2003 National Cotton Variety Test

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Any time you see the cotton boll photograph as shown here, you may click on it to return to the top of the document.

National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

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Program Headquarters are located in the Crop Genetics & Production 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, New Mexico, North Carolina, Oklahoma, South Carolina, and Texas.

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

National Cotton Variety Tests, 2003.

Yield, Boll, Seed, Spinning, and Fiber Data.

Issued October 2004.

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United States Department of Agriculture
Agricultural Research Service
Crop Genetics & Production Research Unit

P.O. Box 345
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ALTUS, OK (IRR)
AUBURN, AL
BEEVILLE, TX
BELLE MINA, AL
BOSSIER CITY, LA
BROWNFIELD, TX
CHICKASHA, OK (DRY)
CHICKASHA, OK (IRR)
CHILLICOTHE, TX (DRY)
CLARKEDALE, AR
COLLEGE STATION, TX
DALLAS, TX
EL PASO, TX (PIMA)
KEISER, AR
LAMESA, TX (DRY)
LUBBOCK, TX (IRR)
MARICOPA, AZ
PECOS, TX (IRR)
SAINT JOSEPH, LA
STONEVILLE, MS
THRALL, TX
TIPTON, OK
WESLACO, TX

Acknowledgments

The success of the National Cotton Variety Testing Program results from the interest and diligence of many workers who conducted the tests, processed the fiber samples, tabulated the information and analyzed the data. The following were primarily responsible for furnishing field data and providing samples:

Alabama	--	K. Glass
Arizona	--	R. Percy (USDA-ARS)
Arkansas	--	F. M. Bourland
California	--	D. M. Bassett
Georgia	--	S. H. Baker
Louisiana	--	W. D. Caldwell, D. S. Boquet, and R. C. Griffin
Mississippi	--	J. Creech, and W. R. Meredith, Jr. (USDA-ARS)
New Mexico	--	M. Murray, and R. Cantrell (USDA-ARS)
North Carolina	--	D. Bowman
Oklahoma	--	V. Verhalen
South Carolina	--	L. May (USDA-ARS)
Texas	--	J. R. Gannaway, and C. W. Smith

The interest and cooperation of the commercial cottonseed firms of the United States are acknowledged. For the most part, seeds of the regional varieties were contributed by commercial firms. Seeds of varieties used as national standards were supplied by the following organizations:

Acala 1517-99	--CPCSD, Shafter, CA;
All Tex Atlas	--All Tex Seed Company, Levelland, TX
DP 458B/R	--Delta and Pine Land Company, Scott, MS;
and	
Stoneville 4892 B/R	-- Stoneville Pedigreed Seed Company, Stoneville, MS

Joint Cotton Breeding Policy Committee

(As of January 2002)

R. L. Rogers, (Chairman) Louisiana Agricultural Experiment Station, Baton Rouge, LA
A. G. Jordan, (Secretary) National Cotton Council of America, Memphis, TN
B. Lalor, Cotton Incorporated, Raleigh, NC
J. W. Smith, Mississippi Agricultural & Forestry Experiment Station, Stoneville, MS
W. R. Meredith, Jr., Agricultural Research Service, USDA, Stoneville, MS
T. J. Army, Agricultural Research Service, USDA, Stoneville, MS
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V. Watson, Mississippi Agricultural & Forestry Experiment Station, Mississippi State, MS
S. Oakley, California Planting Cotton Seed Distributors, Shafter, CA
J. J. Gwyn, AgrEvo Cotton Seed International, Greenville, MS
R. H. Sheetz, Paymaster Cottonseed Products, Hale Center, TX
T. Helms, Southern Association of Agricultural Experiment Station Directors, Mississippi State, MS

National Cotton Variety Testing Committee

(As of January 2002)

D. M. Bassett, University of CA, U. S. Cotton Research Station, Shafter, CA
J. Creech, Delta Research and Extension Center, Stoneville, MS
F. M. Bourland, University of Arkansas, Fayetteville, AR
R. Cantrell, New Mexico Agricultural Experiment Station, Las Cruces, NM
N. Clark, Clark Brothers, Dos Palos, CA
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C. Green, Delta & Pine Land Co., Hartsville, SC
S. Lincoln, CA Dept. of Food & Agriculture, Sacramento, CA
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R. Sheetz, Cargill Research, Plainview, TX
C. W. Smith, Texas Agricultural Experiment Station, College Station, TX

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 - 2003
Yield Archive File	1960 - 2003
Fiber Quality Archive File	1960 - 2003
Pima Combed Yarn Archive File	1962 - 2003

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.

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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 fifteenth 3-year testing cycle, beginning in 2002, the national standards were Acala 1517-99, All Tex Atlas, DP 458B/R, and Stoneville 4892 B/R. 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 1994, 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 1996, results of the Regional Project S-205 Regional Bollworm-Budworm Tests and the Regional Short Season 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. This information has not been provided to the National Cotton Variety Testing Program staff.

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

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station
Delta Substation
Clarkedale, AR
Mississippi Agricultural and Forestry Experiment Station
Delta Branch
Stoneville, MS
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
Neuces County, 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 and Extension Center(Chillicothe)
Dryland Test
Chillicothe, TX
Agricultural Research and 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
Las Cruces, NM
Southeastern Branch Station
Artesia, NM
Texas A&M University
Agricultural Research Center
Pecos, TX

High Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station
Tennessee Valley Substation
Belle Mina, AL
Arkansas Agricultural Experiment Station
Delta Substation
Keiser, AR
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 and Forestry Experiment Station
Delta Branch
Stoneville, MS
North Carolina State University
Upper Coastal Plain Experiment Station
Rocky Mount, NC
Texas A&M University
Texas Agricultural Experiment Station
College Station, TX

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station
Cotton Research Center
Maricopa, AZ
California Agricultural Experiment Station
West Side Field Station
West Side Field Station, CA
Kern, CA; Shafter, CA; Merced, CA

New Mexico Agricultural Experiment Station
Off-Station Test
Las Cruces, NM

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.

**Test was discontinued in 1994 due to costs of processing samples.

Explanations and Definitions

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:

$$I = \sqrt{(0.07D+1)}$$

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:

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

(t) Wall thickness in microns calculated from:

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

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 180øF 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.

Seed Yield/Acre. The yield in pounds of seed per acre for each plot was calculated and reported. (Reporting started with the 1994 tests.) The calculation used is:

(LINT YIELD/ACRE) X ((100-LINT %) / LINT %)

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 strenght 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.

Introduction and Explanations

Reporting Variations

Arizona Region Test Results:

No tests were conducted in the Arizona Region for 2003.

San Joaquin Region Test Results:

No tests were conducted in the San Joaquin Region for 2003.

Regional High Quality Test Results:

An additional variety (PD 5582 SEL) was tested in some locations, but not consistently over the entire regional test. The data for this variety is included only in the individual component report and the report for the location where it was grown.

Cotton varieties tested in the 2003 National Cotton Variety Tests:

VARIETY CODE	VARIETY	TESTED IN REGION (S):
874	ACALA 1517-95	WESTERN
1128	ACALA 1517-99	NS - IN ALL TESTS
1129	ACALA W 1218	WESTERN
1019	ALL TEX ATLAS	NS - IN ALL TESTS EXCEPT HQ
1212	ALL TEX ATLAS RR	PLAINS
1242	AR 9203-17-12	HIGH QUALITY
1218	CH 007	PIMA
1140	DELTA PEARL	EASTERN, HIGH QUALITY
1241	DP 444 BR	HIGH QUALITY
1223	DP 493	EASTERN
1224	DP 555 R/R	EASTERN, DELTA, HIGH QUALITY
1155	DPL 451 BRR	EASTERN
1152	DPL 458 BG/RR	NS-IN ALL TESTS
1201	DPL 491	EASTERN, HIGH QUALITY
1102	DPL 5415 RR	EASTERN
1094	DPL DPL NuCotn	CENTRAL
1117	FIBERMAX 832	CENTRAL
1169	FIBERMAX 958	PLAINS; BLACKLANDS
1175	FIBERMAX 966	DELTA
1213	FM 5013	PLAINS

1240	FM 800	HIGH QUALITY
1249	FM 832 LL	HIGH QUALITY
1239	FM 958Bt	HIGH QUALITY
1238	FM 960	HIGH QUALITY
1235	FM 989 R	EASTERN
1236	FM 991 R	EASTERN
1244	GA 200009	HIGH QUALITY
1245	GA 98 0 66	HIGH QUALITY
1246	MD 832n	HIGH QUALITY
1197	NM 970123	WESTERN
1167	NM 970513	WESTERN
1210	OA 340	PIMA
1168	PAYMASTER 1218BG/RR	CENTRAL, DELTA
1135	PAYMASTER 2326 RR	PLAINS
1124	PD 5582 SEL	HIGH QUALITY
1219	PD 744	PIMA
1211	PHY 76	PIMA
1166	PHYTOGEN 72	WESTERN
471	PIMA S-6	PIMA
615	PIMA S-7	PIMA
1214	PM 2167 RR	PLAINS
1215	PM 2266 RR	PLAINS
1158	PSC 355	CENTRAL, DELTA, HIGH QUALITY, BLACKLANDS
1232	SG 215 BR	EASTERN, CENTRAL, DELTA, BLACKLANDS
1199	ST 4793 R	EASTERN
1251	ST 5599BR	EASTERN, DELTA
1216	STV 2454 RR	PLAINS
1231	STV 4691 B	CENTRAL
971	STV 474	PLAINS
1196	STV 4892 BR	NS - IN ALL TESTS

2003 REGIONAL SHORT SEASON TEST RESULTS

DELTA RESEARCH AND EXTENSION CENTER
DR. J. CREECH
At the request of Dr. Creech, please access the 2003 Regional Short Season Test Results through the Delta Research and Extension Center Home Page.

2003 REGIONAL SHORT SEASON TEST

2003 BUDWORM/BOLLWORM TEST RESULTS

Currently, no link or data is available for the Budworm/Bollworm Test Results.

Thank you for your interest in the ongoing work of the National Cotton Variety Test Program.

Questions or comments to: ekeene@ars.usda.gov

United States Department of Agriculture

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Other links:

Crop Genetics and Production Research Unit Home Page

Publications of the Crop Genetics & Production Research Unit

Jamie Whitten Delta States Research Center

University of Arkansas Cotton Data

Delta Research and Extension Center, Stoneville, MS

University of Georgia Cotton Data

All Internet Versions of the NCVT Publications are accessible through either the Jamie Whitten Delta States Research Center or the Crop Genetics and Production Research Unit sites

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National Cotton Variety Tests, 2003
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2003 EASTERN REGIONAL COTTON VARIETY TEST

EASTERN
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1232	SG 215 BR	1577	5.34	40.4	9.8	142	0.55	22.6	227	9.7
1196	STV 4892 BR	1533	5.04	40.3	10.1	131	0.55	20.6	207	8.2
1155	DPL 451 BRR	1448	5.22	37.8	10.2	135	0.55	21.7	218	9.4
1199	ST 4793 R	1404	4.96	41.7	9.8	138	0.54	21.2	213	9.3
1251	ST 5599BR	1362	4.60	39.4	9.7	140	0.55	22.5	226	9.5
1224	DP 555 R/R	1295	4.74	42.3	8.1	135	0.55	21.9	219	7.1
1223	DP 493	1242	4.36	43.8	8.6	153	0.55	24.1	242	7.4
1102	DPL 5415 RR	1194	4.41	39.8	8.4	129	0.54	21.3	214	6.8
1201	DPL 491	1138	4.95	42.5	9.3	160	0.55	24.3	244	7.3

1236	FM 991 R	1096	4.61	38.3	9.4	139	0.54	23.0	231	9.7
1235	FM 989 R	1090	5.10	39.3	10.4	122	0.53	19.8	198	9.8
1140	DELTA PEARL	1072	4.52	39.5	9.4	134	0.53	19.9	199	7.5
1152	DPL 458 BG/RR	1040	4.57	39.3	8.9	134	0.55	21.1	211	9.0
1019	ALL TEX ATLAS	867	5.64	36.5	11.3	147	0.56	22.5	226	9.0
1128	ACALA 1517-99	853	4.47	38.1	10.2	166	0.58	26.1	261	7.8
.	LSD	232	0.84	1.9	0.7	5	0.02	3.33	33	1.3

		SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)										
						COLORIMETER HUNTER'S						
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1232	SG 215 BR	3.90	1.10	84.1	25.5	8.7	74.3	8.8	3.93	2331	17.51	3.15
1196	STV 4892 BR	4.45	1.10	84.7	29.3	8.5	75.0	9.3	3.95	2327	16.20	3.20
1155	DPL 451 BRR	4.58	1.18	84.1	27.3	8.2	76.8	8.4	3.83	2336	18.54	2.93
1199	ST 4793 R	4.00	1.10	83.8	29.0	8.5	73.0	9.0	3.95	1992	17.00	3.15
1251	ST 5599BR	4.28	1.10	82.6	31.8	7.6	75.0	9.6	3.23	2039	17.49	3.55
1224	DP 555 R/R	4.38	1.13	83.0	30.0	7.4	76.0	8.9	3.65	1753	14.84	3.55
1223	DP 493	4.33	1.15	83.5	30.0	7.4	77.3	9.0	3.80	1591	14.45	3.43
1102	DPL 5415 RR	4.20	1.10	84.2	30.3	8.6	76.0	8.9	3.88	1752	15.31	2.98
1201	DPL 491	3.70	1.23	84.4	31.3	7.7	75.3	9.4	3.53	1570	15.09	3.43
1236	FM 991 R	4.28	1.18	83.9	33.3	8.2	76.3	9.0	3.53	1707	16.86	3.33
1235	FM 989 R	4.08	1.13	84.1	33.5	8.1	74.5	8.9	3.43	1658	18.25	3.43
1140	DELTA PEARL	4.18	1.20	84.3	30.8	7.4	77.0	8.7	3.65	1737	15.58	3.38
1152	DPL 458 BG/RR	4.53	1.15	83.3	31.5	8.2	76.8	9.3	3.68	1583	17.34	3.18
1019	ALL TEX ATLAS	3.90	1.10	83.5	30.3	8.5	75.3	8.6	4.15	1568	18.70	3.20
1128	ACALA 1517-99	3.80	1.20	84.8	33.3	8.1	75.5	9.5	3.48	1340	17.03	3.50
.	LSD	0.44	0.05	1.1	2.3	0.4	2.5	1.1	0.52	219	1.73	0.30

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1232	SG 215 BR	0.69	0.48	1.16	.	.	.	.	.	.	.
1196	STV 4892 BR	0.89	0.58	1.47	439	29.3	1.75	84	50.02	4.41	2.8

