009	12.0	A		
GA 89-41	5.42	B	DP 5409	40.3	B
A	AGC EX 2008	11.7	A		
AGC EX 2008	5.39	B	SG X 87-75	39.8	B
A C	GA 89-308	11.7	A		
HB 147	5.34	C B	DPX 3818	39.6	B
D C	HB 147	11.2	B		
STV X 76207	5.32	C B	SG X 86-398	39.4	EB
D C	ACALA 1517-88	11.0	C B		
GA 89-308	5.28	C B	CHEMBRED 407	39.2	E
D C	HB 133	10.9	C B		
DELTAPINE 50	5.07	C D	HB 133	39.1	E
D C	SG X 87-75	10.7	C B D		
DELTAPINE 90	4.95	E D	GA 89-308	39.1	E
D C	STV X 76207	10.6	EC B D		
HB 133	4.93	E D	HB 92-44	38.7	EF
D C	GA 89-41	10.6	EC D		
PD 3-14	4.90	E D F	PD 3-14	38.7	EF
D C	PD 3-14	10.6	EC D		
SS 9202	4.87	GE D F	HB 91-SS109	38.7	EF
D G	DELTAPINE 50	10.5	EC F D		
CHEMBRED 407	4.85	GE D F	SS 9202	38.6	EF

1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

D G	SG X 86-398	10.2	EG F D		
HB 91-SS109	4.83	GE D F	GA 89-41	38.5	EF
D G	SS 9202	10.1	EG F		
HB 92-44	4.82	GE D F	MD 14-24	38.3	
EF G	MD 14-24	10.1	EG F		
ACALA 1517-88	4.79	GE D F	HB 147	38.3	
EF G	CHEMBRED 407	10.0	G F		
DPX 3818	4.78	GE D F	DELTAPINE 90	37.9	
F G	DELTAPINE 90	9.9	G		
DP 5409	4.64	GE F	ACALA 1517-88	37.8	
F G	DP 5409	9.8	G		
SG X 86-398	4.64	GE F	DELTAPINE 50	37.7	
F G	DPX 3818	9.8	G		
SG X 87-75	4.60	G F	AGC EX 2008		
37.6	G	HB 92-44	9.7	G	
MD 14-24	4.56	G	AGC EX 2009		
37.5	G	HB 91-SS109	9.6	G	

YARN TENACITY

FIBROGRAPH--2.5% S.

L. FIBROGRAPH--50% S. L.

ACALA 1517-88	161	A	ACALA 1517-88	1.18	
A	SG X 87-75	0.58	A		
AGC EX 2008	154	B	SG X 87-75	1.18	
A	ACALA 1517-88	0.57	B A		
GA 89-308	153	B	HB 91-SS109	1.15	
B	AGC EX 2008	0.57	B C		
HB 147	152	C B	AGC EX 2008	1.15	C
B	HB 147	0.57	B C		
PD 3-14	149	C B D	PD 3-14	1.14	C
B D	MD 14-24	0.57	B C		
HB 133	148	EC B D	AGC EX 2009	1.14	EC
B D	PD 3-14	0.57	B C		
AGC EX 2009	146	EC F D	MD 14-24	1.13	
ECFB D	HB 91-SS109	0.56	B C D		
SG X 87-75	144	EG F D	GA 89-41	1.13	
ECF D	HB 133	0.56	EB C D		

1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

MD 14-24	143	EG F D	STV X 76207	1.13	E
F D	AGC EX 2009	0.56	EBFC D		
GA 89-41	142	EG F	DP 5409	1.13	E
FG D	GA 89-308	0.56	EBFC D		
SG X 86-398	140	G F	HB 92-44	1.13	E
FG D	GA 89-41	0.56	EBFC D		
DPX 3818	139	G	HB 133	1.13	E
FG D	SS 9202	0.56	E FC D		
SS 9202	138	G	SS 9202	1.13	E
FG D	STV X 76207	0.56	E FC D		
STV X 76207	138	G	DPX 3818	1.12	E
FG D	SG X 86-398	0.55	E FG D		
HB 91-SS109	138	G	GA 89-308	1.12	E
FG	DPX 3818	0.55	E FG		
CHEMBRED 407	137	G H	HB 147	1.12	E
FG	HB 92-44	0.55	FG		
HB 92-44	132	H	DELTAPINE 90	1.12	
FG	DELTAPINE 90	0.55	G		
DELTAPINE 90	131	H	DELTAPINE 50	1.12	
FG	DELTAPINE 50	0.54	G		
DELTAPINE 50	125	I	SG X 86-398	1.12	
FG	CHEMBRED 407	0.54	G		
DP 5409	123	I	CHEMBRED 407	1.11	
G	DP 5409	0.54	G		

 STELOMETER - T1

STELOMETER -

E1 MICRONAIRE

ACALA 1517-88	248	A	DP 5409	7.2	
A	HB 92-44	5.12	A		
HB 147	246	B A	DELTAPINE 50	7.1	
A	DPX 3818	5.00	B A		
AGC EX 2008	242	B A C	MD 14-24	6.9	B
A	HB 147	4.91	B C		
GA 89-308	237	B D C	DELTAPINE 90	6.8	B
A C	SS 9202	4.89	B C		
HB 133	235	EB D C	HB 147	6.8	B

1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

A C	CHEMBRED 407	4.88	B C		
PD 3-14	234	E D C	STV X 76207	6.6	DB
A C	SG X 86-398	4.87	B C		
AGC EX 2009	233	E D C	GA 89-41	6.5	DB
E C	DELTAPINE 90	4.86	B C		
MD 14-24	228	EF D	PD 3-14	6.4	DB
E C	DP 5409	4.86	B C		
GA 89-41	225	EF	SS 9202	6.3	D
E C	HB 91-SS109	4.86	B C		
SG X 87-75	224	EF G	HB 133	6.3	D
E C	MD 14-24	4.86	B C		
DPX 3818	221	F G H	SG X 87-75	6.2	DF
E	DELTAPINE 50	4.83	B C D		
SS 9202	221	F G H	SG X 86-398	6.2	DF
E	AGC EX 2009	4.83	B C D		
CHEMBRED 407	221	F G H	AGC EX 2008	6.2	DF
E	AGC EX 2008	4.80	B C D		
HB 92-44	221	F G H	HB 92-44	6.2	DF
E	HB 133	4.74	C D		
HB 91-SS109	219	IF G H	CHEMBRED 407	6.1	DF
E G	SG X 87-75	4.62	D		
SG X 86-398	218	IF G H	AGC EX 2009	6.1	DF
E G	GA 89-308	4.61	D		
DELTAPINE 90	213	IJ G H	DPX 3818	6.1	DF
E G	STV X 76207	4.60	D		
STV X 76207	211	IJ H	ACALA 1517-88	5.9	F
E G	GA 89-41	4.59	D		
DP 5409	208	IJ	HB 91-SS109	5.7	
F G	PD 3-14	4.59	D		
DELTAPINE 50	202	J	GA 89-308		
5.6	G	ACALA 1517-88	4.36	E	

2.5% S.L. (INCHES)

(PERCENT)

UR

STRENGTH (G/TEX)

ACALA 1517-88	1.17	A	MD 14-24	85.0	
A	AGC EX 2008	33.0	A		

1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

SG X 87-75	1.17	B A	HB 133	84.4	B
A HB 147		32.6	B A		
AGC EX 2009	1.15	B C	SG X 87-75	84.3	B
A ACALA 1517-88		32.5	B A C		
AGC EX 2008	1.14	D C	AGC EX 2009	84.3	B
A AGC EX 2009		31.2	B D C		
GA 89-41	1.14	D C	PD 3-14	84.2	B
C GA 89-308		31.1	E D C		
HB 91-SS109	1.14	D C	AGC EX 2008	84.1	B
C D HB 133		30.9	E D F		
PD 3-14	1.14	D C E	HB 147	84.0	B
C D SG X 87-75		30.9	E D F		
MD 14-24	1.13	D F E	GA 89-308	84.0	EB
C D CHEMBRED 407		30.4	GE D F		
HB 133	1.12	D F E	ACALA 1517-88	83.9	EB
C D DPX 3818		30.2	GEHD F		
STV X 76207	1.12	G F E	DELTAPINE 50	83.9	EB
C D GA 89-41		29.9	GEHD F		
CHEMBRED 407	1.12	G F	SG X 86-398	83.9	EB
C D PD 3-14		29.9	GEHD F		
HB 92-44	1.12	G F	GA 89-41	83.8	
EBFC D SS 9202		29.7	GEHD F		
SS 9202	1.12	G F	SS 9202	83.7	
EBFC D HB 91-SS109		29.5	GEH F		
DELTAPINE 50	1.11	G F	HB 91-SS109	83.6	
EBFC D MD 14-24		29.5	GEH F		
DPX 3818	1.11	G F	DPX 3818	83.5	E
FC D SG X 86-398		29.5	G H F		
DP 5409	1.11	G F	CHEMBRED 407	83.5	E
FC D STV X 76207		29.4	G H F		
GA 89-308	1.11	G F	STV X 76207	83.4	E
F D HB 92-44		29.0	G HI		
HB 147	1.11	G F	DP 5409	83.3	E
F DELTAPINE 90		28.7	HI		
SG X 86-398	1.11	G F	DELTAPINE 90	83.1	
F DP 5409		27.7	J I		
DELTAPINE 90	1.10	G	HB 92-44	83.1	
F DELTAPINE 50		27.0	J		

Rd		COLORIMETER - b			
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MD 14-24	7.8	A		HB 92-44	71.3
A	HB 147	8.5		A	
SG X 86-398	7.6	B A		CHEMBRED 407	71.2
A	HB 133	8.4		B A	
HB 147	7.6	B A C		DPX 3818	71.2
A	CHEMBRED 407	8.3		B A C	
SG X 87-75	7.5	B A C		HB 91-SS109	71.1
A C	ACALA 1517-88	8.3		DB A C	
DP 5409	7.5	B A C		DELTAPINE 50	71.1
A C	GA 89-41	8.2		DB A C	
DELTAPINE 50	7.5	DB A C		DELTAPINE 90	70.8
A C	DP 5409	8.2		DB A C	
HB 133	7.4	DB E C		DP 5409	70.4
DBEA C	STV X 76207	8.2		DB A C	
PD 3-14	7.4	DB E C		SS 9202	70.3
DBEAFC	SS 9202	8.2		DB A C	
STV X 76207	7.3	DBFE C		ACALA 1517-88	70.2
DBEAFC	DELTAPINE 90	8.1		DB C	
AGC EX 2008	7.3	DBFE C		STV X 76207	70.0
DBE FC	SG X 87-75	8.1		DB C	
GA 89-41	7.3	DBFE C		AGC EX 2009	69.9
E FC	HB 92-44	8.1		DB C	
ACALA 1517-88	7.2	D FE C		AGC EX 2008	69.7
E F	DELTAPINE 50	8.1		DB C	
DELTAPINE 90	7.2	D FE C		GA 89-41	69.5
EGF	MD 14-24	8.1		DB C	
SS 9202	7.1	D FE		GA 89-308	69.5
HEGF	GA 89-308	8.1		D C	
CHEMBRED 407	7.1	D FE		HB 133	69.5
HEGF	DPX 3818	8.0		D C	
AGC EX 2009	7.1	D FE		HB 147	69.4
HEGF	AGC EX 2009	7.9		D C	
HB 91-SS109	7.0	FE		PD 3-14	69.1
GF	PD 3-14	7.9		D C	
GA 89-308	7.0	FE		SG X 87-75	68.5
G I	HB 91-SS109	7.9		D	
DPX 3818	7.0	F		SG X 86-398	68.3
H I	AGC EX 2008	7.9		D	

1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

HB 92-44 7.0 F MD 14-24
 67.8 I SG X 86-398 7.9 D

MICRONAIRE (SL-HVI) OIL
 (PERCENT) NITROGEN (PERCENT)

HB 92-44	5.21	A	SG X 86-398	20.91	
A	SG X 87-75	3.76	A		
DPX 3818	4.99	B A	DPX 3818	20.81	B
A	ACALA 1517-88	3.72	A		
SS 9202	4.98	B A	GA 89-41	20.58	B
A C	SG X 86-398	3.68	B A		
DELTAPINE 50	4.94	B	SS 9202	20.55	B
A C	AGC EX 2008	3.61	B C		
HB 147	4.94	B	SG X 87-75	20.54	B
A C	DELTAPINE 90	3.60	B C		
CHEMBRED 407	4.91	B	PD 3-14	20.51	B
A C	DPX 3818	3.59	B C		
DELTAPINE 90	4.89	B C	HB 133	20.39	DB
A C	PD 3-14	3.58	B C		
DP 5409	4.89	B C	CHEMBRED 407	20.24	
DBEA C	AGC EX 2009	3.57	B C		
HB 91-SS109	4.85	B C D	DELTAPINE 90	20.19	
DBEF C	CHEMBRED 407	3.56	C		
HB 133	4.83	EB C D	HB 91-SS109	20.08	D
EF C	SS 9202	3.55	C		
SG X 86-398	4.83	EB C D	HB 147	20.08	D
EF C	GA 89-308	3.54	C		
AGC EX 2009	4.79	EB C D	ACALA 1517-88	20.05	
DGEF C	DP 5409	3.53	C		
AGC EX 2008	4.76	EB C D	GA 89-308	20.00	
DGEF C	HB 147	3.53	C		
MD 14-24	4.76	EB C D	DELTAPINE 50	19.79	
DGEF H	GA 89-41	3.52	C		
SG X 87-75	4.64	E C D	AGC EX 2009	19.61	
GEF H	HB 133	3.52	C		

GA 89-308	4.62	E F D	AGC EX 2008	19.52	G
F H MD 14-24		3.52	C		
PD 3-14	4.61	E F D	HB 92-44	19.38	
G H STV X 76207		3.52	C		
STV X 76207	4.59	E F	MD 14-24		
19.22 H HB 91-SS109			3.50 C		
GA 89-41	4.58	E F	DP 5409		
19.18 H DELTAPINE 50			3.49 C		
ACALA 1517-88	4.38	F	STV X 76207	18.02	
I HB 92-44		3.36	D		

 FREE GOSSYPOL (PERCENT)

HB 92-44	0.89	A
PD 3-14	0.88	B A
STV X 76207	0.87	B A C
MD 14-24	0.86	DB A C
DPX 3818	0.85	DB A C
HB 133	0.83	DB A C
HB 91-SS109	0.81	DB A C
SG X 87-75	0.81	DB A C
GA 89-41	0.80	DB A C
SS 9202	0.79	DBEA C
GA 89-308	0.79	DBE C
DELTAPINE 50	0.78	DBE C
CHEMBRED 407	0.78	DBE C
SG X 86-398	0.77	D E C
DELTAPINE 90	0.76	D E
DP 5409	0.76	D E
HB 147	0.70	EF
AGC EX 2008	0.66	F
AGC EX 2009	0.66	F
ACALA 1517-88	0.57	G

 AREALOMETER - A (mm²/mm³)

AREALOMETER - D (mm²/

mm³)

AREALOMETER - I

ACALA 1517-88	439	A	STV X 76207	32.1	
A	STV X 76207	1.8	A		
PD 3-14	432	B A	SG X 87-75	31.3	B
A	SG X 87-75	1.8	B A		
SG X 87-75	428	B A C	DP 5409	29.7	B
A C	DP 5409	1.8	B A C		
GA 89-308	428	B A C	PD 3-14	28.4	B
A C	PD 3-14	1.7	B A C		
STV X 76207	428	B A C	CHEMBRED 407	27.9	DB
A C	DELTAPINE 50	1.7	DB A C		
GA 89-41	427	B A C	SS 9202	27.9	DB
A C	CHEMBRED 407	1.7	DB A C		
HB 133	417	B D C	DELTAPINE 50	27.9	DB
A C	GA 89-308	1.7	DB A C		
AGC EX 2008	417	B D C	HB 133	27.5	
DBEA C	SS 9202	1.7	DB A C		
MD 14-24	416	B D C	GA 89-308	27.4	
DBEA C	HB 133	1.7	DBEA C		
AGC EX 2009	413	D C	HB 147	27.0	
DBE C	HB 147	1.7	DBEA C		
SS 9202	412	D C	GA 89-41	26.8	
DBE C	GA 89-41	1.7	DBE C		
DELTAPINE 50	412	D C	DELTAPINE 90	26.5	
DBE C	DELTAPINE 90	1.7	DBE C		
HB 147	411	D C	SG X 86-398	26.4	
DBE C	SG X 86-398	1.7	DBE C		
HB 91-SS109	411	D C	AGC EX 2008	25.6	D
E C	AGC EX 2008	1.7	D E C		
CHEMBRED 407	410	D C	ACALA 1517-88	25.3	D
EF C	ACALA 1517-88	1.7	D EF C		
DP 5409	410	D C	AGC EX 2009	25.2	D
EF C	AGC EX 2009	1.7	D EF C		
DELTAPINE 90	410	D C	MD 14-24	24.9	D
EF C	MD 14-24	1.7	D EF C		
SG X 86-398	410	D C	DPX 3818	22.9	D
EF	DPX 3818	1.6	D EF		
DPX 3818	400	E D	HB 91-SS109	22.4	
EF	HB 91-SS109	1.6	EF		
HB 92-44	392	E	HB 92-44	20.5	

F	HB 92-44	1.6	F		

AREALOMETER - M (PERCENT)			AREALOMETER - p		
(Microns)		AREALOMETER -w	(MG/INCH)		

HB 92-44	91	A	DP 5409	53.67	
A	DP 5409	5.06	A		
HB 91-SS109	89	B A	STV X 76207	52.68	B
A	CHEMBRED 407	4.97	B A		
DPX 3818	89	B A C	CHEMBRED 407	52.55	B
A C	HB 92-44	4.92	B A C		
MD 14-24	87	DB A C	SG X 87-75	52.24	DB
A C	DELTAPINE 90	4.90	B A C		
ACALA 1517-88	87	DB A C	SS 9202	52.13	
DBEA C	DPX 3818	4.90	B A C		
AGC EX 2009	87	DB A C	DELTAPINE 50	52.09	
DBEA C	SS 9202	4.90	B A C		
AGC EX 2008	86	DB C	HB 147	51.84	
DBEAFC	DELTAPINE 50	4.89	B A C		
SG X 86-398	86	DB E C	DELTAPINE 90	51.69	
DBEAFC	HB 147	4.89	B A C		
DELTAPINE 90	86	DB E C	SG X 86-398	51.46	
DBE FC	SG X 86-398	4.87	DB A C		
GA 89-41	86	DBFE C	HB 133	51.28	
DBE FC	STV X 76207	4.78	DB E C		
HB 147	85	DBFE C	DPX 3818	50.54	D
EGFC	HB 133	4.76	DB E C		
HB 133	85	D FE C	AGC EX 2009	50.36	D
EGF	SG X 87-75	4.73	DB E C		
GA 89-308	85	D FE C	AGC EX 2008	50.22	D
EGF	AGC EX 2009	4.72	DBFE C		
DELTAPINE 50	85	D FE C	GA 89-308	50.10	
EGF	AGC EX 2008	4.66	D FE C		
SS 9202	85	D FE C	MD 14-24	49.87	
GF	MD 14-24	4.65	D FE C		