1155	DPL 451 BRR	0.91	0.58	1.48	.	.	.	.	.	.	.
1199	ST 4793 R	0.90	0.57	1.48	.	.	.	.	.	.	.
1251	ST 5599BR	0.78	0.40	1.18	.	.	.	.	.	.	.
1224	DP 555 R/R	0.58	0.38	0.96	.	.	.	.	.	.	.
1223	DP 493	0.51	0.39	0.90	.	.	.	.	.	.	.
1102	DPL 5415 RR	0.64	0.47	1.11	.	.	.	.	.	.	.
1201	DPL 491	0.65	0.51	1.16	.	.	.	.	.	.	.
1236	FM 991 R	0.62	0.42	1.04	.	.	.	.	.	.	.
1235	FM 989 R	0.60	0.40	1.00	.	.	.	.	.	.	.
1140	DELTA PEARL	0.60	0.39	0.98	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.66	0.46	1.13	440	30.4	1.76	83	50.35	4.44	2.8
1019	ALL TEX ATLAS	0.77	0.57	1.34	495	31.3	1.78	82	45.54	3.60	2.5
1128	ACALA 1517-99	0.66	0.45	1.11	492	28.1	1.72	85	43.89	3.45	2.5
.	LSD	0.13	0.08	0.21	70.5	15.5	0.30	12	7.41	0.90	0.5

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
ALL TEX ATLAS	5.64	DP 493	43.8	ALL TEX ATLAS	11.3
SG 215 BR	5.34	DPL 491	42.5	FM 989 R	10.4
DPL 451 BRR	5.22	DP 555 R/R	42.3	ACALA 1517-99	10.2
FM 989 R	5.10	ST 4793 R	41.7	DPL 451 BRR	10.2
STV 4892 BR	5.04	SG 215 BR	40.4	STV 4892 BR	10.1
ST 4793 R	4.96	STV 4892 BR	40.3	SG 215 BR	9.8
DPL 491	4.95	DPL 5415 RR	39.8	ST 4793 R	9.8
DP 555 R/R	4.74	DELTA PEARL	39.5	ST 5599BR	9.7
FM 991 R	4.61	ST 5599BR	39.4	DELTA PEARL	9.4
ST 5599BR	4.60	FM 989 R	39.3	FM 991 R	9.4
DPL 458 BG/RR	4.57	DPL 458 BG/RR	39.3	DPL 491	9.3
DELTA PEARL	4.52	FM 991 R	38.3	DPL 458 BG/RR	8.9
ACALA 1517-99	4.47	ACALA 1517-99	38.1	DP 493	8.6
DPL 5415 RR	4.41	DPL 451 BRR	37.8	DPL 5415 RR	8.4
DP 493	4.36	ALL TEX ATLAS	36.5	DP 555 R/R	8.1
LSD	0.84	LSD	1.9	LSD	0.7

2.5% S.L. (INCHES)	
DPL 491	1.23
ACALA 1517-99	1.20
DELTA PEARL	1.20
DPL 451 BRR	1.18
FM 991 R	1.18
DPL 458 BG/RR	1.15
DP 493	1.15
FM 989 R	1.13
DP 555 R/R	1.13
ALL TEX ATLAS	1.10
STV 4892 BR	1.10
SG 215 BR	1.10
ST 4793 R	1.10
ST 5599BR	1.10
DPL 5415 RR	1.10
LSD	0.05

UR (PERCENT)	
ACALA 1517-99	84.8
STV 4892 BR	84.7
DPL 491	84.4
DELTA PEARL	84.3
DPL 5415 RR	84.2
DPL 451 BRR	84.1
FM 989 R	84.1
SG 215 BR	84.1
FM 991 R	83.9
ST 4793 R	83.8
DP 493	83.5
ALL TEX ATLAS	83.5
DPL 458 BG/RR	83.3
DP 555 R/R	83.0
ST 5599BR	82.6
LSD	1.1

STRENGTH (G/TEX)	
FM 989 R	33.5
ACALA 1517-99	33.3
FM 991 R	33.3
ST 5599BR	31.8
DPL 458 BG/RR	31.5
DPL 491	31.3
DELTA PEARL	30.8
DPL 5415 RR	30.3
ALL TEX ATLAS	30.3
DP 493	30.0
DP 555 R/R	30.0
STV 4892 BR	29.3
ST 4793 R	29.0
DPL 451 BRR	27.3
SG 215 BR	25.5
LSD	2.3

E	
SG 215 BR	8.7
DPL 5415 RR	8.6
STV 4892 BR	8.5
ALL TEX ATLAS	8.5
ST 4793 R	8.5
FM 991 R	8.2
DPL 458 BG/RR	8.2
DPL 451 BRR	8.2
FM 989 R	8.1
ACALA 1517-99	8.1
DPL 491	7.7
ST 5599BR	7.6
DELTA PEARL	7.4
DP 493	7.4
DP 555 R/R	7.4

MICRONAIRE (SL-HVI)	
ALL TEX ATLAS	4.15
STV 4892 BR	3.95
ST 4793 R	3.95
SG 215 BR	3.93
DPL 5415 RR	3.88
DPL 451 BRR	3.83
DP 493	3.80
DPL 458 BG/RR	3.68
DELTA PEARL	3.65
DP 555 R/R	3.65
DPL 491	3.53
FM 991 R	3.53
ACALA 1517-99	3.48
FM 989 R	3.43
ST 5599BR	3.23

COLORIMETER - Rd	
DP 493	77.3
DELTA PEARL	77.0
DPL 451 BRR	76.8
DPL 458 BG/RR	76.8
FM 991 R	76.3
DPL 5415 RR	76.0
DP 555 R/R	76.0
ACALA 1517-99	75.5
ALL TEX ATLAS	75.3
DPL 491	75.3
STV 4892 BR	75.0
ST 5599BR	75.0
FM 989 R	74.5
SG 215 BR	74.3
ST 4793 R	73.0

LSD	0.4

LSD	0.52

LSD	2.5

COLORIMETER - b	
ST 5599BR	9.6
ACALA 1517-99	9.5
DPL 491	9.4
STV 4892 BR	9.3
DPL 458 BG/RR	9.3
DP 493	9.0
FM 991 R	9.0
ST 4793 R	9.0
DP 555 R/R	8.9
FM 989 R	8.9
DPL 5415 RR	8.9
SG 215 BR	8.8
DELTA PEARL	8.7
ALL TEX ATLAS	8.6
DPL 451 BRR	8.4
LSD	1.1

MICRONAIRE	
DPL 451 BRR	4.58
DPL 458 BG/RR	4.53
STV 4892 BR	4.45
DP 555 R/R	4.38
DP 493	4.33
ST 5599BR	4.28
FM 991 R	4.28
DPL 5415 RR	4.20
DELTA PEARL	4.18
FM 989 R	4.08
ST 4793 R	4.00
SG 215 BR	3.90
ALL TEX ATLAS	3.90
ACALA 1517-99	3.80
DPL 491	3.70
LSD	0.44

STELOMETER - E1	
FM 989 R	9.8
FM 991 R	9.7
SG 215 BR	9.7
ST 5599BR	9.5
DPL 451 BRR	9.4
ST 4793 R	9.3
DPL 458 BG/RR	9.0
ALL TEX ATLAS	9.0
STV 4892 BR	8.2
ACALA 1517-99	7.8
DELTA PEARL	7.5
DP 493	7.4
DPL 491	7.3
DP 555 R/R	7.1
DPL 5415 RR	6.8
LSD	1.3

STELOMETER - T1	
ACALA 1517-99	261
DPL 491	244
DP 493	242
FM 991 R	231
SG 215 BR	227
ST 5599BR	226
ALL TEX ATLAS	226
DP 555 R/R	219
DPL 451 BRR	218
DPL 5415 RR	214
ST 4793 R	213
DPL 458 BG/RR	211

FIBROGRAPH--50% S.L.	
ACALA 1517-99	26.1
DPL 491	24.3
DP 493	24.1
FM 991 R	23.0
SG 215 BR	22.6
ST 5599BR	22.5
ALL TEX ATLAS	22.5
DP 555 R/R	21.9
DPL 451 BRR	21.7
DPL 5415 RR	21.3
ST 4793 R	21.2
DPL 458 BG/RR	21.1

FIBROGRAPH--2.5% S.L.	
ACALA 1517-99	0.58
ALL TEX ATLAS	0.56
DPL 491	0.55
DP 493	0.55
DPL 451 BRR	0.55
SG 215 BR	0.55
ST 5599BR	0.55
DP 555 R/R	0.55
DPL 458 BG/RR	0.55
STV 4892 BR	0.55
FM 991 R	0.54
DPL 5415 RR	0.54

STV 4892 BR	207	STV 4892 BR	20.6	ST 4793 R	0.54
DELTA PEARL	199	DELTA PEARL	19.9	DELTA PEARL	0.53
FM 989 R	198	FM 989 R	19.8	FM 989 R	0.53
LSD	33	LSD	3.33	LSD	0.02

YARN TENACITY		AREALOMETER - A (mm2/mm3)		AREALOMETER - D (mm2/mm3)	
ACALA 1517-99	166	ALL TEX ATLAS	495	ALL TEX ATLAS	31.3
DPL 491	160	ACALA 1517-99	492	DPL 458 BG/RR	30.4
DP 493	153	DPL 458 BG/RR	440	STV 4892 BR	29.3
ALL TEX ATLAS	147	STV 4892 BR	439	ACALA 1517-99	28.1
SG 215 BR	142	DPL 491	.	DPL 491	.
ST 5599BR	140	DP 493	.	DP 493	.
FM 991 R	139	SG 215 BR	.	SG 215 BR	.
ST 4793 R	138	ST 5599BR	.	ST 5599BR	.
DP 555 R/R	135	FM 991 R	.	FM 991 R	.
DPL 451 BRR	135	ST 4793 R	.	ST 4793 R	.
DPL 458 BG/RR	134	DP 555 R/R	.	DP 555 R/R	.
DELTA PEARL	134	DPL 451 BRR	.	DPL 451 BRR	.
STV 4892 BR	131	DELTA PEARL	.	DELTA PEARL	.
DPL 5415 RR	129	DPL 5415 RR	.	DPL 5415 RR	.
FM 989 R	122	FM 989 R	.	FM 989 R	.
LSD	5	LSD	70.5	LSD	15.5

AREALOMETER - I		AREALOMETER - M (PERCENT)		AREALOMETER - p (Microns)	
ALL TEX ATLAS	1.78	ACALA 1517-99	85	DPL 458 BG/RR	50.35
DPL 458 BG/RR	1.76	STV 4892 BR	84	STV 4892 BR	50.02
STV 4892 BR	1.75	DPL 458 BG/RR	83	ALL TEX ATLAS	45.54
ACALA 1517-99	1.72	ALL TEX ATLAS	82	ACALA 1517-99	43.89
DPL 491	.	DPL 491	.	DPL 491	.
DP 493	.	DP 493	.	DP 493	.
SG 215 BR	.	SG 215 BR	.	SG 215 BR	.
ST 5599BR	.	ST 5599BR	.	ST 5599BR	.
FM 991 R	.	FM 991 R	.	FM 991 R	.

ST 4793 R	.
DP 555 R/R	.
DPL 451 BRR	.
DELTA PEARL	.
DPL 5415 RR	.
FM 989 R	.
LSD	0.30

ST 4793 R	.
DP 555 R/R	.
DPL 451 BRR	.
DELTA PEARL	.
DPL 5415 RR	.
FM 989 R	.
LSD	12

ST 4793 R	.
DP 555 R/R	.
DPL 451 BRR	.
DELTA PEARL	.
DPL 5415 RR	.
FM 989 R	.
LSD	7.41

AREALOMETER - w (MG/INCH)	
DPL 458 BG/RR	4.44
STV 4892 BR	4.41
ALL TEX ATLAS	3.60
ACALA 1517-99	3.45
DPL 491	.
DP 493	.
SG 215 BR	.
ST 5599BR	.
FM 991 R	.
ST 4793 R	.
DP 555 R/R	.
DPL 451 BRR	.
DELTA PEARL	.
DPL 5415 RR	.
FM 989 R	.
LSD	0.90

AREALOMETER - t (MICRONS)	
DPL 458 BG/RR	2.8
STV 4892 BR	2.8
ACALA 1517-99	2.5
ALL TEX ATLAS	2.5
DPL 491	.
DP 493	.
SG 215 BR	.
ST 5599BR	.
FM 991 R	.
ST 4793 R	.
DP 555 R/R	.
DPL 451 BRR	.
DELTA PEARL	.
DPL 5415 RR	.
FM 989 R	.
LSD	0.5

SEED YIELD (LB/ACRE)	
DPL 451 BRR	2336
SG 215 BR	2331
STV 4892 BR	2327
ST 5599BR	2039
ST 4793 R	1992
DP 555 R/R	1753
DPL 5415 RR	1752
DELTA PEARL	1737
FM 991 R	1707
FM 989 R	1658
DP 493	1591
DPL 458 BG/RR	1583
DPL 491	1570
ALL TEX ATLAS	1568
ACALA 1517-99	1340
LSD	219

OIL (PERCENT)	
ALL TEX ATLAS	18.70
DPL 451 BRR	18.54
FM 989 R	18.25
SG 215 BR	17.51
ST 5599BR	17.49
DPL 458 BG/RR	17.34

NITROGEN (PERCENT)	
ST 5599BR	3.55
DP 555 R/R	3.55
ACALA 1517-99	3.50
FM 989 R	3.43
DPL 491	3.43
DP 493	3.43

PLUS GOSSYPOL	
DPL 451 BRR	0.91
ST 4793 R	0.90
STV 4892 BR	0.89
ST 5599BR	0.78
ALL TEX ATLAS	0.77
SG 215 BR	0.69

ACALA 1517-99	17.03	DELTA PEARL	3.38	DPL 458 BG/RR	0.66
ST 4793 R	17.00	FM 991 R	3.33	ACALA 1517-99	0.66
FM 991 R	16.86	ALL TEX ATLAS	3.20	DPL 491	0.65
STV 4892 BR	16.20	STV 4892 BR	3.20	DPL 5415 RR	0.64
DELTA PEARL	15.58	DPL 458 BG/RR	3.18	FM 991 R	0.62
DPL 5415 RR	15.31	SG 215 BR	3.15	FM 989 R	0.60
DPL 491	15.09	ST 4793 R	3.15	DELTA PEARL	0.60
DP 555 R/R	14.84	DPL 5415 RR	2.98	DP 555 R/R	0.58
DP 493	14.45	DPL 451 BRR	2.93	DP 493	0.51
LSD	1.73	LSD	0.30	LSD	0.13

MINUS GOSSYPOL		TOTAL GOSSYPOL (PERCENT)	
STV 4892 BR	0.58	DPL 451 BRR	1.48
DPL 451 BRR	0.58	ST 4793 R	1.48
ST 4793 R	0.57	STV 4892 BR	1.47
ALL TEX ATLAS	0.57	ALL TEX ATLAS	1.34
DPL 491	0.51	ST 5599BR	1.18
SG 215 BR	0.48	SG 215 BR	1.16
DPL 5415 RR	0.47	DPL 491	1.16
DPL 458 BG/RR	0.46	DPL 458 BG/RR	1.13
ACALA 1517-99	0.45	DPL 5415 RR	1.11
FM 991 R	0.42	ACALA 1517-99	1.11
FM 989 R	0.40	FM 991 R	1.04
ST 5599BR	0.40	FM 989 R	1.00
DP 493	0.39	DELTA PEARL	0.98
DELTA PEARL	0.39	DP 555 R/R	0.96
DP 555 R/R	0.38	DP 493	0.90
LSD	0.08	LSD	0.21