CHEMBRED 407	85	D FE C	PD 3-14	49.82	
GF	HB 91-SS109	4.61	D FE		
PD 3-14	85	D FE C	HB 92-44	49.80	
GF	GA 89-308	4.53	FE		
DP 5409	83	D FE	GA 89-41	49.76	
GF	GA 89-41	4.51	FE		
SG X 87-75	82	FE	HB 91-SS109	48.82	H
G	PD 3-14	4.46	F		
STV X 76207	82	F	ACALA 1517-88	47.30	
H	ACALA 1517-88	4.17	G		

AREALOMETER - t (MICRONS)

HB 92-44	3.22	A
DPX 3818	3.12	B A
HB 91-SS109	3.06	B C
SG X 86-398	3.03	B C D
DELTAPINE 90	3.01	EB C D
AGC EX 2009	3.00	EBFC D
HB 147	2.99	EBFC D
MD 14-24	2.99	EBFC D
DELTAPINE 50	2.98	EBFC D
CHEMBRED 407	2.98	EBFC D
SS 9202	2.97	EBFC D
AGC EX 2008	2.96	EBFC D
DP 5409	2.95	EBFC D
HB 133	2.95	EBFC D
GA 89-41	2.88	E FC D
GA 89-308	2.86	E F D
PD 3-14	2.86	E F D
ACALA 1517-88	2.83	E F
STV X 76207	2.83	E F
SG X 87-75	2.83	F



1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
ROCKY MOUNT, NC	1161	A	5.72	44.7	11.8	.	.	.	.	.
TIFTON, GA	1138	B A	4.75	40.5	9.7	.	.	.	.	.
JACKSON, TN	1087	B	5.59	36.7	10.8	152	1.17	0.58	224	6.3	4.57
FLORENCE, SC	870	C	4.93	40.1	10.3	138	1.10	0.56	214	8.0	5.17
STONEVILLE, MS	824	D C	4.64	35.6	10.1	149	1.14	0.57	228	5.9	4.66
SAINT JOSEPH, LA	773	D	4.77	39.4	10.6	143	1.13	0.55	233	5.9	5.11
BELLE MINA, AL	712	E	5.24	40.5	10.1	135	1.12	0.54	223	6.2	5.08
PORTAGEVILLE, MO	645	F	.	.	12.0	144	1.17	0.59	235	6.4	4.58
COLLEGE STATION, TX	408	G	4.62	35.7	9.7	129	1.11	0.52	221	5.8	4.34

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
ROCKY MOUNT, NC	.	.	.	.	.	.	.	.	.	.
TIFTON, GA	.	.	.	.	.	.	.	.	.	.
JACKSON, TN	1.16	85.0	30.0	5.2	68.7	11	4.74	20.72	3.36	0.84
FLORENCE, SC	1.10	83.1	32.0	10.0	69.0	8.4	5.17	20.86	3.89	0.75
STONEVILLE, MS	1.13	84.3	29.4	5.6	76.8	8.2	4.56	19.86	3.41	0.83

SAINT JOSEPH, LA	1.13	84.3	31.6	9.7	74.5	8.0	5.17	19.33	3.68	0.68
BELLE MINA, AL	1.10	82.8	28.2	5.7	65.3	8.3	5.04	19.22	3.77	0.78
PORTAGEVILLE, MO	1.17	85.7	30.8	5.6	69.1	7.0	4.58	19.47	3.35	0.74
COLLEGE STATION, TX	1.11	81.8	29.0	9.2	66.1	5.8	4.33	20.44	3.46	0.85

Arealometer Data

LOCATION	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
ROCKY MOUNT, NC	.	.	.	.	.	.	.
TIFTON, GA	.	.	.	.	.	.	.
JACKSON, TN	425	29.1	1.74	84	51.40	4.68	2.9
FLORENCE, SC	394	23.3	1.62	88	51.65	5.07	3.2
STONEVILLE, MS	430	28.8	1.73	84	50.52	4.54	2.8
SAINT JOSEPH, LA	392	19.9	1.54	91	49.36	4.87	3.2
BELLE MINA, AL	396	22.9	1.61	89	51.08	4.99	3.2
PORTAGEVILLE, MO	432	33.2	1.82	81	52.90	4.74	2.8
COLLEGE STATION, TX	443	29.5	1.75	83	49.47	4.32	2.7





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

SUBREGIONAL SUMMARY COMBINING COLLEGE STATION, TX; JACKSON, TN; PORTAGEVILLE, MO; SAINT JOSEPH, LA;
STONEVILLE, MS

VARIETIES COMBINING LOCATIONS

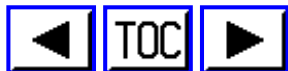
VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
STV X 76207	856	A	5.17	38.6	10.8	140	1.14	0.56	213	6.4	4.40
AGC EX 2009	847	A	5.48	35.8	11.9	148	1.15	0.57	239	5.8	4.73
DP 5409	828	B A	4.56	38.1	9.9	124	1.14	0.55	209	6.9	4.69
DELTAPINE 50	819	B A C	4.90	35.5	10.3	127	1.13	0.55	206	6.5	4.78
GA 89-308	815	B A C	5.24	36.3	11.7	156	1.13	0.56	241	5.2	4.51
SG X 86-398	808	B A C	4.64	37.2	10.4	143	1.13	0.56	221	5.9	4.68
SS 9202	804	B A C	4.79	36.3	10.4	140	1.14	0.56	225	6.1	4.76
SG X 87-75	799	DBDA C	4.46	37.4	10.8	146	1.19	0.58	228	6.0	4.44
CHEMBRED 407	792	DBDA C	4.63	37.1	9.9	139	1.12	0.54	222	5.8	4.72
HB 133	791	DBDA C	4.73	36.6	10.9	151	1.14	0.56	240	6.0	4.58
HB 92-44	789	DBDA C	4.73	36.8	9.7	133	1.14	0.55	223	5.9	5.02
MD 14-24	787	DBDA C	4.46	36.5	10.0	147	1.15	0.57	232	6.4	4.65
HB 91-SS109	784	DBDA C	4.70	36.3	9.8	140	1.17	0.57	222	5.4	4.73
DELTAPINE 90	781	DBDA C	4.82	35.9	9.9	130	1.13	0.55	212	6.8	4.69
DPX 3818	779	DBDA C	4.67	37.7	10.0	139	1.13	0.55	222	5.7	4.91
PD 3-14	776	DBDA C	4.74	36.7	10.4	151	1.16	0.57	236	6.4	4.45
AGC EX 2008	727	DBD C	5.34	35.4	11.9	153	1.16	0.57	242	5.8	4.74
HB 147	717	DBD C	5.04	36.3	11.1	154	1.13	0.57	249	6.6	4.77
GA 89-41	712	D D C	5.19	36.5	10.7	145	1.15	0.56	229	6.1	4.48
ACALA 1517-88	690	D D	4.74	35.4	11.0	165	1.19	0.58	253	5.5	4.25

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
STV X 76207	1.13	83.8	29.5	7.2	71.1	8.1	4.41	18.09	3.41	0.93
AGC EX 2009	1.16	84.7	31.7	6.9	71.1	7.9	4.65	19.77	3.46	0.66
DP 5409	1.12	83.5	27.6	7.4	71.8	8.2	4.77	19.44	3.42	0.79
DELTAPINE 50	1.12	83.8	27.3	7.1	72.1	8.1	4.86	19.94	3.40	0.82
GA 89-308	1.13	84.4	30.8	6.7	70.5	7.9	4.55	20.08	3.45	0.78
SG X 86-398	1.12	84.1	29.3	7.4	69.9	7.8	4.72	20.65	3.54	0.77
SS 9202	1.13	84.2	29.7	6.9	71.4	8.1	4.86	20.50	3.45	0.80
SG X 87-75	1.18	84.8	30.8	7.3	69.7	8.0	4.46	20.47	3.61	0.82
CHEMBRED 407	1.13	83.9	30.7	6.9	72.1	8.3	4.76	20.19	3.44	0.77
HB 133	1.14	84.7	31.2	7.3	70.4	8.2	4.64	20.15	3.40	0.84
HB 92-44	1.12	83.4	28.8	6.7	72.5	8.1	5.09	19.35	3.27	0.90
MD 14-24	1.14	85.3	29.7	7.5	68.8	7.9	4.59	19.29	3.41	0.87
HB 91-SS109	1.15	84.2	29.8	6.8	72.2	7.8	4.73	19.86	3.37	0.80
DELTAPINE 90	1.11	83.4	28.2	7.0	72.2	7.9	4.72	20.15	3.53	0.75
DPX 3818	1.12	83.8	30.2	6.7	72.3	8.0	4.92	20.59	3.50	0.81
PD 3-14	1.15	84.7	29.8	7.2	70.1	7.8	4.53	20.39	3.45	0.90
AGC EX 2008	1.16	84.5	32.4	6.9	70.4	7.8	4.72	19.53	3.52	0.67
HB 147	1.12	84.3	32.8	7.4	70.3	8.3	4.82	20.12	3.40	0.71
GA 89-41	1.16	84.4	30.2	7.0	70.6	8.2	4.46	20.72	3.40	0.81
ACALA 1517-88	1.19	84.5	32.8	7.0	71.3	8.2	4.27	19.94	3.64	0.57

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STV X 76207	443	35.8	1.87	79	52.97	4.63	2.7
AGC EX 2009	424	26.7	1.69	86	49.92	4.54	2.9
DP 5409	414	30.0	1.76	83	53.26	4.96	2.9
DELTAPINE 50	418	28.8	1.73	84	51.76	4.78	2.9
GA 89-308	433	27.7	1.71	85	49.78	4.46	2.8
SG X 86-398	417	27.2	1.69	85	50.92	4.72	3.0
SS 9202	418	29.5	1.74	84	52.29	4.85	2.9
SG X 87-75	438	32.8	1.81	81	51.86	4.58	2.8
CHEMBRED 407	420	30.0	1.76	83	52.66	4.87	2.9
HB 133	430	30.4	1.76	83	51.51	4.63	2.8

HB 92-44	399	21.1	1.57	90	49.32	4.78	3.2
MD 14-24	427	26.9	1.69	86	49.74	4.51	2.9
HB 91-SS109	422	24.3	1.64	88	48.67	4.46	3.0
DELTAPINE 90	418	27.9	1.71	85	51.50	4.79	3.0
DPX 3818	408	23.4	1.62	88	49.88	4.74	3.1
PD 3-14	441	30.0	1.74	84	49.48	4.33	2.8
AGC EX 2008	420	27.1	1.70	85	50.83	4.69	2.9
HB 147	418	28.6	1.73	84	51.93	4.82	2.9
GA 89-41	431	26.6	1.68	86	48.94	4.38	2.9
ACALA 1517-88	453	28.0	1.71	85	47.45	4.05	2.7





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

SUBREGIONAL SUMMARY COMBINING BELLE MINA, AL; FLORENCE, SC; ROCKY MOUNT, NC; TIFTON, GA

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
HB 91-SS109	1068	A	5.00	41.7	9.3	133	1.12	0.55	212	6.3	5.20
DPX 3818	1055	B A	4.93	41.9	9.6	138	1.11	0.55	221	7.0	5.23
SG X 87-75	1055	B A	4.78	42.7	10.6	138	1.16	0.58	215	6.9	5.08
PD 3-14	1037	B A C	5.11	41.2	10.8	146	1.11	0.55	229	6.4	4.95
CHEMBRED 407	1037	B A C	5.13	41.7	10.2	131	1.09	0.53	217	6.8	5.28
DELTAPINE 50	1034	B A C	5.28	40.6	10.8	119	1.10	0.54	192	8.5	4.95
SS 9202	1011	B A C	4.97	41.6	9.6	134	1.10	0.55	211	6.9	5.20
HB 92-44	1009	B A C	4.92	41.1	9.7	128	1.11	0.55	214	6.9	5.38
HB 133	1008	B A C	5.19	42.2	11.0	141	1.10	0.56	222	7.0	5.13
DP 5409	997	B A C	4.74	42.9	9.8	120	1.10	0.54	206	7.9	5.28
STV X 76207	983	B A C	5.51	43.3	10.4	135	1.12	0.56	207	7.2	5.10
DELTAPINE 90	970	B A C	5.11	40.5	9.9	136	1.09	0.54	215	7.0	5.30
GA 89-41	966	B A C	5.70	41.0	10.4	134	1.10	0.56	214	7.4	4.88
AGC EX 2009	957	B A C	6.19	39.8	12.1	140	1.11	0.55	216	6.9	5.08
HB 147	946	DBDA C	5.71	40.8	11.2	147	1.10	0.56	238	7.3	5.25
MD 14-24	935	DBDA C	4.67	40.6	10.2	134	1.10	0.56	219	8.1	5.40
SG X 86-398	909	DBD C	4.64	42.1	9.8	132	1.09	0.54	211	7.0	5.35
GA 89-308	892	D D C	5.33	42.5	11.6	145	1.10	0.55	225	6.4	4.85
AGC EX 2008	811	D DE	5.46	40.2	11.4	157	1.13	0.56	242	7.1	4.95
ACALA 1517-88	726	E	4.86	40.9	11.0	149	1.15	0.56	237	6.9	4.65

1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST, SUBREGIONAL SUMMARY

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
HB 91-SS109	1.11	82.3	28.9	7.6	68.3	8.1	5.15	20.65	3.81	0.83
DPX 3818	1.10	82.8	30.3	7.6	68.3	8.1	5.15	21.35	3.80	0.92
SG X 87-75	1.13	83.3	31.1	8.1	65.2	8.3	5.10	20.72	4.13	0.78
PD 3-14	1.11	83.0	30.4	7.8	66.8	8.2	4.80	20.82	3.90	0.83
CHEMBRED 407	1.09	82.6	29.6	7.6	69.1	8.1	5.30	20.37	3.86	0.82
DELTAPINE 50	1.10	84.2	26.2	8.3	68.5	8.2	5.15	19.44	3.73	0.70
SS 9202	1.08	82.5	29.6	7.7	67.5	8.4	5.28	20.66	3.80	0.77
HB 92-44	1.11	82.4	29.5	7.8	68.3	8.2	5.50	19.44	3.58	0.85
HB 133	1.08	83.5	30.3	7.7	67.1	8.9	5.30	21.01	3.81	0.81
DP 5409	1.10	82.7	28.2	7.9	67.1	8.2	5.18	18.54	3.80	0.70
STV X 76207	1.09	82.5	29.2	7.7	67.2	8.5	5.03	17.86	3.80	0.73
DELTAPINE 90	1.07	82.6	30.0	7.7	67.6	8.6	5.30	20.29	3.80	0.80
GA 89-41	1.10	82.6	29.3	7.9	66.9	8.4	4.88	20.23	3.81	0.79
AGC EX 2009	1.12	83.3	30.1	7.7	66.9	8.1	5.13	19.22	3.82	0.68
HB 147	1.10	83.3	32.2	7.9	66.9	9.0	5.23	19.99	3.87	0.66
MD 14-24	1.09	84.0	28.9	8.6	65.1	8.5	5.20	19.06	3.80	0.83
SG X 86-398	1.09	83.4	29.9	8.2	64.5	8.1	5.10	21.57	4.02	0.77
GA 89-308	1.08	83.0	31.9	7.8	67.0	8.5	4.80	19.81	3.78	0.80
AGC EX 2008	1.10	83.1	34.3	8.3	67.8	8.3	4.88	19.47	3.82	0.63
ACALA 1517-88	1.12	82.5	31.7	7.6	67.5	8.5	4.65	20.30	3.93	0.58

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
HB 91-SS109	382	17.8	1.50	93	49.21	4.97	3.3
DPX 3818	381	21.6	1.58	90	52.19	5.30	3.3
SG X 87-75	404	27.6	1.71	85	53.21	5.09	3.0
PD 3-14	409	24.6	1.65	87	50.67	4.79	3.0
CHEMBRED 407	387	22.8	1.61	89	52.26	5.22	3.2
DELTAPINE 50	396	25.6	1.67	87	52.92	5.17	3.1
SS 9202	398	24.1	1.64	88	51.73	5.03	3.1
HB 92-44	376	19.1	1.53	92	51.01	5.25	3.4
HB 133	384	20.1	1.55	91	50.70	5.09	3.3
DP 5409	400	29.0	1.74	84	54.71	5.29	3.0
STV X 76207	391	23.1	1.62	88	51.96	5.14	3.2

DELTAPINE 90	389	23.1	1.62	88	52.17	5.17	3.2
GA 89-41	414	27.5	1.71	85	51.83	4.83	2.9
AGC EX 2009	385	21.5	1.58	90	51.48	5.17	3.3
HB 147	393	23.1	1.62	89	51.61	5.07	3.2
MD 14-24	387	19.9	1.55	91	50.20	5.02	3.3
SG X 86-398	391	24.4	1.64	88	52.83	5.24	3.2
GA 89-308	418	26.6	1.69	86	50.90	4.71	2.9
AGC EX 2008	410	22.0	1.59	89	48.71	4.60	3.1
ACALA 1517-88	405	18.5	1.51	93	46.96	4.48	3.1





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

COLLEGE STATION, TX

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
DELTAPINE 50	620	A	5.29	34.0	10.1	104	1.10	0.50	174	7.1	4.65
STV X 76207	586	B A	4.86	39.0	10.1	132	1.12	0.53	201	6.3	4.30
MD 14-24	538	B A C	4.31	37.0	9.4	135	1.12	0.53	239	6.5	4.60
DP 5409	536	B A C	4.37	36.5	9.5	103	1.11	0.51	210	6.4	4.45
GA 89-308	480	DB A C	4.91	35.0	10.8	141	1.10	0.52	243	5.3	4.15
HB 91-SS109	463	DB A C	4.69	35.5	9.0	124	1.12	0.52	218	5.1	4.55
SG X 87-75	445	DB A C	4.45	37.5	9.5	136	1.16	0.53	229	5.5	4.10
HB 92-44	430	DBEA C	4.43	36.0	8.7	125	1.10	0.51	214	5.5	4.55
AGC EX 2009	426	DBEA C	5.19	34.5	11.1	126	1.10	0.51	229	5.6	4.65
SG X 86-398	398	DBEA C	4.87	37.0	9.6	134	1.13	0.53	217	5.6	4.45
HB 147	386	DBE C	4.86	36.0	10.3	142	1.11	0.53	258	6.0	4.20
CHEMBRED 407	375	DBE C	4.42	36.0	9.1	125	1.07	0.50	204	5.9	4.55
HB 133	357	D E C	4.35	34.5	10.1	136	1.12	0.53	234	5.8	4.25
PD 3-14	357	D E C	4.51	37.0	9.8	137	1.13	0.54	228	5.4	4.05
DPX 3818	356	D E C	4.19	36.0	8.9	121	1.10	0.51	209	5.4	4.40
SS 9202	354	D E C	4.47	33.5	9.2	128	1.12	0.53	228	5.9	4.40
DELTAPINE 90	300	D E	4.84	34.0	8.8	117	1.10	0.52	209	6.0	4.00
GA 89-41	286	D E	4.74	37.0	9.6	122	1.11	0.51	221	5.9	4.25
AGC EX 2008	260	D E	4.62	34.5	11.0	152	1.13	0.54	245	5.6	4.25
ACALA 1517-88	211	E	4.06	33.0	10.0	152	1.14	0.54	221	6.3	3.90

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
DELTAPINE 50	1.10	81.4	24.4	9.3	69.0	5.8	4.65	21.35	3.45	1.06
STV X 76207	1.12	82.5	29.5	9.5	65.3	5.7	4.30	19.34	3.27	1.24
MD 14-24	1.12	84.0	28.7	9.9	60.2	5.6	4.50	19.76	3.35	1.13
DP 5409	1.08	80.2	26.5	9.4	67.0	5.8	4.55	20.91	3.43	0.85
GA 89-308	1.12	82.2	29.1	8.9	64.5	5.8	3.90	20.20	3.55	0.75
HB 91-SS109	1.10	81.5	27.6	8.9	67.4	5.6	4.55	20.73	3.52	0.86
SG X 87-75	1.15	82.0	29.7	9.3	63.2	5.7	3.90	20.02	3.50	0.76
HB 92-44	1.05	80.0	26.3	8.9	69.4	6.0	4.60	19.68	3.30	1.06
AGC EX 2009	1.13	82.5	28.7	8.9	65.8	6.1	4.40	20.51	3.46	0.64
SG X 86-398	1.12	82.2	29.1	9.6	64.5	5.8	4.55	21.25	3.51	0.94
HB 147	1.10	82.1	33.0	9.9	66.9	5.9	4.15	20.38	3.48	0.75
CHEMBRED 407	1.08	81.1	30.7	9.4	67.9	6.5	4.60	21.03	3.37	0.75
HB 133	1.13	82.2	30.0	9.3	68.2	6.3	4.20	20.26	3.34	1.01
PD 3-14	1.11	81.5	26.4	8.6	65.2	5.4	4.10	21.26	3.38	0.94
DPX 3818	1.09	81.0	30.5	9.5	68.6	5.7	4.70	21.03	3.52	0.79
SS 9202	1.11	81.8	30.0	9.4	65.8	5.8	4.40	21.22	3.52	0.91
DELTAPINE 90	1.07	80.7	28.8	8.7	68.0	5.9	4.10	19.83	3.65	0.66
GA 89-41	1.14	82.1	27.2	9.0	64.5	5.9	4.25	21.05	3.45	0.85
AGC EX 2008	1.15	82.9	34.4	9.6	64.6	5.4	4.15	19.92	3.49	0.55
ACALA 1517-88	1.16	82.1	29.3	8.9	66.9	6.6	4.05	19.04	3.67	0.51

Arealometer Data

VARIETY	A	D	I	M	p	w	t
	(mm ² /mm ³)	(mm ² /mm ³)		(%)	(microns)	(mg/inch)	(microns)
DELTAPINE 50	428	31.3	1.79	82	52.45	4.74	2.8
STV X 76207	438	32.5	1.81	81	51.89	4.58	2.8
MD 14-24	422	21.0	1.57	90	46.75	4.27	3.0
DP 5409	416	23.8	1.63	88	49.32	4.59	3.0
GA 89-308	463	29.0	1.74	84	47.08	3.93	2.6
HB 91-SS109	440	30.3	1.77	83	50.46	4.43	2.7
SG X 87-75	454	34.8	1.85	80	51.05	4.34	2.6
HB 92-44	422	22.0	1.59	90	47.32	4.33	3.0
AGC EX 2009	428	29.0	1.74	84	51.10	4.61	2.8
SG X 86-398	428	27.0	1.70	85	49.89	4.50	2.9
HB 147	456	34.0	1.83	80	50.41	4.29	2.7

CHEMBRED 407	440	32.3	1.80	81	51.57	4.54	2.7
HB 133	460	34.3	1.84	80	50.30	4.22	2.6
PD 3-14	471	35.8	1.87	79	49.69	4.07	2.5
DPX 3818	447	26.8	1.70	86	47.67	4.12	2.7
SS 9202	442	30.0	1.76	83	50.05	4.38	2.7
DELTAPINE 90	463	33.0	1.81	81	49.12	4.13	2.6
GA 89-41	441	27.3	1.70	85	48.36	4.24	2.8
AGC EX 2008	450	30.3	1.76	83	49.13	4.23	2.7
ACALA 1517-88	461	26.0	1.68	86	45.80	3.84	2.7





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

SAINT JOSEPH, LA

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
DPX 3818	936	A	4.55	40.8	10.1	139	1.12	0.55	237	5.6	5.25
GA 89-308	915	A	5.35	38.8	11.8	149	1.13	0.57	249	5.0	5.00
SG X 86-398	875	B A	4.45	40.4	10.8	145	1.11	0.54	221	5.1	5.35
AGC EX 2009	855	B A	5.75	38.0	12.2	147	1.12	0.55	246	6.1	5.10
MD 14-24	853	B A	4.20	39.0	9.8	151	1.14	0.56	234	5.8	5.00
DELTAPINE 90	836	B A	4.90	40.2	10.0	115	1.12	0.53	200	7.1	5.40
SS 9202	816	B A	4.60	40.2	9.8	140	1.14	0.56	219	5.5	5.25
HB 133	784	B A	4.40	39.9	11.1	157	1.15	0.57	260	5.4	4.95
HB 91-SS109	772	B A	4.55	38.7	10.1	136	1.15	0.56	224	5.3	5.20
SG X 87-75	757	B A	4.25	40.9	10.4	152	1.19	0.58	237	5.1	5.00
CHEMBRED 407	751	B A	4.50	39.5	10.5	139	1.10	0.52	234	6.1	5.25
AGC EX 2008	750	B A	5.40	37.7	12.2	146	1.13	0.53	244	6.0	5.35
HB 92-44	743	B A	4.70	39.4	9.6	126	1.11	0.53	217	5.6	5.40
DELTAPINE 50	739	B A	4.85	38.2	10.8	130	1.12	0.55	226	5.5	5.35
STV X 76207	735	B A	5.05	40.3	10.9	141	1.14	0.55	211	5.9	4.80
HB 147	712	B A	5.20	39.1	11.5	155	1.13	0.57	251	6.8	5.00
PD 3-14	709	B A	4.65	39.1	10.4	148	1.13	0.57	230	6.9	5.10
DP 5409	678	B A	4.25	40.9	9.6	123	1.11	0.54	222	7.3	4.90
GA 89-41	628	B	5.05	39.4	10.6	153	1.12	0.55	233	6.0	4.80
ACALA 1517-88	617	B	4.75	38.5	11.1	167	1.19	0.57	259	5.4	4.80

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
DPX 3818	1.12	84.2	31.4	9.6	75.9	7.9	5.20	20.01	3.65	0.69
GA 89-308	1.11	83.9	32.5	9.4	73.9	7.6	5.10	19.95	3.70	0.66
SG X 86-398	1.11	84.7	30.3	9.8	73.0	8.0	5.40	20.65	3.89	0.68
AGC EX 2009	1.15	84.9	33.0	9.5	74.7	7.6	5.10	18.88	3.60	0.64
MD 14-24	1.14	84.2	31.1	9.5	73.6	7.9	4.95	18.37	3.69	0.59
DELTAPINE 90	1.12	83.8	26.7	9.8	75.8	8.0	5.45	19.57	3.74	0.77
SS 9202	1.11	83.8	31.2	9.6	74.2	8.1	5.30	19.38	3.73	0.66
HB 133	1.14	85.0	33.3	9.9	73.3	8.3	5.15	20.15	3.71	0.75
HB 91-SS109	1.15	84.5	30.7	9.3	74.9	8.0	5.30	19.39	3.62	0.73
SG X 87-75	1.19	85.7	32.3	9.8	73.9	8.2	5.00	20.04	3.89	0.78
CHEMBRED 407	1.12	84.3	32.7	9.7	75.4	8.1	5.20	19.18	3.71	0.71
AGC EX 2008	1.16	84.6	32.8	9.6	74.8	7.8	5.20	18.69	3.69	0.67
HB 92-44	1.11	83.3	30.2	9.5	76.0	8.0	5.55	18.86	3.52	0.77
DELTAPINE 50	1.09	83.3	31.2	9.7	76.5	8.1	5.40	18.96	3.62	0.67
STV X 76207	1.14	84.2	29.9	9.8	74.1	8.1	5.05	17.09	3.67	0.72
HB 147	1.14	84.5	35.8	10.0	73.1	8.4	5.05	19.66	3.52	0.56
PD 3-14	1.13	85.2	31.2	10.0	72.7	8.0	5.25	20.33	3.72	0.72
DP 5409	1.13	84.3	30.5	9.9	76.1	8.0	5.15	18.50	3.58	0.66
GA 89-41	1.14	84.4	32.5	9.8	74.5	8.6	4.75	19.37	3.59	0.69
ACALA 1517-88	1.16	84.4	33.3	9.7	74.3	7.9	4.90	19.59	3.83	0.49

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DPX 3818	382	16.0	1.45	95	47.71	4.83	3.4
GA 89-308	401	24.5	1.65	87	51.58	4.96	3.1
SG X 86-398	376	16.5	1.45	95	48.27	4.95	3.6
AGC EX 2009	395	17.3	1.48	94	47.29	4.63	3.2
MD 14-24	408	19.8	1.54	91	47.52	4.50	3.1
DELTAPINE 90	377	22.8	1.61	89	53.62	5.49	3.3
SS 9202	379	20.0	1.55	91	51.32	5.24	3.3
HB 133	407	22.3	1.60	89	49.40	4.69	3.1
HB 91-SS109	392	17.8	1.50	93	47.88	4.71	3.3
SG X 87-75	406	25.0	1.66	87	51.14	4.86	3.0
CHEMBRED 407	378	23.3	1.62	88	53.83	5.50	3.3

AGC EX 2008	390	21.3	1.58	90	50.93	5.06	3.2
HB 92-44	363	13.0	1.38	97	47.74	5.08	3.6
DELTAPINE 50	384	15.8	1.45	95	47.20	4.74	3.4
STV X 76207	413	30.0	1.76	83	53.36	4.99	2.9
HB 147	394	23.5	1.62	88	51.77	5.08	3.2
PD 3-14	385	11.0	1.33	99	43.47	4.37	3.5
DP 5409	395	26.8	1.69	85	53.87	5.26	3.1
GA 89-41	410	17.5	1.49	93	45.58	4.29	3.1
ACALA 1517-88	407	14.5	1.42	96	43.80	4.15	3.2





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

STONEVILLE, MS

VARIETY	LINT YIELD		BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
DP 5409	1001	A	4.50	37.5	9.5	127	1.13	0.54	204	7.3	4.75
SS 9202	966	B A	4.70	35.7	10.0	146	1.13	0.58	231	6.1	5.10
CHEMBRED 407	912	B A C	4.50	36.8	9.2	141	1.11	0.55	219	5.9	4.75
AGC EX 2009	901	B D C	5.13	35.0	11.6	164	1.17	0.59	267	5.5	4.65
DELTAPINE 50	871	EB D C	4.43	35.1	9.8	146	1.11	0.56	226	5.3	4.90
HB 92-44	860	E D C	4.54	35.8	9.3	138	1.13	0.56	218	5.9	5.30
GA 89-308	838	EF D C	4.96	35.5	11.1	166	1.12	0.57	231	5.4	4.40
HB 91-SS109	838	EF D C	4.36	35.1	9.2	149	1.19	0.58	220	5.3	4.30
SG X 87-75	825	EF D C	4.23	35.5	10.5	150	1.19	0.59	223	6.0	4.30
STV X 76207	825	EF D C	4.78	37.6	10.3	146	1.14	0.56	215	6.4	4.35
SG X 86-398	822	EF D C	4.21	35.8	9.5	151	1.12	0.56	220	6.1	4.55
MD 14-24	810	EFGD C	4.41	35.5	9.9	156	1.16	0.58	222	5.5	4.30
PD 3-14	797	EFGD	4.35	35.1	9.8	153	1.14	0.58	238	6.8	4.45
HB 133	790	EFG	4.57	36.0	10.7	158	1.10	0.56	235	5.9	4.70
DELTAPINE 90	771	EFG	4.48	33.7	9.8	129	1.12	0.55	201	7.5	4.50
ACALA 1517-88	743	FG	4.85	35.2	10.9	172	1.21	0.59	262	5.0	4.30
DPX 3818	737	FG	4.57	37.2	9.7	152	1.11	0.55	230	5.3	5.10
GA 89-41	732	FG	5.14	35.1	10.3	147	1.17	0.59	224	5.5	4.70
HB 147	732	FG	4.71	34.9	10.5	153	1.12	0.58	237	6.4	4.90
AGC EX 2008	703	G	5.31	34.8	11.3	148	1.15	0.58	232	5.8	4.80

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
DP 5409	1.09	82.9	26.0	5.8	76.6	8.3	4.70	19.45	3.38	0.84
SS 9202	1.13	85.4	28.7	5.2	77.8	8.2	4.95	20.77	3.23	0.89
CHEMBRED 407	1.12	83.8	28.6	5.4	77.4	8.4	4.75	20.44	3.48	0.76
AGC EX 2009	1.15	84.6	33.8	5.6	76.3	7.8	4.55	19.65	3.68	0.61
DELTAPINE 50	1.10	83.9	28.4	5.1	75.9	8.5	4.80	20.02	3.39	0.83
HB 92-44	1.11	84.3	27.5	5.0	78.0	8.3	5.20	19.10	3.05	0.99
GA 89-308	1.12	84.0	29.4	5.4	76.4	7.9	4.35	20.47	3.22	0.91
HB 91-SS109	1.17	84.2	31.2	5.4	79.0	7.6	4.20	19.21	3.31	0.79
SG X 87-75	1.16	84.9	30.5	6.1	76.2	8.5	4.30	20.21	3.52	0.93
STV X 76207	1.14	84.2	29.9	5.9	77.9	8.3	4.25	17.36	3.32	0.92
SG X 86-398	1.11	84.0	28.7	6.1	77.1	7.9	4.40	19.62	3.53	0.77
MD 14-24	1.16	86.0	30.9	5.6	74.5	7.9	3.90	20.71	3.46	0.91
PD 3-14	1.12	85.7	29.0	6.7	75.7	7.7	4.35	18.11	3.40	0.98
HB 133	1.11	84.0	29.3	5.9	75.4	9.0	4.65	20.14	3.27	0.82
DELTAPINE 90	1.10	82.9	25.6	6.2	78.0	8.2	4.45	20.36	3.45	0.86
ACALA 1517-88	1.19	84.8	32.7	5.6	77.0	8.4	4.15	20.38	3.66	0.63
DPX 3818	1.11	84.0	28.4	5.0	78.1	8.3	4.85	20.08	3.63	0.79
GA 89-41	1.16	84.3	29.3	5.7	77.1	8.4	4.75	21.66	3.37	0.90
HB 147	1.08	83.7	31.4	6.0	75.6	8.8	4.85	19.90	3.44	0.74
AGC EX 2008	1.15	84.2	29.3	5.1	76.0	8.0	4.85	19.56	3.55	0.76

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DP 5409	423	35.0	1.86	79	55.11	5.03	2.8
SS 9202	400	24.5	1.65	87	51.65	4.99	3.1
CHEMBRED 407	424	29.8	1.75	83	51.89	4.74	2.9
AGC EX 2009	433	23.0	1.61	89	46.86	4.18	2.9
DELTAPINE 50	414	25.8	1.67	86	50.82	4.75	3.0
HB 92-44	395	16.5	1.47	94	46.68	4.57	3.3
GA 89-308	439	27.5	1.71	85	48.99	4.31	2.8
HB 91-SS109	450	30.0	1.76	83	49.18	4.22	2.7
SG X 87-75	454	33.0	1.82	81	50.29	4.28	2.6
STV X 76207	460	39.0	1.93	77	52.74	4.43	2.6
SG X 86-398	432	29.3	1.75	84	50.71	4.53	2.8

MD 14-24	470	36.5	1.88	78	50.43	4.15	2.5
PD 3-14	444	30.8	1.78	83	50.25	4.37	2.7
HB 133	435	32.3	1.80	81	52.09	4.63	2.8
DELTAPINE 90	434	34.5	1.85	80	53.45	4.75	2.8
ACALA 1517-88	462	31.5	1.79	82	48.69	4.07	2.6
DPX 3818	394	20.5	1.56	91	49.84	4.90	3.2
GA 89-41	411	23.5	1.62	88	49.51	4.65	3.0
HB 147	421	26.3	1.68	86	50.22	4.61	2.9
AGC EX 2008	420	27.5	1.71	85	51.10	4.70	2.9