LOCATIONS COMBINING VARIETIES

	LINT	BOLL	YARN	DIGITAL FIBROGRAPH	STELOMETER

LOCATION	YIELD (lb/acre)	SIZE (g/boll)	LINT PERCENT	SEED INDEX	TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
AUBURN, AL	1478	4.90	40.6	9.6	138	0.54	22.5	225	8.6
BELLE MINA, AL	950	4.77	39.2	9.6	142	0.55	21.9	219	8.3

	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)										
	MICRO-NAIRE	2.5% S.L.	UNIFO-MITY	STRE-NGTH	COLORIMETER HUNTER'S			MICRO-NAIRE	SEED YIELD	OIL	NITR OGEN
LOCATION	(reading)	(in.)	(%)	(g/tex)	E	Rd	b	(Reading)	(lb/ac)	(%)	(%)
AUBURN, AL	4.13	1.15	84.1	29.9	8.0	75.1	9.3	3.78	2192	16.83	3.25
BELLE MINA, AL	4.21	1.13	83.6	31.0	8.1	76.0	8.7	3.64	1446	16.52	3.33

	---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
	PLUS	MINUS	TOTAL	A	D		M	p	w	t
LOCATION	(+)	(-)	(%)	---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
AUBURN, AL	0.72	0.50	1.22	465	30.1	1.76	83	47.61	3.98	2.6
BELLE MINA, AL	0.67	0.44	1.11	468	29.4	1.75	84	47.29	3.97	2.6

AUBURN, AL
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)

1196	STV 4892 BR	1911	5.22	42.2	10.0	125	0.54	20.6	206	8.8
1232	SG 215 BR	1906	5.62	41.2	9.8	138	0.54	22.1	222	9.9
1155	DPL 451 BRR	1798	5.70	38.4	10.3	135	0.55	22.7	227	9.6
1199	ST 4793 R	1714	5.22	43.3	10.1	135	0.52	19.4	195	9.2
1251	ST 5599BR	1701	4.58	40.6	9.7	136	0.53	20.3	203	9.8
1224	DP 555 R/R	1577	4.73	42.5	8.0	134	0.54	23.2	233	7.3
1223	DP 493	1556	4.51	44.3	8.4	153	0.54	25.5	256	7.7
1102	DPL 5415 RR	1448	4.64	40.3	8.3	127	0.53	21.9	220	6.8
1140	DELTA PEARL	1365	4.41	40.3	9.7	131	0.52	20.7	207	7.7
1201	DPL 491	1341	4.58	42.0	9.4	161	0.56	25.7	258	7.4
1236	FM 991 R	1296	4.35	39.4	9.0	137	0.54	23.6	237	11.0
1235	FM 989 R	1258	5.06	39.6	10.4	119	0.54	20.0	200	9.1
1152	DPL 458 BG/RR	1175	4.35	39.6	8.7	133	0.53	21.6	217	9.0
1019	ALL TEX ATLAS	1120	6.24	38.0	11.8	145	0.56	23.3	234	8.7
1128	ACALA 1517-99	1008	4.31	38.3	10.0	163	0.57	26.8	269	8.1
.	LSD	239	0.70	1.4	0.9	11	0.03	1.40	14	1.6

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
							COLORIMETER					
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	HUNTER'S Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	4.45	1.10	84.4	28.0	8.5	73.5	9.1	4.20	2684	16.91	3.15
1232	SG 215 BR	3.65	1.10	84.0	25.0	8.7	74.5	8.6	4.15	2721	18.09	2.95
1155	DPL 451 BRR	4.45	1.15	84.2	26.5	8.1	77.5	8.2	4.00	2771	19.32	2.95
1199	ST 4793 R	3.95	1.10	83.9	27.5	8.4	72.5	8.9	4.35	2337	17.28	2.95
1251	ST 5599BR	4.35	1.10	83.1	30.5	7.5	73.5	10.0	3.35	2497	16.71	3.60
1224	DP 555 R/R	4.20	1.15	83.9	29.0	7.4	76.0	9.6	3.55	2183	14.37	3.45
1223	DP 493	4.35	1.15	83.9	29.0	7.4	77.0	9.6	3.90	2023	14.66	3.45
1102	DPL 5415 RR	4.15	1.10	84.6	29.0	8.4	76.5	9.6	4.05	2229	15.59	2.95
1140	DELTA PEARL	4.20	1.20	84.4	32.0	7.6	76.5	9.3	3.65	2167	15.79	3.45
1201	DPL 491	3.60	1.25	84.9	31.0	7.5	75.5	9.8	3.35	1888	15.28	3.35
1236	FM 991 R	4.00	1.20	84.4	32.5	7.9	74.5	9.7	3.35	2000	16.68	3.40
1235	FM 989 R	4.20	1.15	83.9	33.0	7.9	75.0	9.4	3.45	1957	17.13	3.45
1152	DPL 458 BG/RR	4.35	1.20	84.1	31.5	7.9	76.0	10.0	3.55	1907	17.97	2.95
1019	ALL TEX ATLAS	4.15	1.10	83.4	31.0	8.7	74.0	8.8	4.35	1955	19.49	3.15
1128	ACALA 1517-99	3.85	1.20	85.0	33.0	8.1	74.5	9.8	3.45	1564	17.26	3.50

.	LSD	0.54	0.09	1.5	1.6	0.7	2.1	0.5	0.39	554	1.49	0.31

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS--- PLUS (+)	MINUS (-)	TOTAL (%)	----------AREALOMETER DATA---------- A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	0.94	0.62	1.56	437	27.0	1.70	86	48.90	4.34	2.8
1232	SG 215 BR	0.75	0.53	1.28	.	.	.	.	.	.	.
1155	DPL 451 BRR	0.95	0.59	1.54	.	.	.	.	.	.	.
1199	ST 4793 R	1.04	0.67	1.71	.	.	.	.	.	.	.
1251	ST 5599BR	0.80	0.43	1.23	.	.	.	.	.	.	.
1224	DP 555 R/R	0.58	0.39	0.96	.	.	.	.	.	.	.
1223	DP 493	0.52	0.40	0.92	.	.	.	.	.	.	.
1102	DPL 5415 RR	0.62	0.46	1.08	.	.	.	.	.	.	.
1140	DELTA PEARL	0.63	0.42	1.04	.	.	.	.	.	.	.
1201	DPL 491	0.69	0.55	1.23	.	.	.	.	.	.	.
1236	FM 991 R	0.58	0.41	0.98	.	.	.	.	.	.	.
1235	FM 989 R	0.62	0.44	1.06	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.69	0.48	1.17	461	35.8	1.87	79	50.94	4.28	2.6
1019	ALL TEX ATLAS	0.82	0.62	1.44	471	32.8	1.81	81	48.20	3.95	2.6
1128	ACALA 1517-99	0.65	0.46	1.11	490	24.8	1.66	87	42.41	3.35	2.5
.	LSD	0.10	0.10	0.17	62.2	8.2	0.15	6	6.29	0.90	0.4

BELLE MINA, AL
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
1232	SG 215 BR	1247	5.05	39.6	9.7	146	0.55	23.1	232	9.4
1196	STV 4892 BR	1155	4.85	38.5	10.2	137	0.56	20.7	207	7.5
1155	DPL 451 BRR	1099	4.74	37.2	10.1	136	0.55	20.8	208	9.3

1199	ST 4793 R	1094	4.70	40.2	9.4	141	0.55	23.1	231	9.5
1251	ST 5599BR	1024	4.61	38.3	9.7	145	0.56	24.8	248	9.2
1224	DP 555 R/R	1013	4.75	42.2	8.3	137	0.56	20.5	205	6.9
1102	DPL 5415 RR	940	4.18	39.4	8.5	131	0.55	20.7	208	6.9
1201	DPL 491	935	5.32	43.0	9.3	160	0.54	22.9	230	7.3
1223	DP 493	929	4.20	43.3	8.9	152	0.56	22.7	228	7.2
1235	FM 989 R	923	5.14	39.0	10.5	125	0.53	19.6	197	10.5
1152	DPL 458 BG/RR	905	4.79	39.0	9.1	136	0.56	20.6	206	8.9
1236	FM 991 R	897	4.87	37.2	9.8	141	0.54	22.5	226	8.4
1140	DELTA PEARL	779	4.63	38.6	9.1	137	0.55	19.1	191	7.4
1128	ACALA 1517-99	698	4.63	38.0	10.5	169	0.59	25.3	253	7.5
1019	ALL TEX ATLAS	614	5.03	35.0	10.8	149	0.56	21.7	218	9.3
.	LSD	149	0.75	1.9	0.5	6	0.02	2.02	20	1.7

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
							COLORIMETER					
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	HUNTER'S Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1232	SG 215 BR	4.15	1.10	84.3	26.0	8.7	74.0	9.0	3.70	1941	16.94	3.35
1196	STV 4892 BR	4.45	1.10	85.1	30.5	8.5	76.5	9.5	3.70	1969	15.48	3.25
1155	DPL 451 BRR	4.70	1.20	84.1	28.0	8.2	76.0	8.6	3.65	1902	17.77	2.90
1199	ST 4793 R	4.05	1.10	83.6	30.5	8.5	73.5	9.1	3.55	1647	16.73	3.35
1251	ST 5599BR	4.20	1.10	82.1	33.0	7.8	76.5	9.1	3.10	1581	18.28	3.50
1224	DP 555 R/R	4.55	1.10	82.2	31.0	7.4	76.0	8.3	3.75	1323	15.30	3.65
1102	DPL 5415 RR	4.25	1.10	83.8	31.5	8.7	75.5	8.3	3.70	1275	15.04	3.00
1201	DPL 491	3.80	1.20	84.0	31.5	7.9	75.0	9.0	3.70	1252	14.91	3.50
1223	DP 493	4.30	1.15	83.2	31.0	7.5	77.5	8.5	3.70	1159	14.24	3.40
1235	FM 989 R	3.95	1.10	84.4	34.0	8.3	74.0	8.5	3.40	1360	19.37	3.40
1152	DPL 458 BG/RR	4.70	1.10	82.5	31.5	8.4	77.5	8.6	3.80	1259	16.70	3.40
1236	FM 991 R	4.55	1.15	83.4	34.0	8.5	78.0	8.3	3.70	1414	17.05	3.25
1140	DELTA PEARL	4.15	1.20	84.3	29.5	7.3	77.5	8.1	3.65	1307	15.38	3.30
1128	ACALA 1517-99	3.75	1.20	84.7	33.5	8.1	76.5	9.2	3.50	1116	16.80	3.50
1019	ALL TEX ATLAS	3.65	1.10	83.5	29.5	8.2	76.5	8.5	3.95	1182	17.90	3.25
.	LSD	0.70	0.06	1.1	3.2	0.5	3.0	0.7	0.38	293	2.36	0.38

---GOSSYPOL LEVELS--- ----------AREALOMETER DATA----------

VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1232	SG 215 BR	0.62	0.43	1.05	.	.	.	.	.	.	.
1196	STV 4892 BR	0.84	0.55	1.38	441	31.5	1.79	82	51.14	4.49	2.8
1155	DPL 451 BRR	0.86	0.57	1.43	.	.	.	.	.	.	.
1199	ST 4793 R	0.77	0.48	1.25	.	.	.	.	.	.	.
1251	ST 5599BR	0.76	0.37	1.13	.	.	.	.	.	.	.
1224	DP 555 R/R	0.59	0.37	0.96	.	.	.	.	.	.	.
1102	DPL 5415 RR	0.66	0.49	1.14	.	.	.	.	.	.	.
1201	DPL 491	0.62	0.47	1.08	.	.	.	.	.	.	.
1223	DP 493	0.51	0.38	0.88	.	.	.	.	.	.	.
1235	FM 989 R	0.59	0.37	0.95	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.64	0.45	1.09	420	25.0	1.66	87	49.76	4.60	3.0
1236	FM 991 R	0.66	0.44	1.10	.	.	.	.	.	.	.
1140	DELTA PEARL	0.57	0.36	0.92	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.67	0.44	1.11	495	31.5	1.79	82	45.37	3.55	2.5
1019	ALL TEX ATLAS	0.71	0.53	1.24	519	29.8	1.76	84	42.89	3.26	2.4
.	LSD	0.06	0.06	0.11	99.4	16.6	0.32	13	12.18	1.53	0.5

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National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

2003 DELTA REGIONAL COTTON VARIETY TEST

DELTA
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1224	DP 555 R/R	1249	4.24	44.3	7.9	126	0.56	19.4	194	7.8
1196	STV 4892 BR	1174	4.85	41.9	9.9	133	0.57	21.6	216	7.3
1251	ST 5599BR	1159	5.65	41.6	10.6	128	0.56	20.3	203	7.7
1168	PAYMASTER 1218BG/RR	1141	5.26	41.6	11.0	123	0.55	19.2	193	7.8
1232	SG 215 BR	1081	5.09	40.8	9.9	147	0.58	22.5	225	6.9
1175	FIBERMAX 966	1078	5.62	41.3	11.2	146	0.57	22.5	225	6.7
1158	PSC 355	1062	4.56	40.6	9.8	123	0.56	19.4	195	8.6
1152	DPL 458 BG/RR	1005	4.52	40.2	8.9	138	0.58	22.3	223	7.5
1128	ACALA 1517-99	896	4.76	38.8	10.7	142	0.59	23.6	237	7.4
1019	ALL TEX ATLAS	662	4.70	36.1	11.0	138	0.57	23.0	230	8.1

. LSD	172	0.46	1.5	0.5	23	0.04	3.20	32	1.6	

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1224	DP 555 R/R	4.40	1.13	82.5	30.3	7.5	75.5	6.9	4.80	1627	17.85	3.00
1196	STV 4892 BR	4.33	1.10	84.2	30.3	8.5	72.5	7.8	5.05	1612	19.16	2.98
1251	ST 5599BR	4.55	1.10	83.7	31.5	8.0	71.8	8.4	4.85	1617	21.08	2.98
1168	PAYMASTER 1218BG/RR	4.38	1.10	83.8	29.0	8.3	73.5	8.1	5.13	1651	20.51	3.12
1232	SG 215 BR	4.45	1.08	83.5	29.3	8.8	75.3	8.1	4.88	1665	19.43	3.07
1175	FIBERMAX 966	4.23	1.18	84.9	36.8	7.9	74.5	7.0	4.63	1492	20.40	2.87
1158	PSC 355	4.57	1.10	84.6	32.3	9.0	73.0	8.1	4.90	1574	20.55	2.92
1152	DPL 458 BG/RR	4.17	1.10	83.4	31.5	8.4	75.0	7.7	5.00	1402	18.65	2.93
1128	ACALA 1517-99	4.33	1.20	84.3	34.5	8.3	71.3	7.5	4.28	1447	20.36	3.10
1019	ALL TEX ATLAS	4.40	1.10	83.2	32.3	8.6	73.5	7.4	4.73	1109	19.85	3.15
.	LSD	0.74	0.04	1.7	1.5	0.3	2.4	0.6	0.49	257	2.03	0.36