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

JACKSON, TN

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
STV X 76207	1223	A	6.38	38.5	10.8	140	1.15	0.56	204	6.5	4.35
AGC EX 2009	1171	B A	6.20	36.3	11.3	155	1.19	0.59	220	5.6	4.60
DP 5409	1156	B A	5.18	38.2	10.1	137	1.17	0.57	204	7.0	4.60
DPX 3818	1134	B A C	5.44	37.5	10.3	151	1.15	0.57	218	5.9	4.95
GA 89-41	1134	B A C	5.90	36.2	11.2	159	1.17	0.58	228	6.6	4.15
PD 3-14	1134	B A C	5.83	37.0	11.1	161	1.19	0.59	224	6.4	4.40
DELTAPINE 50	1132	B A C	5.52	35.0	10.8	136	1.16	0.56	206	7.1	4.65
HB 133	1131	B A C	5.74	36.8	11.1	159	1.17	0.58	227	6.6	4.50
DELTAPINE 90	1119	B A C	5.40	37.8	10.1	146	1.15	0.57	224	6.3	4.90
SG X 87-75	1092	B A C	5.15	37.9	11.3	146	1.19	0.59	214	6.8	4.75
SS 9202	1083	B A C	5.49	36.4	10.5	148	1.15	0.57	214	5.9	4.40
CHEMBRED 407	1080	B A C	5.22	36.5	10.2	152	1.16	0.57	230	6.0	4.30
HB 92-44	1080	B A C	5.47	37.0	10.4	146	1.17	0.58	228	6.3	4.85
GA 89-308	1063	B A C	6.01	36.6	11.9	161	1.16	0.58	239	5.3	4.25
HB 91-SS109	1053	B A C	5.54	36.9	10.2	151	1.16	0.58	215	5.6	5.00
AGC EX 2008	1036	B A C	6.04	35.4	12.1	167	1.19	0.60	244	5.9	4.65
ACALA 1517-88	1024	B A C	5.17	35.1	11.1	172	1.23	0.60	268	5.0	4.05
SG X 86-398	1011	B C	5.47	37.0	10.3	146	1.13	0.57	215	6.0	4.55
HB 147	941	C	5.72	36.5	11.4	165	1.17	0.59	244	6.9	4.75
MD 14-24	941	C	4.99	35.5	10.2	145	1.15	0.58	221	7.6	4.65

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
STV X 76207	1.13	83.0	28.3	5.2	68.4	11	4.30	18.88	3.54	0.92
AGC EX 2009	1.19	85.5	31.3	5.0	69.0	12	4.60	20.36	3.28	0.77
DP 5409	1.16	84.4	27.4	5.7	69.9	12	4.80	19.72	3.31	0.88
DPX 3818	1.15	85.1	31.3	4.7	69.3	11	4.90	21.39	3.45	0.97
GA 89-41	1.19	85.3	30.2	5.1	69.1	11	4.15	21.41	3.23	0.87
PD 3-14	1.21	85.4	30.4	5.2	68.6	11	4.65	21.78	3.32	1.00
DELTAPINE 50	1.17	85.6	26.0	5.6	69.4	11	5.00	20.37	3.33	0.86
HB 133	1.18	86.2	31.9	5.6	67.2	11	4.65	20.69	3.26	0.89
DELTAPINE 90	1.14	84.9	30.2	4.8	69.2	11	5.00	20.99	3.44	0.69
SG X 87-75	1.20	85.7	29.6	5.5	68.0	11	4.95	22.31	3.68	0.90
SS 9202	1.16	84.2	29.3	5.0	69.1	12	4.95	21.13	3.44	0.81
CHEMBRED 407	1.17	85.0	30.8	4.9	69.5	12	4.50	20.38	3.28	0.85
HB 92-44	1.16	84.7	29.6	4.8	68.6	11	5.10	20.66	3.32	0.90
GA 89-308	1.14	85.3	31.5	4.6	68.4	11	4.50	20.85	3.34	0.87
HB 91-SS109	1.18	85.0	28.2	5.1	69.5	12	5.00	20.48	3.23	0.84
AGC EX 2008	1.16	84.6	33.3	5.2	68.5	11	4.80	20.54	3.52	0.71
ACALA 1517-88	1.22	85.8	33.5	5.3	68.9	11	4.20	20.79	3.44	0.68
SG X 86-398	1.14	84.6	28.9	5.7	68.2	11	4.70	21.55	3.22	0.80
HB 147	1.15	85.3	31.2	5.5	67.6	11	5.00	20.67	3.29	0.77
MD 14-24	1.14	85.7	27.9	6.4	68.5	11	4.95	19.44	3.41	0.89

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
STV X 76207	443	37.5	1.91	78	53.94	4.70	2.7
AGC EX 2009	434	31.0	1.78	82	51.56	4.59	2.8
DP 5409	414	29.0	1.74	84	52.91	4.94	2.9
DPX 3818	411	24.5	1.65	87	50.31	4.73	3.0
GA 89-41	455	34.0	1.84	80	50.73	4.31	2.6
PD 3-14	454	33.3	1.82	81	50.46	4.30	2.6
DELTAPINE 50	420	32.5	1.81	81	54.12	4.98	2.9
HB 133	418	27.3	1.70	85	51.17	4.73	2.9
DELTAPINE 90	392	19.3	1.53	92	49.14	4.84	3.2
SG X 87-75	416	31.0	1.78	82	53.70	4.98	2.9
SS 9202	437	34.5	1.85	80	53.02	4.69	2.7

CHEMBRED 407	432	33.0	1.82	81	52.88	4.73	2.8
HB 92-44	408	29.3	1.75	84	53.72	5.08	3.0
GA 89-308	445	29.5	1.75	84	49.13	4.26	2.7
HB 91-SS109	395	16.3	1.46	94	46.35	4.53	3.3
AGC EX 2008	416	25.8	1.67	86	50.53	4.69	3.0
ACALA 1517-88	472	33.3	1.82	81	48.53	3.97	2.5
SG X 86-398	419	28.0	1.72	85	51.60	4.76	2.9
HB 147	416	30.0	1.76	83	53.22	4.95	2.9
MD 14-24	403	24.0	1.64	88	50.98	4.88	3.1





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

TIFTON, GA

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
SG X 87-75	1375	A	4.64	42.8	9.6	.	.	.	.	.	.
GA 89-41	1292	B A	5.17	41.0	10.9	.	.	.	.	.	.
GA 89-308	1274	B A C	4.66	45.5	9.7	.	.	.	.	.	.
DP 5409	1269	B A C	4.34	41.4	9.1	.	.	.	.	.	.
PD 3-14	1237	B A C	5.22	40.3	9.9	.	.	.	.	.	.
DELTAPINE 90	1232	B A C	4.61	40.3	8.7	.	.	.	.	.	.
HB 91-SS109	1203	B A C	4.49	40.4	8.7	.	.	.	.	.	.
STV X 76207	1197	B A C	5.29	41.6	8.8	.	.	.	.	.	.
HB 147	1165	B A C	5.06	40.3	10.4	.	.	.	.	.	.
DELTAPINE 50	1151	B A C	5.13	38.7	10.4	.	.	.	.	.	.
DPX 3818	1151	B A C	4.28	40.2	8.7	.	.	.	.	.	.
SS 9202	1150	B A C	4.41	40.6	10.1	.	.	.	.	.	.
CHEMBRED 407	1143	B A C	4.57	39.7	9.3	.	.	.	.	.	.
HB 133	1107	B C	5.16	41.9	9.9	.	.	.	.	.	.
SG X 86-398	1092	B C	4.30	41.8	9.6	.	.	.	.	.	.
AGC EX 2009	1084	B C	5.26	38.3	10.6	.	.	.	.	.	.
MD 14-24	1050	B C	4.32	38.9	9.0	.	.	.	.	.	.
HB 92-44	1024	D C	4.54	38.1	8.9	.	.	.	.	.	.
ACALA 1517-88	813	E D	4.58	39.8	10.3	.	.	.	.	.	.
AGC EX 2008	761	E	5.06	39.2	10.9	.	.	.	.	.	.

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
SG X 87-75
GA 89-41
GA 89-308
DP 5409
PD 3-14
DELTAPINE 90
HB 91-SS109
STV X 76207
HB 147
DELTAPINE 50
DPX 3818
SS 9202
CHEMBRED 407
HB 133
SG X 86-398
AGC EX 2009
MD 14-24
HB 92-44
ACALA 1517-88
AGC EX 2008

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
SG X 87-75
GA 89-41
GA 89-308
DP 5409
PD 3-14
DELTAPINE 90
HB 91-SS109
STV X 76207
HB 147
DELTAPINE 50
DPX 3818

SS 9202	.	.	.	.	.	.	.	.
CHEMBRED 407	.	.	.	.	.	.	.	.
HB 133	.	.	.	.	.	.	.	.
SG X 86-398	.	.	.	.	.	.	.	.
AGC EX 2009	.	.	.	.	.	.	.	.
MD 14-24	.	.	.	.	.	.	.	.
HB 92-44	.	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.	.
AGC EX 2008	.	.	.	.	.	.	.	.





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

FLORENCE, SC

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
DPX 3818	999	A	4.65	41.4	9.6	144	1.09	0.56	221	8.1	5.10
HB 91-SS109	978	A	4.77	39.5	9.3	139	1.12	0.56	212	7.1	5.15
HB 92-44	957	B A	4.67	38.9	9.1	132	1.12	0.56	208	8.0	5.30
PD 3-14	944	B A	5.03	40.1	10.5	142	1.11	0.57	216	7.4	5.05
SG X 87-75	934	B A C	4.39	41.4	11.0	138	1.14	0.59	207	7.8	5.30
MD 14-24	930	B A C	4.44	39.6	9.7	134	1.10	0.57	216	9.3	5.55
HB 147	918	DB A C	5.34	40.0	10.7	145	1.08	0.56	235	8.3	5.20
DELTAPINE 50	910	DB A C	4.96	38.1	10.5	124	1.10	0.55	192	9.0	5.30
CHEMBRED 407	903	DB A C	4.86	40.5	9.5	136	1.06	0.53	212	7.6	5.20
STV X 76207	898	DB A C	5.42	42.3	11.1	132	1.12	0.57	211	8.6	5.10
AGC EX 2009	893	DB A C	5.77	39.1	11.9	142	1.10	0.55	212	7.9	5.10
GA 89-41	889	DB A C	5.53	39.7	10.4	135	1.09	0.57	211	8.1	4.80
DP 5409	873	DB A C	4.45	42.5	9.3	122	1.08	0.55	193	8.9	5.35
HB 133	868	DB A C	4.82	41.0	10.3	137	1.09	0.57	216	7.8	5.20
DELTAPINE 90	853	DB A C	4.60	40.4	9.8	140	1.06	0.53	206	8.1	5.30
SS 9202	807	DB C	4.71	39.6	9.8	140	1.10	0.56	209	8.0	5.10
SG X 86-398	786	D E C	4.60	40.4	10.5	133	1.07	0.55	206	8.0	5.55
AGC EX 2008	768	DF E	5.43	38.9	11.5	155	1.10	0.56	239	7.9	4.95
GA 89-308	657	F E	5.34	41.0	11.5	145	1.08	0.56	223	7.1	4.95
ACALA 1517-88	645	F	4.89	38.7	11.1	153	1.14	0.56	230	7.3	4.75

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
DPX 3818	1.10	83.4	33.5	10.0	69.7	8.0	5.00	21.78	3.82	0.89
HB 91-SS109	1.12	82.7	31.1	10.0	70.1	8.1	5.10	21.42	3.83	0.80
HB 92-44	1.11	82.8	31.4	10.0	69.6	8.6	5.30	19.87	3.46	0.84
PD 3-14	1.11	83.3	32.2	10.0	68.9	8.4	4.95	22.03	4.00	0.87
SG X 87-75	1.13	83.2	32.0	10.0	68.6	8.7	5.40	21.56	4.35	0.76
MD 14-24	1.09	84.1	30.7	10.5	67.1	8.5	5.40	19.98	3.84	0.83
HB 147	1.09	83.4	33.8	10.0	67.8	9.0	5.05	21.04	3.94	0.68
DELTAPINE 50	1.12	84.4	27.6	10.0	70.5	8.3	5.35	20.06	3.81	0.68
CHEMBRED 407	1.09	82.8	31.2	10.0	70.3	8.2	5.25	21.22	3.91	0.75
STV X 76207	1.09	82.8	31.0	10.0	68.9	8.8	5.15	18.53	3.92	0.75
AGC EX 2009	1.13	84.1	32.0	10.0	69.6	8.1	5.20	20.03	3.84	0.69
GA 89-41	1.09	82.7	30.7	10.0	68.5	8.6	4.90	20.98	3.88	0.73
DP 5409	1.09	82.4	29.4	10.0	68.9	7.9	5.20	20.15	3.90	0.75
HB 133	1.07	83.6	33.0	10.0	67.3	8.9	5.30	21.97	3.84	0.78
DELTAPINE 90	1.08	83.0	33.5	10.0	70.4	8.7	5.30	21.03	3.82	0.69
SS 9202	1.09	83.0	32.0	10.0	69.7	8.2	5.20	21.44	3.80	0.73
SG X 86-398	1.08	82.7	31.5	10.0	66.9	8.4	5.40	22.14	4.20	0.76
AGC EX 2008	1.10	83.1	36.3	10.5	70.8	8.5	5.10	20.28	3.91	0.65
GA 89-308	1.07	82.5	33.2	9.9	68.7	8.3	5.15	20.38	3.82	0.78
ACALA 1517-88	1.13	83.1	33.9	9.9	68.8	8.5	4.65	21.28	4.03	0.55

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
DPX 3818	394	24.5	1.64	87	52.38	5.13	3.1
HB 91-SS109	387	18.5	1.52	92	49.20	4.91	3.3
HB 92-44	395	21.5	1.58	90	50.42	4.94	3.2
PD 3-14	406	23.3	1.62	88	50.10	4.77	3.1
SG X 87-75	401	27.5	1.71	85	53.56	5.16	3.0
MD 14-24	380	21.5	1.58	90	52.32	5.32	3.3
HB 147	406	26.5	1.69	86	52.25	4.97	3.0
DELTAPINE 50	383	22.5	1.60	89	52.65	5.31	3.2
CHEMBRED 407	393	24.3	1.64	88	52.47	5.16	3.1
STV X 76207	393	25.8	1.67	86	53.50	5.27	3.1
AGC EX 2009	380	18.5	1.52	92	50.08	5.09	3.3

GA 89-41	417	29.3	1.75	84	52.57	4.87	2.9
DP 5409	399	29.0	1.74	84	54.77	5.30	3.0
HB 133	377	18.3	1.51	93	50.25	5.14	3.4
DELTAPINE 90	391	24.0	1.64	88	52.61	5.20	3.2
SS 9202	405	25.8	1.67	86	51.88	4.95	3.0
SG X 86-398	377	26.3	1.68	86	55.92	5.72	3.3
AGC EX 2008	392	17.8	1.50	93	48.00	4.73	3.3
GA 89-308	403	24.8	1.65	87	51.54	4.94	3.1
ACALA 1517-88	402	17.5	1.49	93	46.47	4.46	3.2





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

ROCKY MOUNT, NC

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
HB 91-SS109	1336	A	5.23	46.3	10.0	.	.	.	.	.	.
CHEMBRED 407	1311	A	5.51	46.6	11.5	.	.	.	.	.	.
SS 9202	1305	B A	5.42	45.2	9.0	.	.	.	.	.	.
HB 133	1295	B A	5.63	44.8	13.0	.	.	.	.	.	.
DELTAPINE 50	1288	B A	5.93	45.2	12.0	.	.	.	.	.	.
DPX 3818	1280	B A	5.59	46.6	10.5	.	.	.	.	.	.
HB 92-44	1255	B A C	5.59	45.9	11.5	.	.	.	.	.	.
PD 3-14	1225	DB A C	4.73	44.0	12.5	.	.	.	.	.	.
SG X 87-75	1206	DBEA C	5.06	44.8	11.5	.	.	.	.	.	.
AGC EX 2009	1169	DBEF C	7.03	43.5	14.0	.	.	.	.	.	.
DP 5409	1140	DGEF C	5.11	46.6	11.5	.	.	.	.	.	.
STV X 76207	1112	DGEF H	5.98	45.7	11.5	.	.	.	.	.	.
SG X 86-398	1107	DGEF H	5.10	45.3	9.5	.	.	.	.	.	.
AGC EX 2008	1103	DGEF H	6.45	42.6	13.0	.	.	.	.	.	.
MD 14-24	1084	GEF H	5.75	43.7	13.0	.	.	.	.	.	.
GA 89-41	1037	IG F H	6.37	44.6	10.0	.	.	.	.	.	.
DELTAPINE 90	1027	IG H	6.06	41.3	11.0	.	.	.	.	.	.
HB 147	1023	IG H	6.32	42.8	13.5	.	.	.	.	.	.
GA 89-308	986	I H	6.26	43.9	14.5	.	.	.	.	.	.
ACALA 1517-88	926	I	5.31	44.1	13.0	.	.	.	.	.	.

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
HB 91-SS109
CHEMBRED 407
SS 9202
HB 133
DELTAPINE 50
DPX 3818
HB 92-44
PD 3-14
SG X 87-75
AGC EX 2009
DP 5409
STV X 76207
SG X 86-398
AGC EX 2008
MD 14-24
GA 89-41
DELTAPINE 90
HB 147
GA 89-308
ACALA 1517-88

Arealometer Data

VARIETY	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
HB 91-SS109
CHEMBRED 407
SS 9202
HB 133
DELTAPINE 50
DPX 3818
HB 92-44
PD 3-14
SG X 87-75
AGC EX 2009
DP 5409

STV X 76207	.	.	.	.	.	.	.	.
SG X 86-398	.	.	.	.	.	.	.	.
AGC EX 2008	.	.	.	.	.	.	.	.
MD 14-24	.	.	.	.	.	.	.	.
GA 89-41	.	.	.	.	.	.	.	.
DELTAPINE 90	.	.	.	.	.	.	.	.
HB 147	.	.	.	.	.	.	.	.
GA 89-308	.	.	.	.	.	.	.	.
ACALA 1517-88	.	.	.	.	.	.	.	.





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

PORTAGEVILLE, MO

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
					TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
STV X 76207	775	A .	.	12.3	141	1.15	0.59	233	7.1	4.20
SG X 86-398	731	B A .	.	12.8	143	1.16	0.59	233	6.5	4.50
SG X 87-75	699	B A C .	.	12.7	148	1.21	0.61	238	6.4	4.05
HB 133	675	B A C .	.	11.9	148	1.17	0.59	245	6.3	4.50
PD 3-14	673	B A C .	.	11.8	156	1.20	0.59	262	6.5	4.25
AGC EX 2009	672	B A C .	.	13.7	148	1.18	0.60	235	6.0	4.65
MD 14-24	668	B A C .	.	10.8	149	1.17	0.58	244	6.8	4.70
AGC EX 2008	655	DB A C .	.	13.6	151	1.20	0.61	245	5.9	4.65
HB 92-44	653	DB A C .	.	10.9	132	1.19	0.59	240	6.0	5.00
HB 147	649	DB A C .	.	12.5	154	1.13	0.58	253	7.1	5.00
DELTAPINE 90	637	DB A C .	.	11.1	141	1.17	0.58	226	6.9	4.65
DELTAPINE 50	633	DB A C .	.	10.9	123	1.15	0.57	199	7.6	4.35
CHEMBRED 407	632	DB A C .	.	11.4	141	1.17	0.58	225	5.3	4.75
HB 91-SS109	632	DB A C .	.	11.1	143	1.21	0.61	234	5.8	4.60
DP 5409	623	DB C .	.	11.1	131	1.17	0.57	208	6.6	4.75
ACALA 1517-88	618	DB C .	.	11.8	164	1.21	0.60	255	5.6	4.20
GA 89-308	612	DB C .	.	13.7	163	1.15	0.59	245	5.1	4.75
SS 9202	577	D C .	.	13.0	140	1.15	0.58	233	6.9	4.65
GA 89-41	567	D C .	.	12.4	146	1.17	0.60	242	6.4	4.50
DPX 3818	520	D .	.	11.1	133	1.17	0.58	215	6.4	4.85

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
STV X 76207	1.16	85.2	30.0	5.8	69.9	7.4	4.15	17.76	3.26	0.84
SG X 86-398	1.15	85.0	29.7	5.7	66.6	6.6	4.55	20.21	3.56	0.68
SG X 87-75	1.20	85.6	32.1	6.0	67.5	6.9	4.15	19.78	3.46	0.73
HB 133	1.16	86.3	31.5	5.7	68.0	7.2	4.55	19.50	3.41	0.73
PD 3-14	1.19	85.9	31.9	5.7	68.2	7.1	4.30	20.47	3.43	0.85
AGC EX 2009	1.20	86.0	31.7	5.5	70.0	6.6	4.60	19.44	3.31	0.64
MD 14-24	1.15	86.9	30.1	6.1	67.4	7.3	4.65	18.16	3.13	0.86
AGC EX 2008	1.18	86.2	32.5	5.2	68.4	6.6	4.60	18.97	3.37	0.66
HB 92-44	1.17	84.9	30.7	5.2	70.3	7.2	5.00	18.48	3.19	0.81
HB 147	1.14	86.1	32.9	5.8	68.6	7.7	5.05	20.01	3.27	0.76
DELTAPINE 90	1.15	84.7	29.8	5.5	69.9	6.8	4.60	20.00	3.35	0.77
DELTAPINE 50	1.15	84.7	26.8	6.1	69.9	7.0	4.45	18.99	3.23	0.67
CHEMBRED 407	1.16	85.3	30.6	5.3	70.4	7.3	4.75	19.93	3.34	0.77
HB 91-SS109	1.18	85.9	31.2	5.4	70.4	6.6	4.60	19.49	3.20	0.79
DP 5409	1.16	85.8	27.6	6.2	69.3	6.9	4.65	18.65	3.41	0.71
ACALA 1517-88	1.23	85.7	35.4	5.8	69.6	7.0	4.05	19.94	3.61	0.53
GA 89-308	1.16	86.6	31.6	5.2	69.5	7.2	4.90	18.94	3.46	0.73
SS 9202	1.16	85.9	29.7	5.4	70.1	7.1	4.70	20.04	3.33	0.76
GA 89-41	1.16	85.9	31.8	5.6	67.9	7.1	4.40	20.13	3.37	0.75
DPX 3818	1.15	84.8	29.4	4.9	70.0	7.1	4.95	20.46	3.29	0.84

Arealometer Data

VARIETY	A	D	I	M	p	w	t
	(mm ² /mm ³)	(mm ² /mm ³)		(%)	(microns)	(mg/inch)	(microns)
STV X 76207	461	39.8	1.95	76	52.92	4.44	2.6
SG X 86-398	431	35.0	1.86	79	54.12	4.85	2.8
SG X 87-75	461	40.0	1.95	76	53.09	4.45	2.6
HB 133	432	36.0	1.88	79	54.60	4.89	2.8
PD 3-14	453	39.0	1.93	77	53.55	4.57	2.6
AGC EX 2009	433	33.0	1.82	81	52.79	4.71	2.8
MD 14-24	431	33.0	1.82	81	53.00	4.75	2.8
AGC EX 2008	424	30.5	1.77	83	52.46	4.78	2.9
HB 92-44	405	24.8	1.65	87	51.13	4.87	3.0
HB 147	405	29.0	1.74	84	54.05	5.16	3.0
DELTAPINE 90	423	29.8	1.76	83	52.16	4.76	2.9

DELTAPINE 50	445	38.5	1.92	77	54.23	4.71	2.7
CHEMBRED 407	425	31.8	1.80	82	53.15	4.84	2.8
HB 91-SS109	433	27.3	1.71	85	49.45	4.41	2.8
DP 5409	425	35.3	1.86	79	55.09	5.01	2.8
ACALA 1517-88	462	34.8	1.85	80	50.41	4.22	2.6
GA 89-308	415	28.0	1.72	85	52.11	4.85	2.9
SS 9202	433	38.3	1.91	77	55.40	4.95	2.8
GA 89-41	440	30.5	1.77	83	50.51	4.43	2.7
DPX 3818	406	29.0	1.74	84	53.87	5.12	3.0





1993 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

BELLE MINA, AL

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
HB 92-44	800	A	4.88	41.4	9.5	124	1.10	0.53	220	5.9	5.45
DPX 3818	792	A	5.19	39.3	9.5	132	1.13	0.54	221	5.9	5.35
CHEMBRED 407	791	A	5.56	40.1	10.5	127	1.11	0.54	222	6.0	5.35
DELTAPINE 50	787	B A	5.12	40.5	10.2	114	1.10	0.52	192	8.0	4.60
SS 9202	782	B A C	5.33	40.8	9.7	129	1.10	0.54	213	5.9	5.30
DELTAPINE 90	770	DB A C	5.18	39.8	10.2	131	1.13	0.55	225	5.9	5.30
HB 133	763	DB A C	5.16	41.0	10.7	145	1.11	0.54	229	6.3	5.05
HB 91-SS109	754	DBEA C	5.51	40.5	9.4	127	1.12	0.54	211	5.5	5.25
PD 3-14	744	DBEAFC	5.47	40.6	10.5	151	1.11	0.53	241	5.5	4.85
STV X 76207	727	DBEAFC	5.35	43.6	10.4	138	1.11	0.55	204	5.8	5.10
DP 5409	706	GDBEAFC	5.05	41.2	9.4	119	1.12	0.54	219	7.0	5.20
SG X 87-75	704	GDBEAFC	5.04	41.7	10.3	138	1.18	0.58	224	6.1	4.85
AGC EX 2009	683	GDBE FC	6.71	38.2	11.9	138	1.13	0.55	221	6.0	5.05
HB 147	679	GD E FC	6.13	40.3	10.4	150	1.12	0.57	241	6.4	5.30
MD 14-24	675	GD E F	4.18	40.3	9.2	134	1.11	0.56	222	6.9	5.25
GA 89-308	654	G E F	5.07	39.8	11.0	145	1.12	0.55	228	5.8	4.75
SG X 86-398	650	G E F	4.54	41.1	9.8	130	1.11	0.54	216	6.0	5.15
GA 89-41	647	G F	5.74	38.7	10.3	133	1.11	0.54	217	6.6	4.95
AGC EX 2008	612	G	4.90	40.2	10.3	159	1.16	0.56	245	6.3	4.95
ACALA 1517-88	519	H	4.65	41.1	9.8	146	1.17	0.55	244	6.6	4.55

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd	Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
HB 92-44	1.10	82.1	27.6	5.5	66.9	7.8	5.70	19.01	3.71	0.87
DPX 3818	1.10	82.3	27.2	5.2	67.0	8.2	5.30	20.91	3.79	0.96
CHEMBRED 407	1.09	82.3	28.0	5.2	67.9	8.1	5.35	19.52	3.81	0.90
DELTAPINE 50	1.09	84.1	24.9	6.7	66.4	8.0	4.95	18.82	3.65	0.73
SS 9202	1.06	82.0	27.2	5.4	65.3	8.6	5.35	19.89	3.80	0.81
DELTAPINE 90	1.07	82.2	26.5	5.3	64.8	8.5	5.30	19.56	3.78	0.92
HB 133	1.09	83.4	27.6	5.4	67.0	8.9	5.30	20.05	3.78	0.84
HB 91-SS109	1.11	81.8	26.6	5.1	66.4	8.2	5.20	19.89	3.79	0.85
PD 3-14	1.12	82.7	28.6	5.5	64.8	8.0	4.65	19.61	3.79	0.78
STV X 76207	1.09	82.3	27.5	5.4	65.6	8.3	4.90	17.20	3.68	0.70
DP 5409	1.10	82.9	27.0	5.9	65.4	8.6	5.15	16.93	3.70	0.66
SG X 87-75	1.14	83.4	30.1	6.2	61.9	8.0	4.80	19.87	3.92	0.80
AGC EX 2009	1.12	82.6	28.3	5.3	64.2	8.1	5.05	18.41	3.81	0.67
HB 147	1.12	83.3	30.5	5.8	66.1	9.0	5.40	18.94	3.81	0.63
MD 14-24	1.10	83.9	27.2	6.7	63.2	8.6	5.00	18.14	3.76	0.84
GA 89-308	1.10	83.4	30.6	5.7	65.2	8.6	4.45	19.24	3.74	0.81
SG X 86-398	1.10	84.1	28.2	6.4	62.1	7.8	4.80	20.99	3.85	0.78
GA 89-41	1.12	82.4	27.9	5.8	65.4	8.3	4.85	19.49	3.75	0.84
AGC EX 2008	1.10	83.2	32.4	6.1	64.8	8.1	4.65	18.67	3.73	0.61
ACALA 1517-88	1.11	81.8	29.6	5.3	66.1	8.5	4.65	19.33	3.84	0.61

Arealometer Data

VARIETY	A (mm ² /mm ³)	D (mm ² /mm ³)	I	M (%)	p (microns)	w (mg/inch)	t (microns)
HB 92-44	358	16.8	1.47	94	51.61	5.56	3.6
DPX 3818	368	18.8	1.52	92	52.01	5.48	3.4
CHEMBRED 407	381	21.3	1.58	90	52.05	5.28	3.3
DELTAPINE 50	410	28.8	1.73	84	53.18	5.02	3.0
SS 9202	391	22.5	1.60	89	51.58	5.11	3.2
DELTAPINE 90	388	22.3	1.60	89	51.74	5.14	3.2
HB 133	392	22.0	1.60	89	51.15	5.04	3.2
HB 91-SS109	378	17.0	1.48	94	49.21	5.03	3.4
PD 3-14	411	26.0	1.68	86	51.25	4.81	3.0
STV X 76207	389	20.5	1.56	91	50.42	5.02	3.2
DP 5409	400	29.0	1.74	84	54.66	5.28	3.0

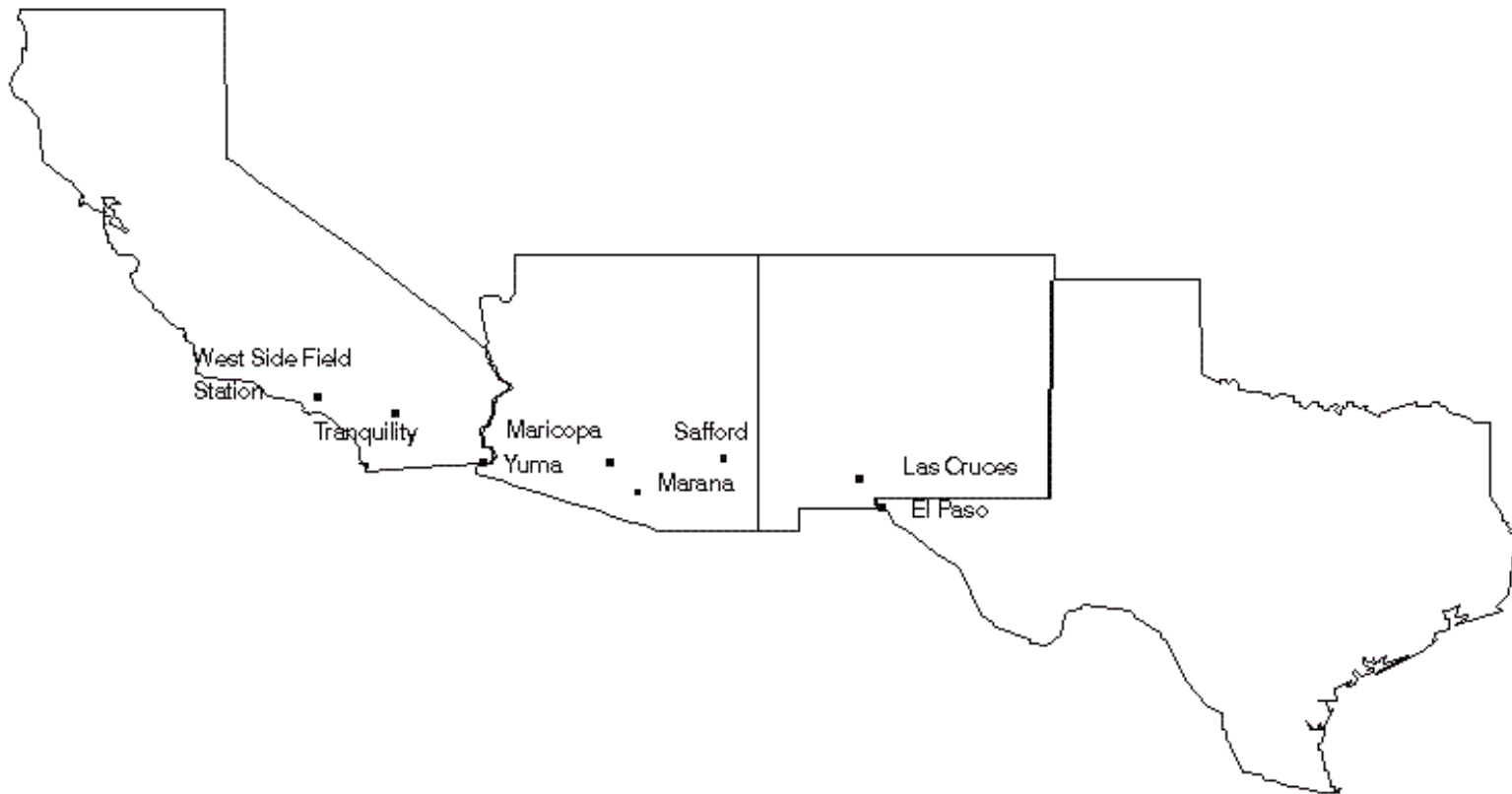
SG X 87-75	407	27.8	1.72	85	52.86	5.01	3.0
AGC EX 2009	390	24.5	1.64	88	52.88	5.24	3.2
HB 147	381	19.8	1.54	91	50.97	5.17	3.3
MD 14-24	394	18.3	1.51	93	48.09	4.71	3.2
GA 89-308	433	28.5	1.73	84	50.26	4.49	2.8
SG X 86-398	404	22.5	1.60	89	49.73	4.75	3.1
GA 89-41	411	25.8	1.67	86	51.10	4.80	3.0
AGC EX 2008	428	26.3	1.68	86	49.42	4.46	2.9
ACALA 1517-88	407	19.5	1.54	92	47.45	4.51	3.1



Pima Region Test Results

Cooperators

Richard Percy, Chaiman





1993 PIMA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
P77	1066	A	3.13	37.4	12.6	193	1.36	0.61	311	7.4	4.39
P76	1061	A	3.34	38.8	13.4	195	1.40	0.62	323	6.9	4.35
P73	1045	A	2.87	37.3	12.2	211	1.38	0.61	339	6.6	4.24
PIMA S-7	1037	A	3.29	38.9	12.4	192	1.38	0.61	317	6.5	4.48
P75	1000	A	3.26	37.9	12.7	191	1.38	0.61	314	6.7	4.43
PIMA S-6	951	A	3.19	39.9	13.0	185	1.36	0.60	303	6.9	4.43

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter		MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)
					Rd	Hunter's b				
P77	1.32	86.2	41.4	7.1	67.4	12	4.24	22.90	3.74	0.97
P76	1.36	86.7	44.6	6.6	68.8	11	4.23	24.15	3.55	0.83
P73	1.35	87.0	44.4	6.8	71.1	11	4.12	24.66	3.70	0.88
PIMA S-7	1.35	86.6	41.0	6.4	69.4	11	4.37	23.86	3.74	0.81
P75	1.35	86.6	40.2	6.8	68.9	11	4.26	24.41	3.75	0.88
PIMA S-6	1.34	86.3	40.6	6.6	68.7	11	4.28	23.58	3.75	0.82





1993 PIMA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

VARIETIES COMBINING LOCATIONS, MEAN COMPARISONS

BOLL SIZE, GRAM PER BOLL PERCENT				SEED INDEX		LINT	
P76		3.34	A	PIMA S-6		39.9	
A	P76		13.4	A			
PIMA S-7		3.29	B A	PIMA S-7		38.9	
B	PIMA S-6		13.0	B A			
P75		3.26	B A	P76		38.8	
B	P75		12.7	B C			
PIMA S-6		3.19	B A	P75		37.9	
C	P77		12.6	D C			
P77		3.13	B	P77		37.4	
C	PIMA S-7		12.4	D C			
P73		2.87	C	P73		37.3	
C	P73		12.2	D			

YARN TENACITY				FIBROGRAPH--2.5% S.			
L.		FIBROGRAPH--50% S.		L.			
P73		211	A	P76		1.40	
A	P76		0.62	A			
P76		195	B	P73		1.38	
B	PIMA S-7		0.61	B A			
P77		193	B	PIMA S-7		1.38	C
B	P73		0.61	B A			

1993 PIMA REGIONAL COTTON VARIETY TEST, REGIONAL SUMMARY

PIMA S-7		192	B	P75	1.38	C
B	P75		0.61	B A		
P75		191	B	P77	1.36	C
B	P77		0.61	B A		
PIMA S-6		185	B	PIMA S-6	1.36	
C	PIMA S-6		0.60	B		

STELOMETER - T1

STELOMETER -

E1			MICRONAIRE			
P73		339	A	P77	7.4	
A	PIMA S-7		4.48	A		
P76		323	B	PIMA S-6	6.9	
B	PIMA S-6		4.43	A		
PIMA S-7		317	C B	P76	6.9	
B	P75		4.43	A		
P75		314	C B	P75	6.7	C
B	P77		4.39	A		
P77		311	C B	P73	6.6	C
B	P76		4.35	B A		
PIMA S-6		303	C	PIMA S-7	6.5	
C	P73		4.24	B		

2.5% S.L. (INCHES)
(PERCENT)

UR
STRENGTH (G/TEX)

P76		1.36	A	P73	87.0
A	P76		44.6	A	
PIMA S-7		1.35	B A	P76	86.7
A	P73		44.4	A	
P75		1.35	B A	P75	86.6
A	P77		41.4	B	
P73		1.35	B	PIMA S-7	86.6
A	PIMA S-7		41.0	B	
PIMA S-6		1.34	B C	PIMA S-6	86.3
A	PIMA S-6		40.6	B	