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1224	DP 555 R/R	0.66	0.49	1.15	419	24.8	1.66	87	49.64	4.59	3.0
1196	STV 4892 BR	1.11	0.74	1.85	454	29.6	1.74	84	48.43	4.23	2.7
1251	ST 5599BR	1.14	0.63	1.77	.	.	.	.	.	.	.
1168	PAYMASTER 1218BG/RR	0.86	0.54	1.40	410	26.5	1.69	86	51.73	4.88	3.0
1232	SG 215 BR	0.84	0.61	1.45	.	.	.	.	.	.	.
1175	FIBERMAX 966	0.57	0.51	1.08	434	26.3	1.69	86	48.70	4.34	2.9
1158	PSC 355	1.00	0.60	1.60	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.77	0.59	1.36	459	26.4	1.67	87	45.93	3.94	2.8
1128	ACALA 1517-99	0.84	0.61	1.44	433	22.8	1.61	89	46.96	4.28	2.9
1019	ALL TEX ATLAS	0.83	0.64	1.47	441	23.3	1.62	89	46.33	4.07	2.8
.	LSD	0.16	0.09	0.22	89.7	10.5	0.20	8	6.75	1.57	0.7

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL	
ST 5599BR	5.65
FIBERMAX 966	5.62
PAYMASTER 1218BG/RR	5.26
SG 215 BR	5.09
STV 4892 BR	4.85
ACALA 1517-99	4.76
ALL TEX ATLAS	4.70
PSC 355	4.56
DPL 458 BG/RR	4.52
DP 555 R/R	4.24
LSD	0.46

LINT PERCENT	
DP 555 R/R	44.3
STV 4892 BR	41.9
PAYMASTER 1218BG/RR	41.6
ST 5599BR	41.6
FIBERMAX 966	41.3
SG 215 BR	40.8
PSC 355	40.6
DPL 458 BG/RR	40.2
ACALA 1517-99	38.8
ALL TEX ATLAS	36.1
LSD	1.5

SEED INDEX	
FIBERMAX 966	11.2
ALL TEX ATLAS	11.0
PAYMASTER 1218BG/RR	11.0
ACALA 1517-99	10.7
ST 5599BR	10.6
STV 4892 BR	9.9
SG 215 BR	9.9
PSC 355	9.8
DPL 458 BG/RR	8.9
DP 555 R/R	7.9
LSD	0.5

2.5% S.L. (INCHES)	
ACALA 1517-99	1.20
FIBERMAX 966	1.18
DP 555 R/R	1.13
ALL TEX ATLAS	1.10
PAYMASTER 1218BG/RR	1.10
ST 5599BR	1.10
STV 4892 BR	1.10
PSC 355	1.10
DPL 458 BG/RR	1.10
SG 215 BR	1.08
LSD	0.04

UR (PERCENT)	
FIBERMAX 966	84.9
PSC 355	84.6
ACALA 1517-99	84.3
STV 4892 BR	84.2
PAYMASTER 1218BG/RR	83.8
ST 5599BR	83.7
SG 215 BR	83.5
DPL 458 BG/RR	83.4
ALL TEX ATLAS	83.2
DP 555 R/R	82.5
LSD	1.7

STRENGTH (G/TEX)	
FIBERMAX 966	36.8
ACALA 1517-99	34.5
PSC 355	32.3
ALL TEX ATLAS	32.3
ST 5599BR	31.5
DPL 458 BG/RR	31.5
STV 4892 BR	30.3
DP 555 R/R	30.3
SG 215 BR	29.3
PAYMASTER 1218BG/RR	29.0
LSD	1.5

E	
PSC 355	9.0
SG 215 BR	8.8
ALL TEX ATLAS	8.6

MICRONAIRE (SL-HVI)	
PAYMASTER 1218BG/RR	5.13
STV 4892 BR	5.05
DPL 458 BG/RR	5.00

COLORIMETER - Rd	
DP 555 R/R	75.5
SG 215 BR	75.3
DPL 458 BG/RR	75.0

STV 4892 BR	8.5	PSC 355	4.90	FIBERMAX 966	74.5
DPL 458 BG/RR	8.4	SG 215 BR	4.88	PAYMASTER 1218BG/RR	73.5
ACALA 1517-99	8.3	ST 5599BR	4.85	ALL TEX ATLAS	73.5
PAYMASTER 1218BG/RR	8.3	DP 555 R/R	4.80	PSC 355	73.0
ST 5599BR	8.0	ALL TEX ATLAS	4.73	STV 4892 BR	72.5
FIBERMAX 966	7.9	FIBERMAX 966	4.63	ST 5599BR	71.8
DP 555 R/R	7.5	ACALA 1517-99	4.28	ACALA 1517-99	71.3
LSD	0.3	LSD	0.49	LSD	2.4

COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
ST 5599BR	8.4	PSC 355	4.57	PSC 355	8.6
SG 215 BR	8.1	ST 5599BR	4.55	ALL TEX ATLAS	8.1
PSC 355	8.1	SG 215 BR	4.45	DP 555 R/R	7.8
PAYMASTER 1218BG/RR	8.1	ALL TEX ATLAS	4.40	PAYMASTER 1218BG/RR	7.8
STV 4892 BR	7.8	DP 555 R/R	4.40	ST 5599BR	7.7
DPL 458 BG/RR	7.7	PAYMASTER 1218BG/RR	4.38	DPL 458 BG/RR	7.5
ACALA 1517-99	7.5	STV 4892 BR	4.33	ACALA 1517-99	7.4
ALL TEX ATLAS	7.4	ACALA 1517-99	4.33	STV 4892 BR	7.3
FIBERMAX 966	7.0	FIBERMAX 966	4.23	SG 215 BR	6.9
DP 555 R/R	6.9	DPL 458 BG/RR	4.17	FIBERMAX 966	6.7
LSD	0.6	LSD	0.74	LSD	1.6

STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
ACALA 1517-99	237	ACALA 1517-99	23.6	ACALA 1517-99	0.59
ALL TEX ATLAS	230	ALL TEX ATLAS	23.0	DPL 458 BG/RR	0.58
FIBERMAX 966	225	FIBERMAX 966	22.5	SG 215 BR	0.58
SG 215 BR	225	SG 215 BR	22.5	FIBERMAX 966	0.57
DPL 458 BG/RR	223	DPL 458 BG/RR	22.3	ALL TEX ATLAS	0.57
STV 4892 BR	216	STV 4892 BR	21.6	STV 4892 BR	0.57
ST 5599BR	203	ST 5599BR	20.3	PSC 355	0.56
PSC 355	195	PSC 355	19.4	ST 5599BR	0.56
DP 555 R/R	194	DP 555 R/R	19.4	DP 555 R/R	0.56
PAYMASTER 1218BG/RR	193	PAYMASTER 1218BG/RR	19.2	PAYMASTER 1218BG/RR	0.55
LSD	32	LSD	3.20	LSD	0.04

YARN TENACITY	
SG 215 BR	147
FIBERMAX 966	146
ACALA 1517-99	142
ALL TEX ATLAS	138
DPL 458 BG/RR	138
STV 4892 BR	133
ST 5599BR	128
DP 555 R/R	126
PAYMASTER 1218BG/RR	123
PSC 355	123
LSD	23

AREALOMETER - A (mm2/mm3)	
DPL 458 BG/RR	459
STV 4892 BR	454
ALL TEX ATLAS	441
FIBERMAX 966	434
ACALA 1517-99	433
DP 555 R/R	419
PAYMASTER 1218BG/RR	410
SG 215 BR	.
ST 5599BR	.
PSC 355	.
LSD	89.7

AREALOMETER - D (mm2/mm3)	
STV 4892 BR	29.6
PAYMASTER 1218BG/RR	26.5
DPL 458 BG/RR	26.4
FIBERMAX 966	26.3
DP 555 R/R	24.8
ALL TEX ATLAS	23.3
ACALA 1517-99	22.8
SG 215 BR	.
ST 5599BR	.
PSC 355	.
LSD	10.5

AREALOMETER - I	
STV 4892 BR	1.74
PAYMASTER 1218BG/RR	1.69
FIBERMAX 966	1.69
DPL 458 BG/RR	1.67
DP 555 R/R	1.66
ALL TEX ATLAS	1.62
ACALA 1517-99	1.61
SG 215 BR	.
ST 5599BR	.
PSC 355	.
LSD	0.20

AREALOMETER - M (PERCENT)	
ACALA 1517-99	89
ALL TEX ATLAS	89
DP 555 R/R	87
DPL 458 BG/RR	87
PAYMASTER 1218BG/RR	86
FIBERMAX 966	86
STV 4892 BR	84
SG 215 BR	.
ST 5599BR	.
PSC 355	.
LSD	8

AREALOMETER - p (Microns)	
PAYMASTER 1218BG/RR	51.73
DP 555 R/R	49.64
FIBERMAX 966	48.70
STV 4892 BR	48.43
ACALA 1517-99	46.96
ALL TEX ATLAS	46.33
DPL 458 BG/RR	45.93
SG 215 BR	.
ST 5599BR	.
PSC 355	.
LSD	6.75

AREALOMETER - w (MG/INCH)	
PAYMASTER 1218BG/RR	4.88
DP 555 R/R	4.59
FIBERMAX 966	4.34
ACALA 1517-99	4.28

AREALOMETER - t (MICRONS)	
PAYMASTER 1218BG/RR	3.0
DP 555 R/R	3.0
ACALA 1517-99	2.9
FIBERMAX 966	2.9

SEED YIELD (LB/ACRE)	
SG 215 BR	1665
PAYMASTER 1218BG/RR	1651
DP 555 R/R	1627
ST 5599BR	1617

STV 4892 BR	4.23
ALL TEX ATLAS	4.07
DPL 458 BG/RR	3.94
SG 215 BR	.
ST 5599BR	.
PSC 355	.
LSD	1.57

ALL TEX ATLAS	2.8
DPL 458 BG/RR	2.8
STV 4892 BR	2.7
SG 215 BR	.
ST 5599BR	.
PSC 355	.
LSD	0.7

STV 4892 BR	1612
PSC 355	1574
FIBERMAX 966	1492
ACALA 1517-99	1447
DPL 458 BG/RR	1402
ALL TEX ATLAS	1109
LSD	257

OIL (PERCENT)	
ST 5599BR	21.08
PSC 355	20.55
PAYMASTER 1218BG/RR	20.51
FIBERMAX 966	20.40
ACALA 1517-99	20.36
ALL TEX ATLAS	19.85
SG 215 BR	19.43
STV 4892 BR	19.16
DPL 458 BG/RR	18.65
DP 555 R/R	17.85
LSD	2.03

NITROGEN (PERCENT)	
ALL TEX ATLAS	3.15
PAYMASTER 1218BG/RR	3.12
ACALA 1517-99	3.10
SG 215 BR	3.07
DP 555 R/R	3.00
ST 5599BR	2.98
STV 4892 BR	2.98
DPL 458 BG/RR	2.93
PSC 355	2.92
FIBERMAX 966	2.87
LSD	0.36

PLUS GOSSYPOL	
ST 5599BR	1.14
STV 4892 BR	1.11
PSC 355	1.00
PAYMASTER 1218BG/RR	0.86
SG 215 BR	0.84
ACALA 1517-99	0.84
ALL TEX ATLAS	0.83
DPL 458 BG/RR	0.77
DP 555 R/R	0.66
FIBERMAX 966	0.57
LSD	0.16

MINUS GOSSYPOL	
STV 4892 BR	0.74
ALL TEX ATLAS	0.64
ST 5599BR	0.63
SG 215 BR	0.61
ACALA 1517-99	0.61
PSC 355	0.60
DPL 458 BG/RR	0.59
PAYMASTER 1218BG/RR	0.54
FIBERMAX 966	0.51
DP 555 R/R	0.49
LSD	0.09

TOTAL GOSSYPOL (PERCENT)	
STV 4892 BR	1.85
ST 5599BR	1.77
PSC 355	1.60
ALL TEX ATLAS	1.47
SG 215 BR	1.45
ACALA 1517-99	1.44
PAYMASTER 1218BG/RR	1.40
DPL 458 BG/RR	1.36
DP 555 R/R	1.15
FIBERMAX 966	1.08
LSD	0.22

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
STONEVILLE, MS	1387	5.48	40.8	10.1	136	0.58	22.2	223	7.8
SAINT JOSEPH, LA	1253	4.81	41.2	9.4	131	0.56	20.7	208	7.4
CLARKEDALE, AR	512	4.49	40.1	10.7	136	0.56	21.2	212	7.6

LOCATION	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
STONEVILLE, MS	4.49	1.12	84.1	32.8	8.6	73.9	8.5	4.88	2014	19.75	3.37
SAINT JOSEPH, LA	4.81	1.12	83.5	30.8	8.0	73.3	6.9	4.77	1759	21.03	2.65
CLARKEDALE, AR	3.85	.	.	.	.	.	.	.	785	18.57	3.03

LOCATION	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	AREALOMETER DATA I	AREALOMETER DATA M (%)	AREALOMETER DATA p (microns)	AREALOMETER DATA w (mg/in)	AREALOMETER DATA t (microns)
STONEVILLE, MS	0.83	0.57	1.40	430	23.3	1.62	89	47.61	4.33	2.9
SAINT JOSEPH, LA	0.93	0.62	1.55	411	20.2	1.55	91	47.70	4.53	3.1
CLARKEDALE, AR	0.82	0.59	1.42	493	35.0	1.85	80	47.23	3.73	2.5

SAINT JOSEPH, LA
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1224	DP 555 R/R	1502	4.00	46.4	7.4	126	0.55	19.0	191	7.2
1196	STV 4892 BR	1344	4.80	42.2	9.2	124	0.56	20.2	202	7.2
1158	PSC 355	1344	4.25	41.3	8.9	128	0.57	19.4	195	8.7
1251	ST 5599BR	1343	5.30	42.0	10.0	125	0.57	19.7	197	7.7
1168	PAYMASTER 1218BG/RR	1314	4.95	41.2	10.3	118	0.56	18.2	182	7.7
1152	DPL 458 BG/RR	1271	4.50	41.9	8.2	121	0.56	19.0	191	8.2
1175	FIBERMAX 966	1228	5.35	41.9	10.4	160	0.58	23.8	238	5.6
1232	SG 215 BR	1225	5.00	41.7	9.5	131	0.57	21.2	212	8.0
1128	ACALA 1517-99	1104	4.70	38.3	9.9	148	0.59	24.2	243	6.3
1019	ALL TEX ATLAS	857	5.25	35.8	10.7	133	0.55	22.8	228	7.4
.	LSD	166	0.32	0.8	0.6	5	0.03	1.77	18	1.8