P77		1.32	C	P77	86.2
A	P75		40.2	B	

 E
 Rd COLORIMETER - b

P77		7.1	A	P73	71.1
A	P77		12	A	
P73		6.8	B	PIMA S-7	69.4
B	PIMA S-6		11	B A	
P75		6.8	B	P75	68.9
B	P75		11	B A C	
PIMA S-6		6.6	C B	P76	68.8
B	PIMA S-7		11	B D C	
P76		6.6	C B	PIMA S-6	68.7
B	P73		11	D C	
PIMA S-7		6.4	C	P77	67.4
C	P76		11	D	

 MICRONAIRE (SL-HVI)
 (PERCENT)

 OIL
 NITROGEN (PERCENT)

PIMA S-7		4.37	A	P73	24.66
A	PIMA S-6		3.75	A	
PIMA S-6		4.28	A	P75	24.41
A	P75		3.75	A	B
P75		4.26	A	P76	24.15
A	PIMA S-7		3.74	A	B
P77		4.24	B A	PIMA S-7	23.86
A	P77		3.74	A	
P76		4.23	B A	PIMA S-6	23.58
C	P73		3.70	A	B
P73		4.12	B	P77	22.90
C	P76		3.55	B	

FREE GOSSYPOL (PERCENT)

P77	0.97	A
P73	0.88	B A
P75	0.88	B A
P76	0.83	B
PIMA S-6	0.82	B
PIMA S-7	0.81	B





1993 PIMA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
TRANQUILITY, CA	1441	A	3.63	39.9	13.4	194	1.37	0.60	327	6.9	4.38
LAS CRUCES, NM	1261	B	3.39	38.7	12.8	.	.	.	.	.	.
YUMA, AZ	1237	B	3.09	36.0	12.5	177	1.32	0.56	307	6.5	4.21
EL PASO, TX	979	C	3.38	39.8	12.3	201	1.40	0.63	310	7.0	4.28
MARICOPA, AZ	958	D C	3.24	38.5	12.2	192	1.35	0.60	321	6.6	4.63
MARANA, AZ	831	D	3.35	36.5	13.9	199	1.43	0.63	322	7.3	4.38
W SIDE FIELD STATION, CA	822	D	2.41	40.1	11.6	.	.	.	.	.	.
SAFFORD, AZ	610	E	2.94	37.4	13.0	204	1.39	0.63	320	6.8	4.44

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

LOCATION	2.5% S.L. (inches)	UNIFORM- ITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
TRANQUILITY, CA	1.34	85.8	43.2	6.6	68.9	11	4.18	24.30	3.53	1.01
LAS CRUCES, NM	.	.	.	.	.	.	.	.	.	.
YUMA, AZ	1.31	84.4	40.5	6.3	70.9	11	4.09	24.13	3.62	0.85
EL PASO, TX	1.36	87.3	41.3	6.9	68.7	11	4.21	26.19	3.20	1.01
MARICOPA, AZ	1.34	86.7	41.3	6.4	69.5	11	4.47	23.84	3.83	0.75
MARANA, AZ	1.38	87.7	42.3	7.0	68.9	11	4.32	22.80	3.97	0.81

W SIDE FIELD STATION, CA
SAFFORD, AZ

.
1.35	87.6	43.5	7.1	67.3	11	4.23	22.30	4.08	0.75





1993 PIMA REGIONAL COTTON VARIETY TEST

REGIONAL SUMMARY COMBINING MARANA, AZ; MARICOPA, AZ; TRANQUILITY, CA; W SIDE FIELD STATION, CA; YUMA, AZ

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
PIMA S-7	1153	A	3.26	38.6	12.4	192	1.37	0.60	323	6.3	4.48
P77	1118	B A	3.07	37.1	12.4	192	1.34	0.60	314	7.4	4.40
P73	1112	B A	2.85	37.1	12.1	206	1.37	0.60	338	6.5	4.28
P76	1083	B A C	3.29	38.5	13.5	191	1.40	0.61	328	6.9	4.33
P75	978	B C	3.29	38.4	13.0	184	1.37	0.59	310	6.7	4.49
PIMA S-6	959	C	3.11	39.4	13.0	180	1.35	0.59	303	7.0	4.44

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
PIMA S-7	1.35	86.5	41.2	6.2	70.2	11	4.36	23.92	3.77	0.84
P77	1.32	85.7	41.3	6.8	67.6	12	4.26	22.59	3.76	0.95
P73	1.34	86.5	44.0	6.7	71.6	11	4.10	24.71	3.70	0.87
P76	1.36	86.4	45.0	6.5	69.6	10	4.23	24.06	3.63	0.81
P75	1.34	85.9	39.4	6.6	69.3	11	4.33	23.83	3.78	0.82
PIMA S-6	1.33	85.9	40.2	6.5	69.2	11	4.31	23.49	3.78	0.84





1993 PIMA REGIONAL COTTON VARIETY TEST

SUBREGIONAL SUMMARY COMBINING EL PASO, TX; LAS CRUCES, NM; SAFFORD, AZ

VARIETIES COMBINING LOCATIONS

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
P75	1036	A	3.20	37.0	12.1	205	1.41	0.64	322	6.6	4.33
P76	1021	A	3.42	39.3	13.3	202	1.41	0.64	314	7.0	4.40
P77	972	B A	3.24	37.8	12.9	196	1.40	0.63	306	7.3	4.38
P73	956	B A	2.91	37.6	12.5	223	1.41	0.63	340	6.9	4.18
PIMA S-6	938	B A	3.31	40.7	13.1	197	1.38	0.61	303	6.8	4.43
PIMA S-7	843	B	3.35	39.3	12.4	194	1.38	0.62	305	6.9	4.48

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
P75	1.38	88.0	42.0	7.0	68.1	12	4.13	25.56	3.70	0.98
P76	1.37	87.5	43.8	6.8	67.2	11	4.25	24.34	3.38	0.87
P77	1.34	87.3	41.6	7.7	66.9	12	4.20	23.53	3.72	1.01
P73	1.36	88.0	45.2	7.1	70.1	11	4.15	24.55	3.69	0.89
PIMA S-6	1.35	87.3	41.4	6.9	67.7	12	4.20	23.77	3.69	0.78
PIMA S-7	1.35	86.7	40.5	6.8	68.0	12	4.38	23.74	3.67	0.74





1993 PIMA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

YUMA, AZ

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
PIMA S-7	1509	A	3.33	37.1	12.3	178	1.32	0.58	307	5.8	4.20
P73	1361	B	2.71	36.1	11.8	184	1.30	0.55	313	6.0	4.05
P76	1240	B	3.22	36.3	14.0	174	1.34	0.55	314	6.8	4.30
P77	1234	B	3.14	35.3	12.5	179	1.30	0.58	317	7.0	4.25
P75	1086	C	3.05	34.1	12.0	179	1.32	0.57	311	6.8	4.25
PIMA S-6	995	C	3.11	37.5	12.8	171	1.33	0.56	283	6.5	4.20

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
PIMA S-7	1.33	85.2	39.3	6.0	71.7	10	4.10	24.08	3.61	0.81
P73	1.29	84.6	40.2	6.6	73.3	11	4.00	25.26	3.58	0.92
P76	1.34	84.9	44.8	6.4	70.2	10	4.05	24.68	3.60	0.80
P77	1.30	84.3	40.3	6.5	68.6	11	4.15	22.72	3.68	0.89
P75	1.32	84.0	39.4	6.2	72.5	11	4.05	25.11	3.56	0.91
PIMA S-6	1.31	83.3	39.2	6.1	69.6	11	4.20	22.92	3.68	0.77





1993 PIMA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

MARANA, AZ

VARIETY	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/tex)	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)	
						2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)		
P77	885	A	3.28	35.0	13.8	196	1.41	0.64	304	7.8	4.40
P75	844	A	3.41	37.2	14.4	187	1.42	0.63	298	7.0	4.50
P76	844	A	3.25	37.3	14.4	202	1.45	0.65	339	7.4	4.30
PIMA S-7	818	A	3.54	36.3	13.9	203	1.44	0.63	337	6.8	4.45
PIMA S-6	763	A	3.34	37.8	14.2	181	1.41	0.60	311	7.8	4.35
P73	.		3.28	35.3	13.1	225	1.45	0.64	343	7.0	4.30

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE	
									GOSSYPOL (%)	
P77	1.36	87.2	41.0	7.2	67.5	11	4.40	21.51	4.04	0.87
P75	1.38	87.4	39.0	6.9	67.7	11	4.45	23.14	4.02	0.79
P76	1.41	89.2	47.0	7.1	69.8	10	4.25	23.35	3.80	0.78
PIMA S-7	1.39	87.4	40.9	6.7	69.9	10	4.40	23.37	4.04	0.82
PIMA S-6	1.38	87.3	40.6	7.1	68.1	11	4.30	22.47	3.97	0.79
P73	1.38	87.7	45.7	7.2	70.6	10	4.10	22.95	3.96	0.78





1993 PIMA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

EL PASO, TX

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE (Reading)
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	
P75	1116	A	3.27	37.7	12.0	204	1.40	0.63	325	6.6	4.25
P76	1060	A	3.79	40.4	13.2	199	1.43	0.65	310	7.5	4.45
P73	1047	A	3.01	38.9	12.1	218	1.41	0.62	339	6.8	4.05
PIMA S-6	959	B A	3.59	42.0	12.8	207	1.39	0.61	299	6.6	4.25
P77	866	B	3.14	39.1	12.2	200	1.41	0.64	302	7.3	4.25
PIMA S-7	830	B	3.50	40.7	11.8	182	1.38	0.63	284	7.3	4.45

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
P75	1.37	86.9	41.5	7.0	68.0	12	4.00	27.65	3.21	1.15
P76	1.37	87.2	41.7	6.7	68.2	11	4.40	26.82	3.03	1.04
P73	1.36	87.5	43.7	7.0	69.7	11	4.15	26.30	3.23	1.03
PIMA S-6	1.37	88.0	42.1	6.4	69.7	12	4.15	25.79	3.27	0.89
P77	1.34	87.6	41.8	7.6	68.0	12	4.10	25.41	3.27	1.14
PIMA S-7	1.35	86.7	37.3	6.9	68.8	12	4.45	25.19	3.22	0.80









1993 PIMA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

SAFFORD, AZ

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1	(Reading)
						(mN/tex)	(inches)	(inches)	(mN/tex)	(%)	
P77	758	A	3.19	36.5	13.3	193	1.39	0.62	310	7.3	4.50
P75	678	B	3.00	36.1	12.5	206	1.41	0.64	320	6.6	4.40
PIMA S-6	622	C B	2.94	39.2	13.5	187	1.37	0.61	306	7.0	4.60
P73	599	C	2.64	36.0	12.7	227	1.40	0.64	341	7.0	4.30
P76	558	C	2.88	38.6	13.3	206	1.39	0.63	318	6.5	4.35
PIMA S-7	470	D	3.03	38.1	12.7	206	1.39	0.62	326	6.6	4.50

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L.	UNIFORMITY	STRENGTH	E	Colorimeter	MICRONAIRE	OIL	NITROGEN	FREE	
	(inches)	(%)	(g/tex)		Rd Hunter's b	(Reading)	(%)	(%)	GOSSYPOL	
									(%)	
P77	1.34	86.9	41.5	7.8	65.9	12	4.30	21.66	4.16	0.88
P75	1.39	89.1	42.4	7.1	68.2	12	4.25	23.47	4.20	0.82
PIMA S-6	1.32	86.6	40.7	7.3	65.8	12	4.25	21.74	4.12	0.67
P73	1.36	88.5	46.6	7.1	70.5	11	4.15	22.79	4.16	0.76
P76	1.37	87.8	45.9	6.9	66.3	11	4.10	21.86	3.73	0.69
PIMA S-7	1.35	86.8	43.7	6.7	67.2	12	4.30	22.29	4.11	0.69





1993 PIMA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

TRANQUILITY, CA

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
P77	1623	A	3.42	39.5	13.0	198	1.34	0.59	320	7.5	4.40
PIMA S-7	1554	B A	3.78	40.6	13.0	194	1.39	0.63	328	6.8	4.60
P73	1441	B A	3.15	38.5	12.6	207	1.38	0.61	360	6.6	4.30
P76	1370	B A	3.97	39.3	14.2	197	1.40	0.62	327	6.5	4.15
PIMA S-6	1348	B A	3.68	41.0	13.9	182	1.33	0.60	305	7.3	4.50
P75	1310	B	3.80	40.4	13.8	189	1.36	0.59	326	6.6	4.35

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
P77	1.31	85.1	44.3	7.0	66.9	12	4.05	22.53	3.47	1.08
PIMA S-7	1.35	86.7	43.1	6.2	69.2	11	4.35	24.56	3.53	1.05
P73	1.35	86.9	46.2	6.9	70.8	11	4.00	25.43	3.40	1.04
P76	1.35	85.0	44.9	6.4	68.9	11	4.15	24.55	3.51	0.92
PIMA S-6	1.32	85.9	41.3	6.5	69.3	12	4.30	24.71	3.58	1.08
P75	1.34	85.5	39.5	6.5	68.1	11	4.25	24.02	3.69	0.92





1993 PIMA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

MARICOPA, AZ

VARIETY	LINT YIELD		BOLL SIZE	LINT	SEED	YARN	Digital Fibrograph		Stelometer		MICRONAIRE
	(lb/acre)		(g/boll)	PERCENT	INDEX	TENACITY (mN/tex)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)	(Reading)
P76	1051	A	3.40	39.7	12.6	194	1.39	0.62	334	7.0	4.55
P77	1009	A	3.09	36.6	11.8	194	1.33	0.61	315	7.5	4.55
P73	994	A	2.91	37.3	11.8	207	1.35	0.60	337	6.4	4.45
PIMA S-6	941	B A	3.14	39.5	12.7	187	1.35	0.60	316	6.5	4.70
PIMA S-7	928	B A	3.27	38.5	11.8	192	1.35	0.58	320	5.8	4.65
P75	827	B	3.62	39.7	12.7	182	1.37	0.60	304	6.5	4.85

SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)

----- Seed Data -----

VARIETY	2.5% S.L. (inches)	UNIFORMITY (%)	STRENGTH (g/tex)	E	Colorimeter Rd Hunter's b	MICRONAIRE (Reading)	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	
P76	1.36	86.5	43.2	6.0	69.5	11	4.45	23.65	3.62	0.75
P77	1.30	86.3	39.6	6.8	67.4	12	4.45	23.59	3.85	0.95
P73	1.35	86.9	44.1	6.3	71.7	11	4.30	25.21	3.87	0.75
PIMA S-6	1.34	87.0	39.8	6.6	69.7	11	4.45	23.88	3.89	0.71
PIMA S-7	1.34	86.7	41.7	6.0	69.9	11	4.60	23.66	3.90	0.67
P75	1.34	86.9	39.6	7.0	68.8	12	4.55	23.07	3.84	0.66

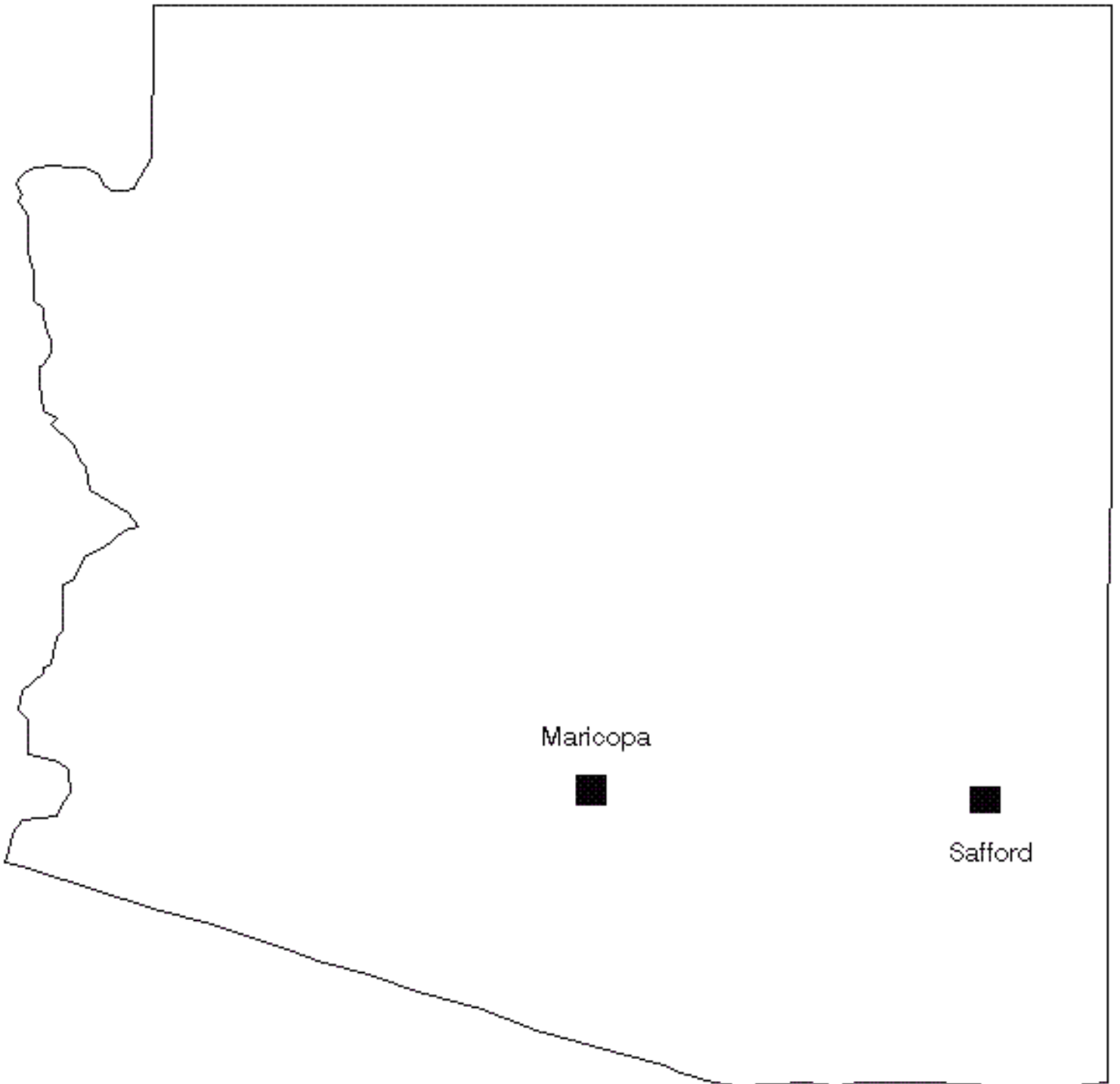




Pima Combed Yarn Test Results

Cooperators

Richard Percy







1993 PIMA COMBED YARN TEST

MARICOPA, AZ

TEST	VARIETY			
	P 73	P 75	P 76	P 77

CLASSER'S DESIGNATION				
Grade:	----	----	----	----
Staple: 32's inch	44	42	43	42
YARN TENACITY, mN/tex:				
11.8-tex, (50's) combed	207.4	169.7	179.1	176.8
7.4-tex, (80's) combed	180.4	154.1	157.8	157.8
YARN APPEARANCE INDEX	5/	95	75	85
100				
YARN IMPERFECTIONS: 6/ (USTER II)				
11.8-tex, (50's) combed (Neps)	336	699	488	373
7.4-tex, (80's) combed (Neps)	478	849	685	534
11.8-tex, (50's) combed (Thin)	21	58	51	33
7.4-tex, (80's) combed (Thin)	63	206	145	113
11.8-tex, (50's) combed (Thick)	171	433	314	246
7.4-tex, (80's) combed (Thick)	319	683	535	467
11.8-tex, (50's) combed (CV)	16.0	17.5	16.8	16.5
7.4-tex, (80's) combed (CV)	18.0	20.0	18.9	18.6
WASTE, percent:				
Picker and card	7.6	8.3	6.8	7.2
Comber	12.7	15.8	13.5	14.0

5/ An index of 100 indicates average yarn appearance.

6/ Performed on Uster II, Model B Evenness Tester.

2/ Adjusted to the weight fed to the first picker.

COMMENTS: P73: Sticking: Slight at picker and roving; excessive cording.

P75: Sticking: Slight at picker and spinning; moderate

roving;

excessive during cording and combing.

P76: Sticking: Slight at picker, drawing, and roving;

moderate

cording; caused drafting problems at comber.

P77: Sticking: Slight at picker and sinning; moderate

combing;

excessive during cording and roving.

TEST	VARIETY	
	Pima S-6	Pima S-7

CLASSER'S DESIGNATION		
Grade:	----	----
Staple: 32's inch	43	42
YARN TENACITY, mN/tex:		
11.8-tex, (50's) combed	169.7	186.2
7.4-tex, (80's) combed	157.8	165.4
YARN APPEARANCE INDEX	5/ 90	90
YARN IMPERFECTIONS: 6/ (USTER II)		
11.8-tex, (50's) combed (Neps)	460	389
7.4-tex, (80's) combed (Neps)	587	472
11.8-tex, (50's) combed (Thin)	32	41
7.4-tex, (80's) combed (Thin)	179	146
11.8-tex, (50's) combed (Thick)	305	236
7.4-tex, (80's) combed (Thick)	518	388
11.8-tex, (50's) combed (CV)	17.1	16.6
7.4-tex, (80's) combed (CV)	19.3	18.3
WASTE, percent:		
Picker and card	8.4	6.6
Comber	12.7	14.5

5/ An index of 100 indicaes average yarn apperance.

6/ Performed on Uster II, Model B Evenness Tester.

2/ Adjusted to the weight fed to the first picker.

COMMENTS: Pima S-6: Slight sticking at picker and during roving; excessive

sticking during cording.

Pima S-7: Slight sticking at picker and during roving;
excessive

sticking during cording.





1993 PIMA COMBED YARN TEST

SAFFORD, AZ

TEST	VARIETY			
	P 73	P 75	P 76	P 77

CLASSER'S DESIGNATION				
Grade:	----	----	----	----
Staple: 32's inch	42	42	43	42
YARN TENACITY, mN/tex:				
11.8-tex, (50's) combed	193.3	169.7	174.4	179.1
7.4-tex, (80's) combed	184.2	154.1	161.6	165.4
YARN APPEARANCE INDEX	5/	85	85	80
YARN IMPERFECTIONS: 6/ (USTER II)				
11.8-tex, (50's) combed (Neps)	488	455	580	419
7.4-tex, (80's) combed (Neps)	699	649	786	653
11.8-tex, (50's) combed (Thin)	26	43	47	36
7.4-tex, (80's) combed (Thin)	71	112	149	118
11.8-tex, (50's) combed (Thick)	308	288	365	248
7.4-tex, (80's) combed (Thick)	463	412	565	458
11.8-tex, (50's) combed (CV)	16.4	17.0	17.5	16.6
7.4-tex, (80's) combed (CV)	17.6	18.7	19.0	18.1
WASTE, percent:				
Picker and card	8.4	8.0	8.4	8.3
Comber	14.6	14.4	14.8	13.9

5/ An index of 100 indicates average yarn apperance.

6/ Performed on Uster II, Model B Evenness Tester.

2/ Adjusted to the weight fed to the first picker.

COMMENTS: P73: Slight sticking during picking and roving.
P75: Slight sticking during picking and roving.
P76: Slight sticking during picking and roving.

P77: Moderate sticking at picker and slight sticking during roving.

TEST	VARIETY	
	Pima S-6	Pima S-7

CLASSER'S DESIGNATION		
Grade:	----	----
Staple: 32's inch	42	42
YARN TENACITY, mN/tex:		
11.8-tex, (50's) combed	172.1	181.5
7.4-tex, (80's) combed	154.1	157.8
YARN APPEARANCE INDEX	5/ 90	80
YARN IMPERFECTIONS: 6/ (USTER II)		
11.8-tex, (50's) combed (Neps)	372	568
7.4-tex, (80's) combed (Neps)	628	701
11.8-tex, (50's) combed (Thin)	38	116
7.4-tex, (80's) combed (Thin)	166	326
11.8-tex, (50's) combed (Thick)	230	376
7.4-tex, (80's) combed (Thick)	562	602
11.8-tex, (50's) combed (CV)	16.7	18.0
7.4-tex, (80's) combed (CV)	18.8	20.4
WASTE, percent:		
Picker and card	8.0	8.3
Comber	14.9	14.4

5/ An index of 100 indicates average yarn apperance.

6/ Performed on Uster II, Model B Evenness Tester.

2/ Adjusted to the weight fed to the first picker.

COMMENTS: Pima S-6: Slight sticking at picker and during roving.
Pima S-7: Slight sticking at picker.

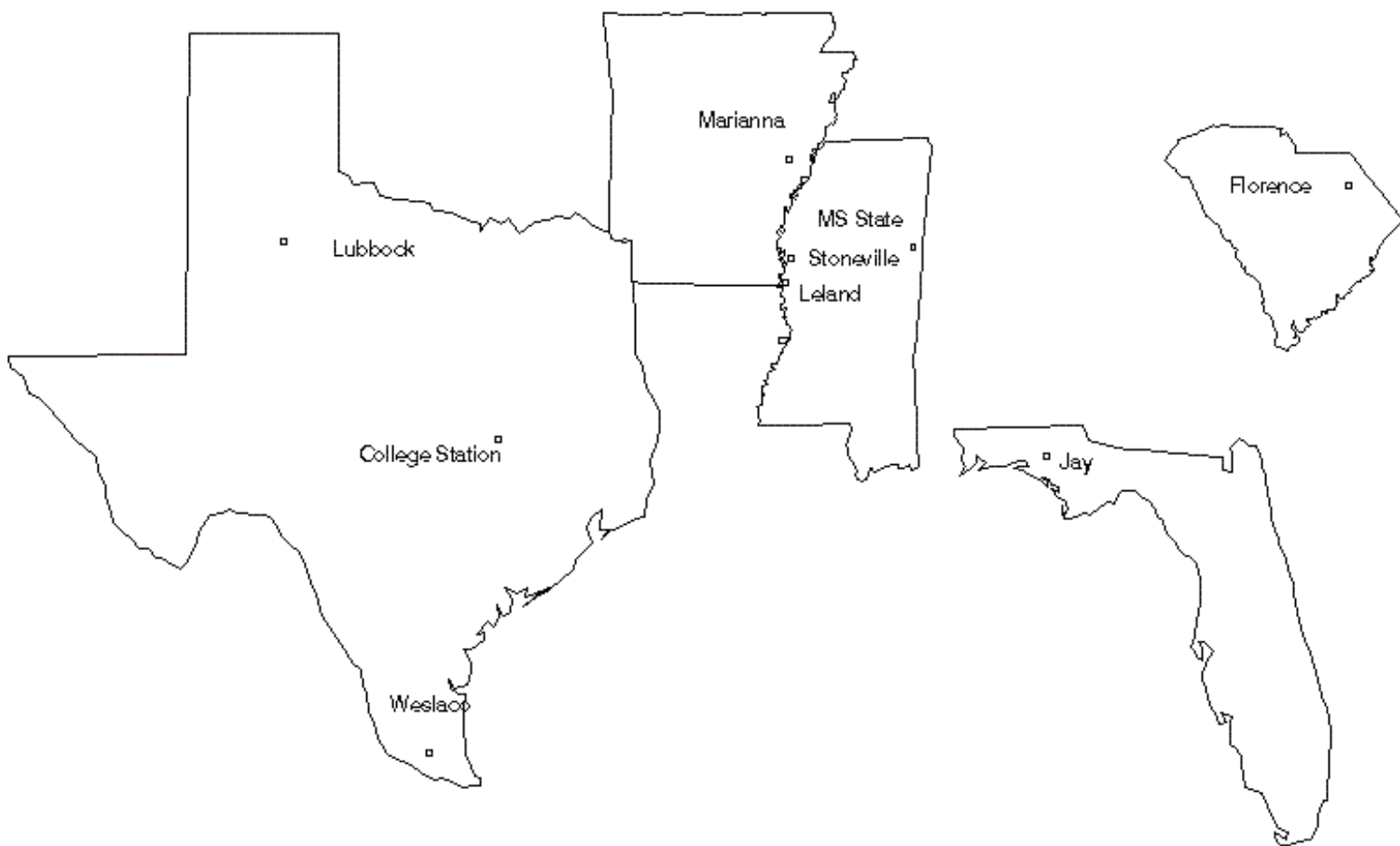




1993 Regional Budworm-Bollworm and Short-Season Test Results

Cooperators

Steve Calhoun, Short Season
J. C. McCarty, Jr., Budworm-Bollworm





1993 Regional Bollworm-Budworm Test Results

Test Locations

College Station, TX
Stoneville, MS
Mississippi State, MS
Florence, SC





Table 1. Regional Bollworm/Budworm Test, College Station, TX, 1993

Entry	Lint yield	Gin Turnout	Micro- naire	Length	\1 Str.	U.l.	Elong- ation	Rd	+B	Color grade
	(Ib/ac)	(%)	(units)	(in.)	(g/tex)	(ratio)	(%)			
LA 880035	1274	39.4	4.3	1.10	29.5	84	6.1	64	7	61
DES 119	1110	40.1	4.8	1.16	29.0	83	6.0	57	8	71
LA 901022	1066	40.3	3.7	1.10	29.5	82	5.7	64	7	61
MAR CAB3CAB3CH-1-8	953	36.8	3.8	1.12	27.0	80	5.3	61	7	66
LA 880073	952	38.5	4.7	1.13	27.0	83	5.9	63	8	62
LA 881512	918	41.1	3.9	1.06	27.5	81	5.5	64	6	61
MAR CD3PIHP45H2-89	812	34.3	4.3	1.12	27.5	84	5.1	62	6	61
MAR MAR5PD208S-4-90	765	34.4	3.6	1.17	28.0	80	5.0	64	6	61
MAR CD3HCHULBH-1-88	761	36.9	4.0	1.03	28.0	81	5.3	61	7	61
PD 5582	741	38	3.5	1.15	27	82	4.7	59	6	66
LSD (k=100)	118	1.2	0.4	0.04	ns	ns	0.6	ns	ns	ns
LSD (k=50)	101									
% CV	9.4	1.4	4.8	1.61	4.4	1.5	4.9	3.8	7.5	5.2
Test mean	935	37.9	4	1.11	28	81	5.4	61	6	63

Values within columns are different at approximately P=0.05 (k=100) or P=0.10 (k=50) if they differ by more than the appropriate LSD at base of column.

\1 Str. = Fiber bundle strength.





Table 2. Regional Bollworm/Budworm Test, Stoneville (DR&EC), MS, 1993

Entry	Lint Yield	Boll Lint	Boll wt.	Mic	UHM Length	Unif. index	Str (T1)	Elongation
	Ib/ac	%	g		in			%
LA 880035	1007	38.0	5.4	4.80	1.13	84.6	30.0	7.4
LA 880073	932	37.7	5.2	4.57	1.13	82.4	28.1	6.9
LA 881512	920	39.7	5.8	4.48	1.12	83.2	27.4	6.7
DELTAPINE 51	885	38.1	4.6	4.92	1.17	83.5	24.2	6.7
LA 9011022	851	39.7	5.1	4.29	1.12	83.5	28.4	6.6
MAR CD3PIHP45H-2-89	835	35.3	5.1	5.07	1.13	84.3	28.9	6.1
DES 119	800	36.2	5.0	4.76	1.16	83.7	29.0	7.1
LA 8580082	696	36.0	4.6	4.62	1.09	81.9	23.9	6.3
PD 5582	687	34.3	4.9	4.27	1.19	84.5	28.2	5.7
MAR CD3HCHULBH-1-88	573	35.5	5.0	4.68	1.08	82.4	24.4	6.1
MAR CABD3CABCH-1-89	450	36.1	4.5	4.48	1.08	83.0	25.3	6.3
MAR MAR5PD208S-4-90	428	33.5	5.0	4.46	1.11	82.1	25.7	5.9
Mean	786	37.2	5.1	4.6	1.13	83.4	27.9	6.6
LSD 0.05	95	0.8	0.5	0.22	0.03	1.4	2.1	0.5
CV (%)	8.7	1.5	7.6	3.4	1.7	1.2	5.3	5.0

Test planted 6 May; harvested 23 September.





Table 3. Regional Heliothis Test, Mississippi State, MS, 1993

Entry	Lint	Boll Size	Lint/a		Loss (bolls/row ft)	Loss lint/a	POP
			W/TBW	W/o TBW			
	%	g	lbs	lbs	no.	Ibs	%
1 LA880035	37.7	4.94	65	274	3.7	209	23.3
2 LA 880073	36.9	4.97	93	217	2.2	124	43.2
3 LA 881512	38.4	4.29	72	177	2.1	105	36.9
4 LA 901022	39.2	4.97	107	305	3.3	198	34.8
5 MAR CD3HCHULBH-1-88	38.0	4.50	89	349	5.0	260	29.7
6 MAR CABD3CABCH-1-88	38.1	4.08	124	310	4.0	186	40.1
7 MAR CD3PIHP45H-2-89	37.8	4.48	103	423	6.2	320	23.9
8 MAR MAR5PD208S-4-90	36.1	4.29	179	400	4.7	221	45.1
9 PD 5582	35.4	4.87	132	285	2.9	153	42.9
10 SG 125	37.8	4.55	149	431	5.4	282	36.0
11 SG223	39.4	4.04	84	354	5.6	270	24.2
12 SG 404	36.4	4.38	138	457	6.6	319	31.1
13 SG 501	37.7	4.64	75	396	6.0	321	20.2
14 DES 119	37.2	3.77	93	291	4.7	198	34.2
15 ST 907	35.5	4.64	129	365	4.7	236	37.3
16 DPL 5415	36.3	4.28	89	391	6.4	302	23.4
F--TEST	**	**	NS	**	**	**	NS
LSD 0.05	.2	0.38	67	89	2	104	21

W/o TBW = Control of insect pest except beet armyworrn.

W/TBW = Artificial infestation with tobacco budworm (TBW) larvae.

Plots were infested on 6/28, 7/6, 7/12, and 7/19

POP = percent of potential = (yield W/TBW divided by yield W/o TBW) X 100

Test planted May 10 and harvested Oct.4

Yields in this test were very low even in the control plots. Heavy boll weevil pressure was experienced during early season. We were able to control the boll weevil; however, not with out some damage. Beet armyworms entered our plots (both infested and control) in early August and built to damaging levels by mid- to late August. This insect pest was not controlled in this test. Data should be viewed with caution.





Table 4. Regional Bollworm/Budworm Test, Florence, SC, 1993

Entry	Full Control Seed	Limited Control cotton yield	Average
	lb/ac	lb/ac	lb/ac
PD 5582	1464	1724	1594
DES 119	1842	1341	1592
LA 880073	1734	1410	1572
LA 901022	1641	1376	1508
LA 880035	1695	1253	1474
LA 881512	1351	1213	1282
MAR CD3PIHP45H-2-89	1125	811	968
MAR MAR5PD208S-2-4-90	943	953	948
MAR CD3HCHULBH-1-89	938	884	911
MAR LBBCDBOAKH-1-90	752	673	712
LSD0.05	Test X Entry NS!		253

! Test X Entry P value = 0.1212

Planted 7 May; harvested 12 October; 4 reps per test;
2-row 35 ft plots, spaced 38 in.

Spray schedule:

Full control

Limited control

June 24: 36 oz/ac larvin

No Insecticide

July 20: 3.3 oz/ac scout X-TRA

July 27: 3.3 oz/ac scout X-TRA

Aug. 3: 3.3 oz/ac scout X-TRA





1993 Regional Short Season Test Results

Test Locations

Location	Cooperator	Institution
Marianna, AR	F.M. Bourland	University of Arkansas
Jay, FL	H.A. Peacock	IFAS, Univerity of Florida
Leland, MS	D.M. Panter	Stoneville Pedigreed Seed Co.
Mississippi State	J.R. McCarty	USDA-ARS
Stoneville, MS	D.S. Calhoun	Miss. Agric. & For. Exp. Stn.
Florence, SC	L. May	USDA-ARS
Lubbock, TX	J.R. Gannaway	Texas Agric. Exp. Stn.
Weslaco, TX	C.G. Cook	USDA-ARS





Table 1. Results of the 1993 Regional Short Season Test, Marianna, AR, 1993

Strain	Lint yield lbs/A	Open boll* %	Lint %	Mic.	Length (UHM) in	Unif. index %	Strength (HVI) g/tex	Elongation %
C224-91	1159	6.7	36.7	4.34	1.14	82.4	27.1	6.7
Stoneville 132	1152	7.2	35.9	4.87	1.12	83.0	24.3	7.2
Stoneville STX 9573	1136	6.9	37.3	4.77	1.16	84.0	28.3	6.9
CD3PIHPR5H-2-89	1094	5.8	33.3	4.86	1.19	83.3	30.7	5.8
LA881512	1061	7.0	37.1	4.16	1.12	84.0	28.6	7.0
CAHUGARPIH-1-88	995	6.1	34.0	4.72	1.18	85.2	26.9	6.1
MAR5PD208S-2-4-90	989	6.2	34.2	4.47	1.18	82.5	27.3	6.2
Suregrow SG 39	985	7.0	36.0	4.58	1.18	83.3	28.6	7.0
Deltapine 50	983	6.8	32.2	4.63	1.18	83.0	26.4	6.8
LA880965	930	6.7	35.8	4.32	1.12	94.1	27.7	6.7
C300-91	881	5.8	37.0	4.60	1.12	82.3	27.4	5.8
Rio 875	870	6.9	33.1	4.11	1.19	83.2	24.8	6.9
CD3HCHULBH-1-88	864	6.2	35.5	4.69	1.10	82.8	27.1	6.2
Acala Maxxa	428	5.7	34.9	3.52	1.16	82.7	32.2	5.7
Mean	966	6.5	35.2	4.47	1.15	84	27.7	6.5
LSD (0.05)	166	1.9	1.8	0.42	0.05	ns	3.5	0.8
CV (%)	12.0	20.1	2.3	4.4	2.0	1.6	5.9	5.8

* Open bolls (rated from 0=none to 10=all on September 23)
 Planted May 17, harvested Oct. 12 on Cotton Branch Station at Marianna.
 Lint yield and open bolls based on 4 reps, lint fraction and fiber properties based on 2 reps.