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1224	DP 555 R/R	4.80	1.15	81.6	29.5	7.3	74.5	6.3	4.90	1760	17.34	2.90
1196	STV 4892 BR	5.30	1.10	84.4	29.5	8.0	71.5	6.8	4.95	1805	20.35	2.60
1158	PSC 355	4.85	1.10	84.3	30.5	8.7	73.0	7.1	4.90	1911	22.01	2.70
1251	ST 5599BR	4.95	1.10	83.0	30.5	7.7	71.5	7.4	4.65	1760	23.89	2.40
1168	PAYMASTER 1218BG/RR	4.85	1.10	83.8	27.5	8.1	73.5	7.3	5.05	1779	22.48	2.70
1152	DPL 458 BG/RR	5.00	1.10	82.3	30.5	8.1	75.0	6.8	5.20	1673	18.99	2.40
1175	FIBERMAX 966	4.55	1.15	84.4	35.5	7.6	74.5	6.6	4.50	1696	22.20	2.35
1232	SG 215 BR	5.20	1.10	83.7	28.0	8.6	76.5	7.5	5.00	1894	20.88	2.75
1128	ACALA 1517-99	4.15	1.20	84.6	34.0	8.1	70.0	6.6	4.05	1735	21.38	2.65
1019	ALL TEX ATLAS	4.45	1.10	83.4	32.0	8.2	72.5	6.6	4.50	1573	20.76	3.00
.	LSD	0.33	0.07	1.8	3.0	0.5	1.4	0.8	0.29	324	1.75	0.30

---GOSSYPOL LEVELS--- ----------AREALOMETER DATA----------

VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1224	DP 555 R/R	0.65	0.51	1.15	.	.	.	.	.	.	.
1196	STV 4892 BR	1.24	0.75	1.99	375	19.8	1.54	92	51.80	5.35	3.4
1158	PSC 355	1.15	0.64	1.79	.	.	.	.	.	.	.
1251	ST 5599BR	1.39	0.65	2.03	.	.	.	.	.	.	.
1168	PAYMASTER 1218BG/RR	0.87	0.54	1.40	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.82	0.64	1.46	394	18.0	1.51	93	47.96	4.71	3.3
1175	FIBERMAX 966	0.61	0.55	1.15	.	.	.	.	.	.	.
1232	SG 215 BR	0.88	0.65	1.52	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.89	0.65	1.54	445	19.8	1.55	92	43.62	3.80	2.9
1019	ALL TEX ATLAS	0.81	0.66	1.46	430	23.3	1.63	89	47.42	4.27	2.9
.	LSD	0.08	0.08	0.16	38.4	5.6	0.13	4	3.99	0.80	0.4

STONEVILLE, MS
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1224	DP 555 R/R	1749	4.93	43.6	8.2	125	0.57	19.7	197	8.3
1175	FIBERMAX 966	1519	6.03	41.5	11.1	126	0.56	20.3	204	8.3
1251	ST 5599BR	1517	6.50	41.5	10.9	124	0.56	21.2	213	8.1
1196	STV 4892 BR	1500	5.47	42.3	10.2	147	0.58	23.7	237	7.3
1168	PAYMASTER 1218BG/RR	1465	5.75	41.7	11.1	126	0.56	20.2	202	8.8
1232	SG 215 BR	1386	5.46	40.5	9.9	156	0.57	24.6	246	5.3
1158	PSC 355	1358	5.29	40.9	9.6	113	0.54	19.3	193	8.2
1152	DPL 458 BG/RR	1349	5.05	39.5	9.2	167	0.63	27.1	272	6.3
1128	ACALA 1517-99	1077	5.28	38.7	10.8	128	0.58	21.5	216	8.9
1019	ALL TEX ATLAS	955	5.06	37.8	10.8	153	0.62	24.9	249	8.9
.	LSD	160	0.44	0.8	0.4	13	0.04	2.19	22	1.3

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

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1224	DP 555 R/R	4.70	1.10	83.4	31.0	7.7	76.5	7.6	4.70	2402	17.08	3.40
1175	FIBERMAX 966	4.30	1.20	85.4	38.0	8.2	74.5	7.5	4.75	2110	20.60	3.00
1251	ST 5599BR	5.10	1.10	84.4	32.5	8.2	72.0	9.4	5.05	2153	21.19	3.45
1196	STV 4892 BR	3.90	1.10	84.0	31.0	9.0	73.5	8.8	5.15	1990	19.80	3.25
1168	PAYMASTER 1218BG/RR	4.55	1.10	83.8	30.5	8.5	73.5	8.9	5.20	2033	19.52	3.50
1232	SG 215 BR	4.45	1.05	83.3	30.5	8.9	74.0	8.8	4.75	2219	19.35	3.60
1158	PSC 355	4.40	1.10	85.0	34.0	9.3	73.0	9.1	4.90	1976	20.14	3.10
1152	DPL 458 BG/RR	4.00	1.10	84.6	32.5	8.7	75.0	8.7	4.80	1945	19.22	3.30
1128	ACALA 1517-99	5.20	1.20	84.0	35.0	8.5	72.5	8.3	4.50	1831	19.45	3.65
1019	ALL TEX ATLAS	4.25	1.10	83.1	32.5	8.9	74.5	8.2	4.95	1484	21.19	3.40
.	LSD	0.32	0.05	1.5	2.3	0.4	4.1	0.5	0.34	329	1.69	0.33

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1224	DP 555 R/R	0.69	0.50	1.18	419	24.8	1.66	87	49.64	4.59	3.0
1175	FIBERMAX 966	0.56	0.51	1.06	434	26.3	1.69	86	48.70	4.34	2.9
1251	ST 5599BR	1.05	0.61	1.65	.	.	.	.	.	.	.
1196	STV 4892 BR	1.08	0.72	1.79	471	26.0	1.68	87	44.83	3.68	2.6
1168	PAYMASTER 1218BG/RR	0.77	0.46	1.23	410	26.5	1.69	86	51.73	4.88	3.0
1232	SG 215 BR	0.91	0.66	1.57	.	.	.	.	.	.	.
1158	PSC 355	0.87	0.52	1.39	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.80	0.61	1.41	461	20.0	1.55	92	42.38	3.57	2.7
1128	ACALA 1517-99	0.74	0.52	1.26	369	19.0	1.53	93	52.02	5.46	3.5
1019	ALL TEX ATLAS	0.86	0.65	1.51	447	20.5	1.56	91	44.02	3.82	2.8
.	LSD	0.09	0.09	0.16	30.1	7.0	0.14	6	3.65	0.43	0.2

CLARKEDALE, AR
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1196	STV 4892 BR	677	4.29	41.3	10.5	128	0.56	20.9	209	7.5
1168	PAYMASTER 1218BG/RR	646	5.08	41.9	11.7	127	0.54	19.4	194	7.0
1232	SG 215 BR	632	4.82	40.1	10.2	153	0.59	21.7	218	7.3
1251	ST 5599BR	617	5.16	41.2	11.0	135	0.54	20.0	200	7.5
1128	ACALA 1517-99	508	4.29	39.4	11.3	150	0.61	25.2	252	7.2
1224	DP 555 R/R	496	3.80	43.1	8.2	128	0.55	19.5	196	8.0
1175	FIBERMAX 966	487	5.49	40.4	12.2	153	0.59	23.4	235	6.4
1158	PSC 355	484	4.15	39.7	10.9	128	0.57	19.6	196	8.9
1152	DPL 458 BG/RR	395	4.00	39.3	9.5	126	0.57	20.8	208	8.2
1019	ALL TEX ATLAS	173	3.80	34.8	11.7	129	0.54	21.3	213	7.9
.	LSD	168	0.85	2.2	0.9	20	0.02	3.28	33	1.8

VARIETY CODE	VARIETY NAME	MICRONAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFOMITY (%)	STRENGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITROGEN (%)
1196	STV 4892 BR	3.80	.	.	.	.	.	.	.	1041	17.32	3.10
1168	PAYMASTER 1218BG/RR	3.75	.	.	.	.	.	.	.	1141	19.54	3.15
1232	SG 215 BR	3.70	.	.	.	.	.	.	.	881	18.07	2.85
1251	ST 5599BR	3.60	.	.	.	.	.	.	.	938	18.17	3.10
1128	ACALA 1517-99	3.65	.	.	.	.	.	.	.	775	20.25	3.00
1224	DP 555 R/R	3.70	.	.	.	.	.	.	.	718	19.14	2.70
1175	FIBERMAX 966	3.85	.	.	.	.	.	.	.	668	18.40	3.25
1158	PSC 355	4.45	.	.	.	.	.	.	.	834	19.51	2.95
1152	DPL 458 BG/RR	3.50	.	.	.	.	.	.	.	590	17.73	3.10
1019	ALL TEX ATLAS	4.50	.	.	.	.	.	.	.	269	17.61	3.05
.	LSD	0.74	.	.	.	.	.	.	.	382	1.70	0.75

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	AREALOMETER DATA I	AREALOMETER DATA M (%)	AREALOMETER DATA p (microns)	AREALOMETER DATA w (mg/in)	AREALOMETER DATA t (microns)
1196	STV 4892 BR	1.02	0.75	1.77	518	43.0	2.00	74	48.67	3.65	2.3

1168	PAYMASTER 1218BG/RR	0.95	0.62	1.57	.	.	.	.	.	.	.
1232	SG 215 BR	0.73	0.52	1.25	.	.	.	.	.	.	.
1251	ST 5599BR	1.00	0.63	1.63	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.88	0.65	1.53	487	29.5	1.75	84	45.23	3.60	2.5
1224	DP 555 R/R	0.65	0.48	1.13	.	.	.	.	.	.	.
1175	FIBERMAX 966	0.55	0.47	1.02	.	.	.	.	.	.	.
1158	PSC 355	0.99	0.66	1.64	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.68	0.53	1.21	522	41.3	1.97	75	47.45	3.55	2.3
1019	ALL TEX ATLAS	0.82	0.61	1.43	445	26.3	1.69	86	47.56	4.13	2.8
.	LSD	0.21	0.21	0.36	111	20.3	0.37	14	3.40	0.94	0.6

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2003 National Cotton Variety Test

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National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

2003 CENTRAL REGIONAL COTTON VARIETY TEST

CENTRAL
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1094	DPL NuCotn 33B	1545	4.73	40.0	8.9	118	0.54	19.2	192	7.6
1196	STV 4892 BR	1516	5.01	43.4	10.0	123	0.54	20.4	205	7.1
1232	SG 215 BR	1455	5.18	41.5	9.6	113	0.54	18.6	187	8.3
1158	PSC 355	1433	4.76	41.8	9.7	128	0.55	21.0	211	7.6
1231	STV 4691 B	1410	5.00	42.8	9.7	118	0.54	19.8	199	7.7
1168	PAYMASTER 1218BG/RR	1402	5.36	40.9	10.5	126	0.55	20.6	207	6.7
1152	DPL 458 BG/RR	1376	4.64	40.9	8.3	130	0.56	21.4	215	7.6
1117	FIBERMAX 832	1291	5.85	40.1	10.4	138	0.56	21.9	219	6.5
1128	ACALA 1517-99	1027	5.01	39.9	10.8	130	0.55	19.5	195	7.8
1019	ALL TEX ATLAS	975	5.78	38.1	11.0	130	0.54	21.2	212	7.3

. LSD	221	0.33	2.1	0.6	24	0.02	3.32	33	1.2	

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1094	DPL NuCotn 33B	5.13	1.10	82.4	28.0	7.9	73.6	7.2	4.94	2346	19.01	3.00
1196	STV 4892 BR	5.24	1.08	83.0	29.3	8.2	67.7	6.9	5.18	1929	19.00	3.18
1232	SG 215 BR	5.28	1.03	83.0	26.8	8.4	71.0	7.4	4.97	1951	17.97	3.03
1158	PSC 355	4.96	1.10	83.7	31.2	9.0	67.0	7.3	5.10	2044	20.49	3.15
1231	STV 4691 B	5.16	1.08	82.8	28.1	7.9	69.1	7.7	5.04	1861	18.16	3.03
1168	PAYMASTER 1218BG/RR	5.03	1.06	83.0	27.9	8.1	70.3	7.8	5.24	1994	19.56	3.17
1152	DPL 458 BG/RR	5.03	1.10	82.3	29.3	8.1	71.7	7.0	5.10	2011	18.46	2.77
1117	FIBERMAX 832	4.84	1.20	84.5	33.5	7.9	71.5	7.1	4.63	1932	19.65	3.03
1128	ACALA 1517-99	4.70	1.18	83.7	35.0	8.3	67.5	7.1	4.38	1574	20.88	3.15
1019	ALL TEX ATLAS	4.75	1.07	82.9	32.0	8.5	68.0	7.3	4.90	1585	19.69	2.95
.	LSD	0.38	0.04	0.8	1.9	0.3	2.1	0.6	0.32	384	1.54	0.32

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1094	DPL NuCotn 33B	0.77	0.56	1.34	397	18.9	1.52	92	48.29	4.71	3.2
1196	STV 4892 BR	1.02	0.66	1.67	383	19.0	1.53	92	50.05	5.07	3.3
1232	SG 215 BR	0.74	0.51	1.25	.	.	.	.	.	.	.
1158	PSC 355	1.01	0.60	1.61	.	.	.	.	.	.	.
1231	STV 4691 B	1.06	0.68	1.75	.	.	.	.	.	.	.
1168	PAYMASTER 1218BG/RR	0.77	0.46	1.23	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.83	0.62	1.46	406	17.9	1.50	93	46.69	4.52	3.2
1117	FIBERMAX 832	0.64	0.52	1.15	379	18.5	1.52	93	50.28	5.13	3.4
1128	ACALA 1517-99	0.82	0.58	1.40	423	16.4	1.46	95	43.26	3.95	3.1
1019	ALL TEX ATLAS	0.84	0.62	1.47	415	22.1	1.59	90	48.40	4.56	3.1
.	LSD	0.13	0.08	0.20	36.2	3.8	0.09	3	4.63	0.69	0.2

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL	
FIBERMAX 832	5.85
ALL TEX ATLAS	5.78
PAYMASTER 1218BG/RR	5.36
SG 215 BR	5.18
ACALA 1517-99	5.01
STV 4892 BR	5.01
STV 4691 B	5.00
PSC 355	4.76
DPL NuCotn 33B	4.73
DPL 458 BG/RR	4.64
LSD	0.33