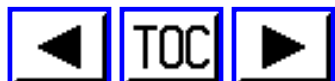


Table 2. Results of the 1993 Regional Short Season Test, Leland, MS, 1993

Strain	Lint yield	Lint %	Mic.	Length 02.5% SL	UR	Strength	Elong- ation
	lbs/A			in	%	g/tex	%
Stoneville STX 9573	964	41	4.8	1.07	81	24	7.5
CD3PIHPR5H-2-89	871	37	5.0	1.09	82	26	7.2
Suregrow SG 39	856	40	5.2	1.09	82	26	7.7
CAHUGARPIH-1-88	843	37	4.7	1.11	83	25	7.4
Stoneville 453	836	39	4.6	1.12	81	25	6.8
Deltapine 20	835	38	4.7	1.05	80	24	7.8
Stoneville 132	753	41	4.7	1.07	81	26	7.7
Stoneville 907	710	37	4.7	1.10	81	27	7.3
CD3HCHULBH-1-88	695	39	4.4	1.01	80	25	7.3
C300-91	671	36	4.3	1.11	82	26	6.7
C316	631	38	4.7	1.02	81	25	7.3
LA881512	625	42	4.1	1.08	81	27	7.5
Rio 875	576	36	4.2	1.08	80	22	7.8
Acala Maxxa	574	40	4.0	1.12	83	30	6.7
MAR5PD208S-2-4-90	558	36	4.2	1.08	80	24	6.9
LA880965	367	39	4.6	1.03	80	26	7.2
MEAN	710	36.4	4.6	1.07	81.1	25.5	7.3
LSD (0.05)	136		0.5	0.03	1.9	2.1	0.5
CV (%)	13.4		4.9	0.00	1.1	3.9	3.1

Planted May 6, Harvested 22 Sept.





Table 3. Results of the 1993 Regional Short Season Test, Mississippi State, MS, 1993

Strain	Lint yield/A		Loss	Loss	POP	Lin	Boll wt.
	W/TBW	Wo/TBW	(bolls/ row ft)	lint/A			
	lb	lb	no.	lb	%	%	g
Acala Maxxa	24	126	2.1	102	20.3	37.7	4.26
C301-91	69	276	4.5	207	26.1	33.9	4.49
C306-91	52	295	4.6	243	18.9	37.0	4.69
LA880965	73	282	4.3	209	27.0	37.1	4.37
LA881512	30	176	2.9	146	16.4	37.8	4.43
CD3HCHULBH-1-88	110	306	4.1	196	38.2	36.3	4.29
CAHUGARPIH-1-88	152	344	3.6	192	44.9	35.9	4.95
CD3PIHPR5H-2-89	102	441	6.4	339	23.8	37.3	4.66
MAR5PD208S-2-4-90	144	401	5.8	257	37.3	34.9	4.22
Rio 875	37	150	2.7	113	32.4	35.0	3.93
Suregrow SG 39	86	342	5.1	256	26.7	36.1	4.59
Stoneville 132	45	144	2.0	99	34.8	38.3	4.21
Stoneville STX 9573	96	293	3.9	197	32.8	39.1	4.30
DES 119	83	284	4.7	201	30.2	35.7	3.97
Deltapine 41	16	120	2.1	104	12.9	35.4	4.49
Deltapine 20	56	276	4.6	220	20.5	35.5	4.43
Mean	73	266	4	193	28	36.4	4
LSD (0.05)	42	86	1.8	90	18.4	1.2	0.54

W/o TBW = Control of insect pests except beet armyworm

W/TBW = Artificial infestation with tobacco budworm (TBW) larvae

Plots were infested on 6/28, 7/6, 7/12, and 7/19

POP = percent of potential = (yield W/TBW divided by yield W/o TBW) X 100

Test planted May 10 and harvested Oct. 4

Yields in this test were very low even in the control plots. Heavy boll weevil pressure was experienced during early season. We were able to control the boll weevil; however, not without some damage. Beet armyworms entered our plots (both infested and control) in early August and built to damaging levels by mid- to late August. This insect pest was not controlled in this test. Data should be viewed with caution.




Table 4. Results of the 1993 Regional Short Season Test, Stoneville, MS, 1993

Strain	Lint yield	Lint %	Boll wt.	Mic	Length (UHM)	Unif. index	Strength (HVI)	Elong ation	Leaf hair*
	lbs/A		g		in	%	g/tex	%	
Suregrow SG 39	1305	38.2	4.98	4.88	1.21	85.3	28.7	6.7	2
Stoneville STX 9573	1194	38.7	4.52	4.74	1.19	83.9	29.1	6.3	5
Stoneville 132	1163	38.9	5.29	4.82	1.12	84.9	25.0	6.5	4
Stoneville LA 887	1137	38.2	5.72	4.78	1.21	84.9	31.1	6.5	5
LA881512	1023	38.8	4.97	4.37	1.13	82.5	27.5	6.7	4
DES 119	1008	37.1	4.46	4.78	1.18	84.3	29.5	7.1	5
C224-91	961	36.5	5.00	4.25	1.14	83.2	26.8	6.9	0-3
CD3PIHPR5H-2-89	918	35.1	5.23	5.07	1.13	84.1	27.4	6.0	3
CAHUGARPIH-1-88	906	35.4	5.67	5.09	1.14	85.6	26.7	6.1	4
Deltapine 51	897	35.4	4.71	4.74	1.17	84.3	23.6	6.6	1
C300-91	846	36.8	4.82	4.88	1.11	82.6	26.3	5.2	4
Rio 875	761	34.0	4.96	4.34	1.16	83.6	25.0	6.3	4
CD3HCHULBH-1-88	631	34.1	5.02	4.60	1.07	82.3	25.5	6.2	3-5
MAR5PD208S-2-4-90	590	32.8	4.78	4.36	1.13	81.9	25.4	5.9	0-2
LA880965	564	36.4	4.69	4.57	1.13	84.2	28.4	6.1	4
Acala Maxxa	422	36.1	4.69	4.08	1.19	85.5	32.9	5.8	2
MEAN	895	36.4	4.97	4.64	1.15	83.9	27.4	6.3	
LSD (0.05)	103	1.0	0.57	0.25	0.03	1.2	1.8	0.4	
CV (%)	8.1	1.9	8.0	3.8	1.6	1.0	4.5	4.1	

* Leaf hair score: 0=glabrous, 5=hairy
 Planted 6 May, Harvested 23 Sept. and 5 Oct.

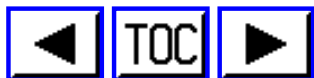




Table 5. Measures of "Earliness" in the 1993 Regional Short Season Test, Stoneville, MS, 1993

Strain	Squares/ft on July		Squares/plant on July		Bolls per: on July 12		Days to NAWB5	NAWB Regression*		Nodes above cracked boll on Sept. 3**		First harvest
	Total	>5mm	Total	>5mm	Ft	Plant		a	b	Last	Term.	
	-----no.-----						d			-----no.-----		%
C224-91	19.9	10.6	7.9	4.0	4.3	2.2	85.5	22.2	-0.20	4.8	9.6	94.7
C300-91	10.8	5.3	5.2	2.5	4.1	2.6	85.5	24.0	-0.22	4.4	11.1	92.9
Rio 875	12.3	6.3	8.3	4.4	5.5	3.3	86.7	23.0	-0.21	5.6	11.8	91.8
CD3HCHULBH-1-88	13.6	7.8	8.7	4.8	6.7	3.5	81.7	25.8	-0.25	2.7	8.4	97.5
CAHUGARPIH-1-88	29.8	19.7	12.5	8.5	12.3	5.6	81.6	26.3	-0.26	1.8	6.3	96.4
MAR5PD208S-2-4-90	18.3	10.8	8.6	4.9	8.9	4.2	79.9	23.2	-0.23	1.8	6.2	95.1
CD3PIHPR5H-2-89	17.7	9.4	7.0	3.7	7.4	3.5	84.3	25.9	-0.25	4.0	11.1	95.2
LA880965	7.7	3.1	3.7	1.5	2.9	1.5	88.6	24.3	-0.22	6.0	13.5	92.5
LA881512	14.9	6.4	6.4	2.7	5.3	2.2	83.7	22.6	-0.21	4.1	9.6	97.0
Acala Maxxa	4.8	2.4	4.4	2.2	1.8	1.3	84.8	22.8	-0.21	6.5	14.4	81.6
Stoneville 132	15.9	8.8	8.1	4.5	7.8	4.0	81.2	23.1	-0.22	5.6	9.4	94.0
Stoneville STX 9573	9.1	3.7	4.8	2.0	2.5	1.3	86.5	21.8	-0.19	5.7	11.6	88.5
Suregrow SG-39	11.3	5.6	5.3	2.6	4.4	1.6	88.4	21.1	-0.18	5.0	11.4	89.9
Deltapine 51	13.7	5.6	6.0	2.5	2.7	1.7	87.9	20.3	-0.17	5.8	11.5	86.1
DES 119	12.6	5.9	7.4	3.4	3.9	2.5	87.1	22.6	-0.20	5.8	11.6	90.4
Stoneville LA887	8.7	3.5	4.1	1.7	1.7	0.8	89.1	24.0	-0.21	6.0	12.5	88.5
Mean	13.8	7.2	6.8	3.5	5.1	2.6	85.2	23.3	-0.2*	4.7	10.6	92.0
LSD (0.05)	5.3	3.5	2.8	1.7	2.6	1.2				1.3	1.9	3.6
CV (%)	27.0	33.8	29.0	34.9	35.8	31.8				20.0	12.9	2.8

* Regression coefficients used to solve for NAWB5 ($a + Xb = Y$), where X=DAP and Y=NAWB.

** Nodes above cracked boll to last effective fruit (Last) or plant terminal (Term.)



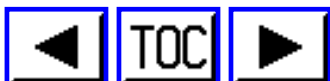


Table 6. Results of the 1993 Regional Short Season Test, Lubbock, TX, 1993

Strain	Lint yield	Turn out	Boll wt.	Seed index	Lint index	Seed/ boll	% Open 9/30/93	Storm Res.
	lbs	%	g	g	g	%	%	
Stoneville 132	1255	27.5	5.0	10.7	7.0	27.7	74	2.7
CD3PIHPR5H-2-89	1228	27.9	4.6	10.2	6.2	27.6	82	2.8
LA880965	1223	27.2	4.7	9.1	6.2	29.6	65	2.7
Paymaster HS-200	1181	26.0	5.5	10.4	6.1	32.8	80	3.1
Rio 875	1179	25.9	4.6	11.1	6.8	25.4	73	2.9
Paymaster HS-26	1175	24.3	5.6	10.7	6.0	32.5	74	3.0
CAHUGARPIH-1-88	1164	25.1	5.0	10.7	6.4	28.2	77	2.6
Suregrow SG 39	1159	26.0	4.6	9.6	6.2	28.7	75	2.3
C300-91	1148	26.4	5.0	9.2	6.1	32.0	78	2.7
Stoneville STX 9573	1126	26.9	4.2	8.8	6.5	26.5	59	2.3
Acala Maxxa	1117	25.5	5.7	11.0	8.1	29.3	59	2.5
CD3HCHULBH-1-88	1103	27.6	5.1	9.9	6.3	29.9	87	2.6
MAR5PD208S-2-4-90	1069	25.7	5.2	10.5	6.1	30.9	88	3.0
Deltapine 50	1063	24.6	4.6	9.3	5.2	31.0	65	2.4
C224-91	1054	27.0	4.8	9.6	6.2	29.6	65	2.5
LA881512	990	26.1	4.6	10.1	6.8	26.6	74	2.7
Test Mean	1128	26.2	5.0	10.2	6.3	29.2	73	2.8
LSD (0.05)	183	3.1	0.7	0.6	0.5	4.1	14	0.2
CV (%)	11.5	5.6	7.0	3	3.7	6.7	13.8	5.2

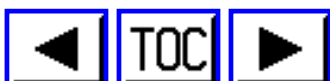




Table 7. Summary of Lint Yields (lbs/A) of Strains in the 1993 Regional Short Season Test

Strain	Mississippi							Weslaco, TX		9-location mean
	Marianna AR	Jay FL	Leland MS	State MS	Stoneville MS	Florence SC	Lubbock TX	Irrigated	Dry land	
Suregrow SG 39	985	1110	856	342	1305	688	1159	1085	1082	957
Stoneville STX 9573	1136	1212	964	293	1194	544	1126	1002	1006	942
CD3PIHPR5H-2-89	1094	1034	871	441	918	647	1228	907	1137	920
Local Check Variety	983	1037	836	284	1008	529	1175	1066	968	876
Stoneville 132	1152	991	753	144	1163	459	1255	1072	865	873
CAHUGARPIH-1-88	995	1121	843	344	906	402	1164	571	956	811
MAR5PD208S-2-4-90	989	1060	558	401	590	315	1069	1019	865	763
LA881512	1061	1014	625	176	1023	525	990	719	663	755
LA880965	930	1384	367	282	564	457	1223	750	723	742
CD3HCHULBH-1-88	864	846	695	306	631	429	1103	713	1008	733
Rio 875	870		576	150	761	400	1179	785	795	
Acala Maxxa	428	274	574	126	422	270	1117			
C300-91	881				846	571	1148	985	1142	
C224-91	1159		671		961	352	1054	1107	1013	
C301-91				276						
C306-91				295						
C316			631							
Deltapine 20			835	276						
Deltapine 41				120						
Deltapine 50		1098					1063			
Deltapine 51					897					
Paymaster HS-200							1181			
Stoneville 907			710							
Stoneville LA 887					1137					
Test Mean	968	1015	710	226	895	471	1128	905	947	
LSD (0.05)	166	142	136	86	103	241	183	196	342	
CV (%)	12.0	9.7	13.4		8.1		11.5			
Local Check:	DP50	KC311	ST453	DES119	DES119	PD-2	PM HS-26	DP50	DP50	





Table 8. Summary of Measures of "Earliness" of Strains in the 1993 Regional Short Season Test

Strain	Marianna AR Open bolls*	Stoneville, MS			Florence SC Open bolls	Lubbock TX Open bolls	Weslaco, TX	
		Squares/ ft (1 July)	NAWB5	First harvest			First harvest	Irrigated	Dry land
		no	DAP	%	%	%	%	%
Acala Maxxa	5.7	4.8	84.8	81.6	59	59		
C224-91	6.7	19.9	85.8	94.7	68	73	37.1	73.5
C300-91	5.8	10.8	85.8	92.9	66	78	64.0	88.5
CAHUGARPIH-1-88	6.1	29.8	81.6	96.4	82	77	90.5	91.5
CD3HCHULBH-1-88	6.2	13.6	81.7	97.5	65	87	84.7	78.5
CD3PIHPR5H-2-89	5.8	17.7	84.3	95.2	79	82	68.5	85.8
LA880965	6.7	7.7	88.6	92.5	81	65	28.3	77.2
LA881512	7.0	14.9	83.7	97.0	71	74	62.9	68.9
MAR5PD208S-2-4-90	6.2	18.3	79.9	95.1	79	77	66.5	88.2
Rio 875	6.9	12.3	86.7	91.8	87	73	79.9	84.3
Stoneville 132	7.2	15.9	81.2	94.0	76	74	45.1	79.0
Stoneville STX 9573	6.9	9.1	86.5	88.5	78	59	33.1	85.4
Suregrow SG 39	7.0	11.3	88.4	89.9	86	75	30.0	89.1
Local Check Variety	6.8	12.6	87.1	90.4	80	74	28.6	79.9
Deltapine 50						65		
Deltapine 51		13.7	87.9	86.1				
Paymaster HS-200						80		
Stoneville LA 887		8.7	89.1	88.5				
Test Mean	6.7	13.8	85.2	92.0	75.5	73	55.3	82.3
LSD (0.05)	1.9	5.3		3.6		14		
CV (%)	20.1	27.0		2.8		14		
Local Check:	DP50	DES 119			PD-2	PM HS-26	DP50	DP50

* Open bolls rated from 0=none to 10=all.



About the National Cotton Variety Tests

The National Cotton Variety Testing Program is a uniform system of reporting data from cotton- yield trials across the US Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State Agricultural Experiment Stations and the Agricultural Research Service. National standard varieties are chosen for a 3-year testing cycle. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. In 1984, the cooperators for the Eastern, Central, and Delta regions elected to include interregional standards. Data on the national, regional, and interregional standards were included in this report. Plot size, cultural practices, number of entries, and sampling methods were left to the discretion of the participating stations. While these details were not rigidly standardized, all tests were conducted by experienced personnel using sound experimental designs and procedures. In this report, you will find yield, boll size, lint percentage, seed index, fiber, yarn, HVI tests, combed yarn tests, and chemical analyses of seed. All data were compiled, analyzed, tabulated, and duplicated by the staff of the office of the Program Analyst for the National Cotton Variety Test. Also included in this report are results of the Regional Project S-205 Regional Bollworm-Budworm and Short-Season Tests. The National Cotton Variety Test, from its inception in 1960 to the current year, is maintained in an archive file at the NCVT Program headquarters, Stoneville, MS. These files are maintained and made available on diskette:

Cottonseed Quality Archive File	1977 - 1994
Yield Archive File	1960 - 1994
Fiber Quality Archive File	1960 - 1994
Pima Combed Yarn Archive File	1962 - 1994

Code Files:

Alpha & Numeric Variety Listings	(2 files)	
Alpha & Numeric Location Listings	(2 files)	(includes Regional Codes)

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