LINT PERCENT	
STV 4892 BR	43.4
STV 4691 B	42.8
PSC 355	41.8
SG 215 BR	41.5
DPL 458 BG/RR	40.9
PAYMASTER 1218BG/RR	40.9
FIBERMAX 832	40.1
DPL NuCotn 33B	40.0
ACALA 1517-99	39.9
ALL TEX ATLAS	38.1
LSD	2.1

SEED INDEX	
ALL TEX ATLAS	11.0
ACALA 1517-99	10.8
PAYMASTER 1218BG/RR	10.5
FIBERMAX 832	10.4
STV 4892 BR	10.0
STV 4691 B	9.7
PSC 355	9.7
SG 215 BR	9.6
DPL NuCotn 33B	8.9
DPL 458 BG/RR	8.3
LSD	0.6

2.5% S.L. (INCHES)	
FIBERMAX 832	1.20
ACALA 1517-99	1.18
PSC 355	1.10
DPL NuCotn 33B	1.10
DPL 458 BG/RR	1.10
STV 4892 BR	1.08
STV 4691 B	1.08
ALL TEX ATLAS	1.07
PAYMASTER 1218BG/RR	1.06
SG 215 BR	1.03
LSD	0.04

UR (PERCENT)	
FIBERMAX 832	84.5
ACALA 1517-99	83.7
PSC 355	83.7
STV 4892 BR	83.0
PAYMASTER 1218BG/RR	83.0
SG 215 BR	83.0
ALL TEX ATLAS	82.9
STV 4691 B	82.8
DPL NuCotn 33B	82.4
DPL 458 BG/RR	82.3
LSD	0.8

STRENGTH (G/TEX)	
ACALA 1517-99	35.0
FIBERMAX 832	33.5
ALL TEX ATLAS	32.0
PSC 355	31.2
STV 4892 BR	29.3
DPL 458 BG/RR	29.3
STV 4691 B	28.1
DPL NuCotn 33B	28.0
PAYMASTER 1218BG/RR	27.9
SG 215 BR	26.8
LSD	1.9

E	
PSC 355	9.0
ALL TEX ATLAS	8.5
SG 215 BR	8.4
ACALA 1517-99	8.3
STV 4892 BR	8.2

MICRONAIRE (SL-HVI)	
PAYMASTER 1218BG/RR	5.24
STV 4892 BR	5.18
PSC 355	5.10
DPL 458 BG/RR	5.10
STV 4691 B	5.04

COLORIMETER - Rd	
DPL NuCotn 33B	73.6
DPL 458 BG/RR	71.7
FIBERMAX 832	71.5
SG 215 BR	71.0
PAYMASTER 1218BG/RR	70.3

PAYMASTER 1218BG/RR	8.1	SG 215 BR	4.97	STV 4691 B	69.1
DPL 458 BG/RR	8.1	DPL NuCotn 33B	4.94	ALL TEX ATLAS	68.0
FIBERMAX 832	7.9	ALL TEX ATLAS	4.90	STV 4892 BR	67.7
STV 4691 B	7.9	FIBERMAX 832	4.63	ACALA 1517-99	67.5
DPL NuCotn 33B	7.9	ACALA 1517-99	4.38	PSC 355	67.0
LSD	0.3	LSD	0.32	LSD	2.1

COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
PAYMASTER 1218BG/RR	7.8	SG 215 BR	5.28	SG 215 BR	8.3
STV 4691 B	7.7	STV 4892 BR	5.24	ACALA 1517-99	7.8
SG 215 BR	7.4	STV 4691 B	5.16	STV 4691 B	7.7
PSC 355	7.3	DPL NuCotn 33B	5.13	PSC 355	7.6
ALL TEX ATLAS	7.3	PAYMASTER 1218BG/RR	5.03	DPL 458 BG/RR	7.6
DPL NuCotn 33B	7.2	DPL 458 BG/RR	5.03	DPL NuCotn 33B	7.6
FIBERMAX 832	7.1	PSC 355	4.96	ALL TEX ATLAS	7.3
ACALA 1517-99	7.1	FIBERMAX 832	4.84	STV 4892 BR	7.1
DPL 458 BG/RR	7.0	ALL TEX ATLAS	4.75	PAYMASTER 1218BG/RR	6.7
STV 4892 BR	6.9	ACALA 1517-99	4.70	FIBERMAX 832	6.5
LSD	0.6	LSD	0.38	LSD	1.2

STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
FIBERMAX 832	219	FIBERMAX 832	21.9	FIBERMAX 832	0.56
DPL 458 BG/RR	215	DPL 458 BG/RR	21.4	DPL 458 BG/RR	0.56
ALL TEX ATLAS	212	ALL TEX ATLAS	21.2	PAYMASTER 1218BG/RR	0.55
PSC 355	211	PSC 355	21.0	PSC 355	0.55
PAYMASTER 1218BG/RR	207	PAYMASTER 1218BG/RR	20.6	ACALA 1517-99	0.55
STV 4892 BR	205	STV 4892 BR	20.4	STV 4892 BR	0.54
STV 4691 B	199	STV 4691 B	19.8	STV 4691 B	0.54
ACALA 1517-99	195	ACALA 1517-99	19.5	DPL NuCotn 33B	0.54
DPL NuCotn 33B	192	DPL NuCotn 33B	19.2	ALL TEX ATLAS	0.54
SG 215 BR	187	SG 215 BR	18.6	SG 215 BR	0.54
LSD	33	LSD	3.32	LSD	0.02

YARN TENACITY	
FIBERMAX 832	138
ALL TEX ATLAS	130
DPL 458 BG/RR	130
ACALA 1517-99	130
PSC 355	128
PAYMASTER 1218BG/RR	126
STV 4892 BR	123
DPL NuCotn 33B	118
STV 4691 B	118
SG 215 BR	113
LSD	24

AREALOMETER - A (mm2/mm3)	
ACALA 1517-99	423
ALL TEX ATLAS	415
DPL 458 BG/RR	406
DPL NuCotn 33B	397
STV 4892 BR	383
FIBERMAX 832	379
PSC 355	.
PAYMASTER 1218BG/RR	.
STV 4691 B	.
SG 215 BR	.
LSD	36.2

AREALOMETER - D (mm2/mm3)	
ALL TEX ATLAS	22.1
STV 4892 BR	19.0
DPL NuCotn 33B	18.9
FIBERMAX 832	18.5
DPL 458 BG/RR	17.9
ACALA 1517-99	16.4
PSC 355	.
PAYMASTER 1218BG/RR	.
STV 4691 B	.
SG 215 BR	.
LSD	3.8

AREALOMETER - I	
ALL TEX ATLAS	1.59
STV 4892 BR	1.53
DPL NuCotn 33B	1.52
FIBERMAX 832	1.52
DPL 458 BG/RR	1.50
ACALA 1517-99	1.46
PSC 355	.
PAYMASTER 1218BG/RR	.
STV 4691 B	.
SG 215 BR	.
LSD	0.09

AREALOMETER - M (PERCENT)	
ACALA 1517-99	95
DPL 458 BG/RR	93
FIBERMAX 832	93
STV 4892 BR	92
DPL NuCotn 33B	92
ALL TEX ATLAS	90
PSC 355	.
PAYMASTER 1218BG/RR	.
STV 4691 B	.
SG 215 BR	.
LSD	3

AREALOMETER - p (Microns)	
FIBERMAX 832	50.28
STV 4892 BR	50.05
ALL TEX ATLAS	48.40
DPL NuCotn 33B	48.29
DPL 458 BG/RR	46.69
ACALA 1517-99	43.26
PSC 355	.
PAYMASTER 1218BG/RR	.
STV 4691 B	.
SG 215 BR	.
LSD	4.63

AREALOMETER - w (MG/INCH)	
FIBERMAX 832	5.13
STV 4892 BR	5.07
DPL NuCotn 33B	4.71
ALL TEX ATLAS	4.56
DPL 458 BG/RR	4.52
ACALA 1517-99	3.95

AREALOMETER - t (MICRONS)	
FIBERMAX 832	3.4
STV 4892 BR	3.3
DPL NuCotn 33B	3.2
DPL 458 BG/RR	3.2
ACALA 1517-99	3.1
ALL TEX ATLAS	3.1

SEED YIELD (LB/ACRE)	
DPL NuCotn 33B	2346
PSC 355	2044
DPL 458 BG/RR	2011
PAYMASTER 1218BG/RR	1994
SG 215 BR	1951
FIBERMAX 832	1932

PSC 355	.
PAYMASTER 1218BG/RR	.
STV 4691 B	.
SG 215 BR	.
LSD	0.69

PSC 355	.
PAYMASTER 1218BG/RR	.
STV 4691 B	.
SG 215 BR	.
LSD	0.2

STV 4892 BR	1929
STV 4691 B	1861
ALL TEX ATLAS	1585
ACALA 1517-99	1574
LSD	384

OIL (PERCENT)	
ACALA 1517-99	20.88
PSC 355	20.49
ALL TEX ATLAS	19.69
FIBERMAX 832	19.65
PAYMASTER 1218BG/RR	19.56
DPL NuCotn 33B	19.01
STV 4892 BR	19.00
DPL 458 BG/RR	18.46
STV 4691 B	18.16
SG 215 BR	17.97
LSD	1.54

NITROGEN (PERCENT)	
STV 4892 BR	3.18
PAYMASTER 1218BG/RR	3.17
ACALA 1517-99	3.15
PSC 355	3.15
FIBERMAX 832	3.03
SG 215 BR	3.03
STV 4691 B	3.03
DPL NuCotn 33B	3.00
ALL TEX ATLAS	2.95
DPL 458 BG/RR	2.77
LSD	0.32

PLUS GOSSYPOL	
STV 4691 B	1.06
STV 4892 BR	1.02
PSC 355	1.01
ALL TEX ATLAS	0.84
DPL 458 BG/RR	0.83
ACALA 1517-99	0.82
DPL NuCotn 33B	0.77
PAYMASTER 1218BG/RR	0.77
SG 215 BR	0.74
FIBERMAX 832	0.64
LSD	0.13

MINUS GOSSYPOL	
STV 4691 B	0.68
STV 4892 BR	0.66
DPL 458 BG/RR	0.62
ALL TEX ATLAS	0.62
PSC 355	0.60
ACALA 1517-99	0.58
DPL NuCotn 33B	0.56
FIBERMAX 832	0.52
SG 215 BR	0.51
PAYMASTER 1218BG/RR	0.46
LSD	0.08

TOTAL GOSSYPOL (PERCENT)	
STV 4691 B	1.75
STV 4892 BR	1.67
PSC 355	1.61
ALL TEX ATLAS	1.47
DPL 458 BG/RR	1.46
ACALA 1517-99	1.40
DPL NuCotn 33B	1.34
SG 215 BR	1.25
PAYMASTER 1218BG/RR	1.23
FIBERMAX 832	1.15
LSD	0.20

CENTRAL
LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
BEEVILLE, TX	1647	5.64	41.0	10.9	130	0.54	20.9	209	7.6
BOSSIER CITY, LA	1340	5.31	41.0	10.1	125	0.56	20.4	205	7.6
WESLACO, TX	1207	4.78	40.2	9.5	128	0.54	20.7	207	7.0
COLLEGE STATION, TX	1178	4.81	41.5	9.1	119	0.55	19.4	195	7.4

LOCATION	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
BEEVILLE, TX	4.97	1.12	83.6	29.5	8.2	69.1	7.6	5.02	2362	18.04	3.49
BOSSIER CITY, LA	5.20	1.09	83.3	31.7	8.4	71.6	7.3	5.15	1874	19.28	3.32
WESLACO, TX	4.91	1.10	83.1	29.8	8.0	72.5	8.7	5.15	1788	18.75	3.19
COLLEGE STATION, TX	4.97	1.10	82.5	29.1	8.0	68.1	6.4	4.60	1667	20.35	2.42

LOCATION	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	AREALOMETER DATA I	AREALOMETER DATA M (%)	AREALOMETER DATA p (microns)	AREALOMETER DATA w (mg/in)	AREALOMETER DATA t (microns)
BEEVILLE, TX	0.79	0.55	1.33	411	19.8	1.55	92	47.43	4.51	3.1
BOSSIER CITY, LA	0.76	0.53	1.29	375	14.1	1.41	96	47.29	4.90	3.5
WESLACO, TX	0.88	0.62	1.50	415	20.0	1.55	91	46.90	4.40	3.1
COLLEGE STATION, TX	0.99	0.65	1.64	402	21.9	1.59	90	49.76	4.81	3.1

COLLEGE STATION, TX
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1094	DPL NuCotn 33B	1369	4.50	40.1	8.8	113	0.55	17.4	176	7.9
1168	PAYMASTER 1218BG/RR	1313	5.00	43.2	9.7	110	0.54	19.6	197	6.3
1158	PSC 355	1287	4.95	42.1	9.4	117	0.56	19.6	196	8.7
1232	SG 215 BR	1253	4.85	40.9	9.1	101	0.55	17.9	180	8.8
1117	FIBERMAX 832	1225	5.60	41.7	8.6	155	0.57	24.1	242	5.2
1231	STV 4691 B	1181	4.35	41.5	9.0	111	0.54	18.6	187	7.2
1152	DPL 458 BG/RR	1170	4.00	42.3	7.5	105	0.55	18.0	181	7.7
1196	STV 4892 BR	1137	4.70	41.9	9.6	119	0.55	18.5	186	7.3
1128	ACALA 1517-99	974	4.35	43.4	9.3	140	0.56	20.8	209	7.6
1019	ALL TEX ATLAS	875	5.75	38.2	10.5	116	0.54	19.9	199	8.0
.	LSD	173	0.68	3.0	1.3	10	0.03	1.31	13	1.0

VARIETY CODE	VARIETY NAME	MICRONAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFOMITY (%)	STRENGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITROGEN (%)
1094	DPL NuCotn 33B	5.20	1.10	81.3	25.5	7.5	72.0	5.9	4.55	2116	20.45	2.35
1168	PAYMASTER 1218BG/RR	5.25	1.05	82.4	27.5	8.0	68.0	7.4	5.05	1629	21.48	2.50
1158	PSC 355	4.80	1.10	83.6	29.5	8.9	67.0	6.6	4.85	2015	21.17	2.55
1232	SG 215 BR	5.05	1.05	82.4	24.0	7.8	71.0	6.5	4.45	1716	19.30	2.55
1117	FIBERMAX 832	4.40	1.20	84.1	32.5	7.8	69.5	5.9	4.10	1684	19.93	2.45
1231	STV 4691 B	5.20	1.05	82.6	28.0	7.8	66.0	6.2	4.60	1733	20.22	2.25
1152	DPL 458 BG/RR	5.15	1.05	81.6	29.5	7.7	69.5	6.8	4.65	1463	19.26	2.15
1196	STV 4892 BR	5.35	1.10	82.5	29.5	8.0	66.0	5.5	4.55	1524	19.27	2.20
1128	ACALA 1517-99	4.60	1.15	82.0	33.0	8.1	65.0	6.5	4.35	1297	22.22	2.45
1019	ALL TEX ATLAS	4.70	1.10	82.4	31.5	8.6	66.5	7.0	4.85	1492	20.24	2.70
.	LSD	0.39	0.11	1.8	2.4	0.5	3.5	1.0	0.46	390	1.98	0.42

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS	GOSSYPOL LEVELS MINUS	GOSSYPOL LEVELS TOTAL	AREALOMETER DATA A	D	M	p	w	t

CODE	NAME	(+)	(-)	(%)	---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
1094	DPL NuCotn 33B	0.79	0.58	1.37	.	.	.	.	.	.	.
1168	PAYMASTER 1218BG/RR	0.95	0.54	1.49	.	.	.	.	.	.	.
1158	PSC 355	1.12	0.64	1.75	.	.	.	.	.	.	.
1232	SG 215 BR	0.87	0.57	1.44	.	.	.	.	.	.	.
1117	FIBERMAX 832	0.85	0.62	1.47	.	.	.	.	.	.	.
1231	STV 4691 B	1.33	0.84	2.17	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.89	0.65	1.54	386	18.3	1.51	93	49.17	4.93	3.3
1196	STV 4892 BR	1.27	0.77	2.04	379	21.8	1.59	90	52.72	5.38	3.3
1128	ACALA 1517-99	0.96	0.66	1.62	440	21.8	1.59	90	45.38	3.99	2.9
1019	ALL TEX ATLAS	0.91	0.66	1.57	406	25.8	1.68	87	51.77	4.95	3.1
.	LSD	0.24	0.24	0.37	55.7	11.5	0.25	9	5.73	0.82	0.6

WESLACO, TX
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1196	STV 4892 BR	1500	4.70	42.6	9.5	115	0.53	20.0	201	6.4
1232	SG 215 BR	1419	4.85	40.7	9.4	116	0.53	18.0	181	6.9
1158	PSC 355	1337	4.40	41.8	9.1	119	0.51	19.0	190	6.4
1231	STV 4691 B	1323	4.80	43.9	9.6	128	0.53	21.7	217	8.0
1152	DPL 458 BG/RR	1237	4.50	39.7	8.0	137	0.54	22.6	228	7.4
1094	DPL NuCotn 33B	1214	4.15	40.9	7.9	123	0.53	19.4	194	6.7
1168	PAYMASTER 1218BG/RR	1129	4.85	36.7	10.0	164	0.58	23.9	240	6.3
1117	FIBERMAX 832	1085	5.50	38.5	10.4	119	0.54	20.7	207	7.8
1128	ACALA 1517-99	1002	4.75	39.0	10.9	118	0.54	17.7	178	7.4
1019	ALL TEX ATLAS	824	5.25	38.8	10.3	148	0.55	24.0	241	6.7
.	LSD	360	0.55	4.9	0.7	9	0.03	1.45	14	1.0

	MICRO-	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5%	UNIFO-	STRE-	COLORIMETER	MICRO-	SEED	NITR

VARIETY CODE	VARIETY NAME	NAIRE (reading)	S.L. (in.)	MITY (%)	NGTH (g/tex)	HUNTER'S E	Rd	b	NAIRE (Reading)	YIELD (lb/ac)	OIL (%)	OGEN (%)
1196	STV 4892 BR	5.05	.	.	.	.	.	.	.	2023	19.62	3.50
1232	SG 215 BR	5.50	.	.	.	.	.	.	.	2070	.	.
1158	PSC 355	4.90	.	.	.	.	.	.	.	1871	.	.
1231	STV 4691 B	4.85	1.05	82.5	28.0	7.7	70.0	8.7	5.40	1699	.	.
1152	DPL 458 BG/RR	5.05	.	.	.	.	.	.	.	1884	16.72	2.80
1094	DPL NuCotn 33B	5.10	1.10	82.5	28.0	7.9	74.5	8.9	5.15	1758	.	.
1168	PAYMASTER 1218BG/RR	4.55	1.05	82.9	28.0	8.3	72.5	9.1	5.35	1968	.	.
1117	FIBERMAX 832	4.50	1.20	84.6	35.0	8.1	73.0	8.2	4.70	1731	.	.
1128	ACALA 1517-99	4.85	.	.	.	.	.	.	.	1574	19.42	3.40
1019	ALL TEX ATLAS	4.70	.	.	.	.	.	.	.	1301	19.23	3.05
.	LSD	0.90	0.22	4.5	4.3	0.9	6.0	2.4	0.80	652	3.77	0.46

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	1.00	0.64	1.64	400	19.3	1.53	92	47.98	4.63	3.2
1232	SG 215 BR	.	.	.	.	.	.	.	.	.	.
1158	PSC 355	.	.	.	.	.	.	.	.	.	.
1231	STV 4691 B	.	.	.	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.82	0.62	1.44	413	20.8	1.57	91	47.84	4.51	3.0
1094	DPL NuCotn 33B	.	.	.	392	17.8	1.50	93	48.10	4.77	3.3
1168	PAYMASTER 1218BG/RR	.	.	.	.	.	.	.	.	.	.
1117	FIBERMAX 832	.	.	.	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.84	0.60	1.44	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	0.88	0.63	1.50	458	22.3	1.60	90	43.70	3.70	2.8
.	LSD	0.10	0.10	0.20	43.0	11.7	0.25	11	9.32	1.34	0.2

BOSSIER CITY, LA
VARIETIES BY LOCATIONS

VARIETY	VARIETY	LINT YIELD	BOLL SIZE	LINT	SEED	YARN TENACITY	DIGITAL FIBROGRAPH 2.5% S.L.	50% S.L.	STELOMETER T1	E1

CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
1232	SG 215 BR	1584	5.40	42.3	9.4	106	0.53	17.4	174	8.7
1152	DPL 458 BG/RR	1506	4.80	40.7	8.2	124	0.57	20.3	204	8.2
1196	STV 4892 BR	1449	5.05	44.2	9.8	124	0.56	20.1	201	7.0
1158	PSC 355	1443	5.00	42.4	10.0	120	0.56	20.4	205	9.0
1168	PAYMASTER 1218BG/RR	1431	5.55	41.6	10.6	109	0.55	18.7	188	6.7
1094	DPL NuCotn 33B	1324	4.85	40.0	9.2	116	0.56	20.2	202	7.7
1231	STV 4691 B	1313	5.15	42.7	10.0	115	0.55	19.6	196	7.7
1117	FIBERMAX 832	1304	6.00	40.4	11.0	153	0.59	23.1	231	6.0
1128	ACALA 1517-99	1045	5.45	37.7	11.1	157	0.58	23.8	239	7.4
1019	ALL TEX ATLAS	1007	5.85	38.4	11.4	130	0.55	20.8	209	8.1
.	LSD	224	0.36	1.3	0.5	6	0.02	1.49	15	0.6

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)								
		MICRO-	2.5%	UNIFO-	STRE-	COLORIMETER			MICRO-	SEED	NITR
VARIETY	VARIETY	NAIRE	S.L.	MITY	NGTH		HUNTER'S		NAIRE	YIELD	OIL	OGEN
CODE	NAME	(reading)	(in.)	(%)	(g/tex)	E	Rd	b	(Reading)	(lb/ac)	(%)	(%)
1232	SG 215 BR	5.35	1.00	82.9	29.5	8.6	73.0	7.7	5.25	1878	17.94	3.15
1152	DPL 458 BG/RR	5.40	1.10	82.4	29.5	8.3	73.0	6.8	5.35	2387	19.40	3.35
1196	STV 4892 BR	5.50	1.05	82.6	30.0	8.3	69.0	7.7	5.45	1738	19.86	3.45
1158	PSC 355	5.35	1.10	83.7	32.0	9.2	69.0	7.4	5.40	1895	20.44	3.25
1168	PAYMASTER 1218BG/RR	5.30	1.05	83.8	29.0	8.1	69.5	7.1	5.20	1976	18.19	3.55
1094	DPL NuCotn 33B	5.10	1.10	82.4	30.5	7.9	75.0	6.8	5.15	1939	19.40	3.25
1231	STV 4691 B	5.40	1.10	83.2	29.5	8.0	71.0	7.8	5.05	1634	17.32	3.30
1117	FIBERMAX 832	5.00	1.20	84.8	34.0	7.9	74.0	6.9	5.05	1992	19.64	3.20
1128	ACALA 1517-99	4.55	1.20	84.7	38.5	8.7	71.5	7.2	4.45	1773	21.01	3.60
1019	ALL TEX ATLAS	5.05	1.00	82.8	34.5	8.7	70.5	7.3	5.15	1527	19.61	3.10
.	LSD	0.23	0.07	1.3	2.1	0.5	5.0	0.8	0.33	356	2.11	0.19

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY	VARIETY	PLUS	MINUS	TOTAL	A	D		M	p	w	t
CODE	NAME	(+)	(-)	(%)	---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
1232	SG 215 BR	0.67	0.47	1.14	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.79	0.60	1.39	360	12.5	1.37	98	47.84	5.14	3.7
1196	STV 4892 BR	0.92	0.61	1.53	354	14.5	1.42	96	50.44	5.51	3.7

1158	PSC 355	0.96	0.59	1.55	.	.	.	.	.	.	.
1168	PAYMASTER 1218BG/RR	0.68	0.42	1.10	.	.	.	.	.	.	.
1094	DPL NuCotn 33B	0.75	0.54	1.29	.	.	.	.	.	.	.
1231	STV 4691 B	0.88	0.54	1.42	.	.	.	.	.	.	.
1117	FIBERMAX 832	0.52	0.47	0.98	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.67	0.49	1.16	407	11.0	1.34	99	41.15	3.92	3.3
1019	ALL TEX ATLAS	0.75	0.59	1.34	381	18.3	1.51	93	49.73	5.04	3.4
.	LSD	0.10	0.10	0.16	20.8	6.5	0.15	6	3.78	0.20	0.4

BEEVILLE, TX
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1094	DPL NuCotn 33B	2274	5.40	38.9	10.0	120	0.52	19.8	198	8.0
1196	STV 4892 BR	1980	5.60	44.8	11.0	136	0.54	23.1	231	7.9
1231	STV 4691 B	1825	5.70	43.4	10.4	117	0.55	19.4	195	7.9
1168	PAYMASTER 1218BG/RR	1734	6.05	41.9	11.6	123	0.55	20.3	203	7.6
1158	PSC 355	1666	4.70	41.0	10.4	157	0.56	25.1	252	6.4
1152	DPL 458 BG/RR	1592	5.25	40.9	9.6	155	0.57	24.9	249	7.1
1232	SG 215 BR	1565	5.60	42.3	10.5	131	0.54	21.2	213	8.8
1117	FIBERMAX 832	1551	6.30	40.0	11.6	126	0.54	19.8	198	6.9
1019	ALL TEX ATLAS	1194	6.25	37.2	12.0	128	0.51	20.1	201	6.6
1128	ACALA 1517-99	1088	5.50	39.7	12.0	106	0.51	15.7	157	8.7
.	LSD	642	0.44	1.5	0.7	5	0.02	2.41	24	0.7

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1094	DPL NuCotn 33B	5.10	1.10	83.3	28.0	8.1	73.0	7.3	4.90	3571	17.19	3.40
1196	STV 4892 BR	5.05	1.10	83.8	28.5	8.3	68.0	7.5	5.55	2430	17.23	3.55
1231	STV 4691 B	5.20	1.10	82.8	27.0	8.0	69.5	8.1	5.10	2379	16.93	3.55

1168	PAYMASTER 1218BG/RR	5.00	1.10	82.8	27.0	7.9	71.0	7.7	5.35	2404	19.01	3.45
1158	PSC 355	4.80	1.10	84.0	32.0	9.0	65.0	7.9	5.05	2394	19.85	3.65
1152	DPL 458 BG/RR	4.50	1.15	83.1	29.0	8.2	72.5	7.5	5.30	2310	.	.
1232	SG 215 BR	5.20	1.05	83.6	27.0	8.7	69.0	8.0	5.20	2141	16.68	3.40
1117	FIBERMAX 832	5.45	1.20	84.6	32.5	7.8	69.5	7.4	4.65	2321	19.39	3.45
1019	ALL TEX ATLAS	4.55	1.10	83.6	30.0	8.2	67.0	7.6	4.70	2022	.	.
1128	ACALA 1517-99	4.80	1.20	84.6	33.5	8.2	66.0	7.5	4.35	1653	.	.
.	LSD	1.19	0.09	1.6	1.8	0.6	3.7	0.7	0.31	840	1.78	0.51

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1094	DPL NuCotn 33B	0.78	0.57	1.35	402	20.0	1.55	91	48.48	4.66	3.1
1196	STV 4892 BR	0.88	0.60	1.48	400	20.5	1.57	91	49.06	4.75	3.1
1231	STV 4691 B	0.99	0.67	1.66	.	.	.	.	.	.	.
1168	PAYMASTER 1218BG/RR	0.69	0.43	1.12	.	.	.	.	.	.	.
1158	PSC 355	0.95	0.59	1.54	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	.	.	.	465	20.0	1.55	92	41.91	3.49	2.7
1232	SG 215 BR	0.67	0.50	1.17	.	.	.	.	.	.	.
1117	FIBERMAX 832	0.55	0.47	1.01	379	18.5	1.52	93	50.28	5.13	3.4
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.	.
1128	ACALA 1517-99	.	.	.	.	.	.	.	.	.	.
.	LSD	0.12	0.12	0.20	49.9	2.3	0.07	2	6.95	1.24	0.5

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National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

2003 BLACKLANDS REGIONAL COTTON VARIETY TEST

BLACKLAND
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1232	SG 215 BR	832	4.50	42.2	9.1	126	0.53	22.3	223	6.9
1158	PSC 355	745	4.20	42.0	9.3	115	0.54	19.6	197	7.6
1196	STV 4892 BR	682	4.33	42.9	9.6	122	0.55	21.5	215	7.9
1169	FIBERMAX 958	625	4.85	42.0	10.4	158	0.57	26.9	270	6.7
1128	ACALA 1517-99	570	4.43	39.6	10.7	116	0.55	20.2	203	8.2
1152	DPL 458 BG/RR	559	4.28	40.3	8.8	118	0.55	18.9	190	7.8
1019	ALL TEX ATLAS	293	4.48	37.6	10.6	124	0.53	19.1	192	7.9
.	LSD	257	0.81	2.1	0.7	36	0.07	5.63	56	2.1

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

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1232	SG 215 BR	4.33	1.00	82.6	26.5	8.2	70.5	8.8	4.60	1152	17.27	3.45
1158	PSC 355	4.45	1.05	83.5	31.5	9.0	66.3	8.7	4.85	1041	18.79	3.45
1196	STV 4892 BR	4.78	1.03	81.7	29.3	8.2	68.3	8.6	4.88	920	17.56	3.18
1169	FIBERMAX 958	4.00	1.10	82.5	31.3	7.4	71.3	8.0	4.70	868	17.89	3.28
1128	ACALA 1517-99	4.78	1.18	83.2	34.0	8.2	66.5	8.0	4.15	870	18.62	3.30
1152	DPL 458 BG/RR	4.93	1.10	82.2	30.3	8.1	72.8	8.3	4.80	849	17.39	3.15
1019	ALL TEX ATLAS	4.75	1.05	82.5	33.3	8.7	67.8	8.3	4.55	492	18.37	3.25
.	LSD	0.95	0.08	1.1	1.2	0.6	2.2	0.8	0.65	330	1.93	0.25

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS--- PLUS (+)	MINUS (-)	TOTAL (%)	----AREALOMETER DATA---- A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1232	SG 215 BR	0.58	0.37	0.95	459	16.8	1.48	95	40.42	3.41	2.8
1158	PSC 355	0.73	0.40	1.13	425	18.8	1.53	93	44.92	4.09	3.0
1196	STV 4892 BR	0.87	0.53	1.40	384	20.8	1.57	91	51.37	5.19	3.3
1169	FIBERMAX 958	0.47	0.44	0.92	472	23.9	1.64	88	43.52	3.57	2.6
1128	ACALA 1517-99	0.59	0.40	0.99	403	22.8	1.61	89	50.22	4.87	3.2
1152	DPL 458 BG/RR	0.67	0.46	1.13	405	23.1	1.62	89	50.08	4.78	3.1
1019	ALL TEX ATLAS	0.70	0.50	1.19	424	22.4	1.60	89	47.42	4.35	2.9
.	LSD	0.11	0.05	0.15	72.7	9.6	0.21	8	4.13	1.16	0.6

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
FIBERMAX 958	4.85	STV 4892 BR	42.9	ACALA 1517-99	10.7
SG 215 BR	4.50	SG 215 BR	42.2	ALL TEX ATLAS	10.6

ALL TEX ATLAS	4.48
ACALA 1517-99	4.43
STV 4892 BR	4.33
DPL 458 BG/RR	4.28
PSC 355	4.20
LSD	0.81

FIBERMAX 958	42.0
PSC 355	42.0
DPL 458 BG/RR	40.3
ACALA 1517-99	39.6
ALL TEX ATLAS	37.6
LSD	2.1

FIBERMAX 958	10.4
STV 4892 BR	9.6
PSC 355	9.3
SG 215 BR	9.1
DPL 458 BG/RR	8.8
LSD	0.7

2.5% S.L. (INCHES)	
ACALA 1517-99	1.18
FIBERMAX 958	1.10
DPL 458 BG/RR	1.10
ALL TEX ATLAS	1.05
PSC 355	1.05
STV 4892 BR	1.03
SG 215 BR	1.00
LSD	0.08

UR (PERCENT)	
PSC 355	83.5
ACALA 1517-99	83.2
SG 215 BR	82.6
FIBERMAX 958	82.5
ALL TEX ATLAS	82.5
DPL 458 BG/RR	82.2
STV 4892 BR	81.7
LSD	1.1

STRENGTH (G/TEX)	
ACALA 1517-99	34.0
ALL TEX ATLAS	33.3
PSC 355	31.5
FIBERMAX 958	31.3
DPL 458 BG/RR	30.3
STV 4892 BR	29.3
SG 215 BR	26.5
LSD	1.2

E	
PSC 355	9.0
ALL TEX ATLAS	8.7
ACALA 1517-99	8.2
STV 4892 BR	8.2
SG 215 BR	8.2
DPL 458 BG/RR	8.1
FIBERMAX 958	7.4
LSD	0.6

MICRONAIRE (SL-HVI)	
STV 4892 BR	4.88
PSC 355	4.85
DPL 458 BG/RR	4.80
FIBERMAX 958	4.70
SG 215 BR	4.60
ALL TEX ATLAS	4.55
ACALA 1517-99	4.15
LSD	0.65

COLORIMETER - Rd	
DPL 458 BG/RR	72.8
FIBERMAX 958	71.3
SG 215 BR	70.5
STV 4892 BR	68.3
ALL TEX ATLAS	67.8
ACALA 1517-99	66.5
PSC 355	66.3
LSD	2.2

COLORIMETER - b	
SG 215 BR	8.8
PSC 355	8.7

MICRONAIRE	
DPL 458 BG/RR	4.93
STV 4892 BR	4.78

STELOMETER - E1	
ACALA 1517-99	8.2
STV 4892 BR	7.9

STV 4892 BR	8.6
DPL 458 BG/RR	8.3
ALL TEX ATLAS	8.3
ACALA 1517-99	8.0
FIBERMAX 958	8.0
LSD	0.8

ACALA 1517-99	4.78
ALL TEX ATLAS	4.75
PSC 355	4.45
SG 215 BR	4.33
FIBERMAX 958	4.00
LSD	0.95

ALL TEX ATLAS	7.9
DPL 458 BG/RR	7.8
PSC 355	7.6
SG 215 BR	6.9
FIBERMAX 958	6.7
LSD	2.1

STELOMETER - T1	
FIBERMAX 958	270
SG 215 BR	223
STV 4892 BR	215
ACALA 1517-99	203
PSC 355	197
ALL TEX ATLAS	192
DPL 458 BG/RR	190
LSD	56

FIBROGRAPH--50% S.L.	
FIBERMAX 958	26.9
SG 215 BR	22.3
STV 4892 BR	21.5
ACALA 1517-99	20.2
PSC 355	19.6
ALL TEX ATLAS	19.1
DPL 458 BG/RR	18.9
LSD	5.63

FIBROGRAPH--2.5% S.L.	
FIBERMAX 958	0.57
STV 4892 BR	0.55
ACALA 1517-99	0.55
DPL 458 BG/RR	0.55
PSC 355	0.54
ALL TEX ATLAS	0.53
SG 215 BR	0.53
LSD	0.07

YARN TENACITY	
FIBERMAX 958	158
SG 215 BR	126
ALL TEX ATLAS	124
STV 4892 BR	122
DPL 458 BG/RR	118
ACALA 1517-99	116
PSC 355	115
LSD	36

AREALOMETER - A (mm2/mm3)	
FIBERMAX 958	472
SG 215 BR	459
PSC 355	425
ALL TEX ATLAS	424
DPL 458 BG/RR	405
ACALA 1517-99	403
STV 4892 BR	384
LSD	72.7

AREALOMETER - D (mm2/mm3)	
FIBERMAX 958	23.9
DPL 458 BG/RR	23.1
ACALA 1517-99	22.8
ALL TEX ATLAS	22.4
STV 4892 BR	20.8
PSC 355	18.8
SG 215 BR	16.8
LSD	9.6

AREALOMETER - I	
FIBERMAX 958	1.64
DPL 458 BG/RR	1.62

AREALOMETER - M (PERCENT)	
SG 215 BR	95
PSC 355	93

AREALOMETER - p (Microns)	
STV 4892 BR	51.37
ACALA 1517-99	50.22

ACALA 1517-99	1.61
ALL TEX ATLAS	1.60
STV 4892 BR	1.57
PSC 355	1.53
SG 215 BR	1.48
LSD	0.21

STV 4892 BR	91
ALL TEX ATLAS	89
DPL 458 BG/RR	89
ACALA 1517-99	89
FIBERMAX 958	88
LSD	8

DPL 458 BG/RR	50.08
ALL TEX ATLAS	47.42
PSC 355	44.92
FIBERMAX 958	43.52
SG 215 BR	40.42
LSD	4.13

AREALOMETER - w (MG/INCH)	
STV 4892 BR	5.19
ACALA 1517-99	4.87
DPL 458 BG/RR	4.78
ALL TEX ATLAS	4.35
PSC 355	4.09
FIBERMAX 958	3.57
SG 215 BR	3.41
LSD	1.16

AREALOMETER - t (MICRONS)	
STV 4892 BR	3.3
ACALA 1517-99	3.2
DPL 458 BG/RR	3.1
PSC 355	3.0
ALL TEX ATLAS	2.9
SG 215 BR	2.8
FIBERMAX 958	2.6
LSD	0.6

SEED YIELD (LB/ACRE)	
SG 215 BR	1152
PSC 355	1041
STV 4892 BR	920
ACALA 1517-99	870
FIBERMAX 958	868
DPL 458 BG/RR	849
ALL TEX ATLAS	492
LSD	330

OIL (PERCENT)	
PSC 355	18.79
ACALA 1517-99	18.62
ALL TEX ATLAS	18.37
FIBERMAX 958	17.89
STV 4892 BR	17.56
DPL 458 BG/RR	17.39
SG 215 BR	17.27
LSD	1.93

NITROGEN (PERCENT)	
PSC 355	3.45
SG 215 BR	3.45
ACALA 1517-99	3.30
FIBERMAX 958	3.28
ALL TEX ATLAS	3.25
STV 4892 BR	3.18
DPL 458 BG/RR	3.15
LSD	0.25

PLUS GOSSYPOL	
STV 4892 BR	0.87
PSC 355	0.73
ALL TEX ATLAS	0.70
DPL 458 BG/RR	0.67
ACALA 1517-99	0.59
SG 215 BR	0.58
FIBERMAX 958	0.47
LSD	0.11

MINUS GOSSYPOL	
STV 4892 BR	0.53
ALL TEX ATLAS	0.50

TOTAL GOSSYPOL (PERCENT)	
STV 4892 BR	1.40
ALL TEX ATLAS	1.19

DPL 458 BG/RR	0.46	DPL 458 BG/RR	1.13
FIBERMAX 958	0.44	PSC 355	1.13
PSC 355	0.40	ACALA 1517-99	0.99
ACALA 1517-99	0.40	SG 215 BR	0.95
SG 215 BR	0.37	FIBERMAX 958	0.92
LSD	0.05	LSD	0.15

BLACKLAND
LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
THRALL, TX	765	4.78	40.0	9.9	126	0.52	21.3	214	7.3
DALLAS, TX	465	4.09	41.8	9.7	125	0.57	21.1	211	7.8

LOCATION	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
THRALL, TX	4.37	1.09	83.1	30.1	8.1	68.4	9.2	4.15	1132	17.56	3.04
DALLAS, TX	4.77	1.05	82.0	31.6	8.4	69.6	7.5	5.14	637	18.41	3.54

LOCATION	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	AREALOMETER DATA I	AREALOMETER DATA M (%)	AREALOMETER DATA p (microns)	AREALOMETER DATA w (mg/in)	AREALOMETER DATA t (microns)

THRALL, TX	0.64	0.43	1.07	447	25.6	1.67	87	47.04	4.09	2.8
DALLAS, TX	0.67	0.46	1.13	413	19.8	1.55	92	47.29	4.50	3.1

DALLAS, TX
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1232	SG 215 BR	647	4.40	43.4	9.1	138	0.58	24.4	245	6.8
1196	STV 4892 BR	595	4.20	44.3	9.7	102	0.57	19.0	191	7.8
1169	FIBERMAX 958	486	4.50	42.6	10.4	164	0.57	26.2	262	6.8
1158	PSC 355	458	3.70	42.6	9.2	125	0.57	21.1	211	6.9
1152	DPL 458 BG/RR	439	4.00	42.0	8.7	112	0.57	18.7	187	8.6
1128	ACALA 1517-99	401	4.15	39.5	10.9	110	0.57	18.2	183	9.0
1019	ALL TEX ATLAS	230	3.70	38.7	10.2	124	0.59	20.1	201	8.8
.	LSD	197	0.89	2.1	1.1	11	0.04	1.04	10	1.2

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1232	SG 215 BR	4.15	1.00	82.3	27.0	8.2	71.0	7.9	5.25	850	17.28	3.75
1196	STV 4892 BR	5.25	1.00	80.8	30.0	8.6	68.0	7.7	5.65	752	18.39	3.50
1169	FIBERMAX 958	3.95	1.10	81.9	32.5	7.5	73.0	6.9	5.20	655	18.61	3.45
1158	PSC 355	4.50	1.00	82.8	32.5	9.0	67.0	7.9	5.25	619	19.35	3.75
1152	DPL 458 BG/RR	5.20	1.10	82.2	30.5	8.4	73.5	7.9	5.35	606	18.44	3.35

1128	ACALA 1517-99	5.35	1.15	82.7	34.5	8.3	66.5	6.9	4.55	615	18.03	3.45
1019	ALL TEX ATLAS	5.00	1.00	81.6	34.0	8.6	68.5	7.5	4.75	362	18.77	3.55
.	LSD	0.23	0.07	1.6	3.9	1.3	3.1	1.6	0.55	307	1.32	0.50

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1232	SG 215 BR	0.57	0.39	0.96	459	16.8	1.48	95	40.42	3.41	2.8
1196	STV 4892 BR	0.83	0.53	1.36	384	20.8	1.57	91	51.37	5.19	3.3
1169	FIBERMAX 958	0.52	0.46	0.97	473	24.5	1.65	88	43.86	3.59	2.7
1158	PSC 355	0.78	0.44	1.22	425	18.8	1.53	93	44.92	4.09	3.0
1152	DPL 458 BG/RR	0.70	0.50	1.20	388	19.5	1.54	92	49.79	4.96	3.3
1128	ACALA 1517-99	0.60	0.40	1.00	366	18.8	1.52	93	51.97	5.49	3.5
1019	ALL TEX ATLAS	0.71	0.52	1.22	396	19.3	1.54	92	48.68	4.76	3.2
.	LSD	0.15	0.15	0.28	27.5	9.4	0.22	8	6.57	0.76	0.4

THRALL, TX
VARIETIES BY LOCATIONS

							DIGITAL FIBROGRAPH		STELOMETER	
ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1158	PSC 355	1033	4.70	41.4	9.4	105	0.51	18.2	183	8.3
1232	SG 215 BR	1018	4.60	41.1	9.1	113	0.48	20.1	201	7.1
1196	STV 4892 BR	769	4.45	41.5	9.5	142	0.54	23.9	239	8.0
1169	FIBERMAX 958	765	5.20	41.4	10.5	152	0.58	27.6	277	6.7
1128	ACALA 1517-99	740	4.70	39.7	10.6	123	0.53	22.3	224	7.4
1152	DPL 458 BG/RR	680	4.55	38.7	9.0	124	0.52	19.2	193	7.0
1019	ALL TEX ATLAS	355	5.25	36.5	11.1	124	0.48	18.2	183	7.0
.	LSD	470	0.82	1.9	0.9	12	0.06	2.52	25	0.9

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

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1158	PSC 355	4.40	1.10	84.2	30.5	9.0	65.5	9.6	4.45	1462	18.23	3.15
1232	SG 215 BR	4.50	1.00	82.9	26.0	8.2	70.0	9.6	3.95	1454	17.26	3.15
1196	STV 4892 BR	4.30	1.05	82.5	28.5	7.8	68.5	9.6	4.10	1088	16.73	2.85
1169	FIBERMAX 958	4.05	1.10	83.1	30.0	7.3	69.5	9.0	4.20	1082	17.17	3.10
1128	ACALA 1517-99	4.20	1.20	83.8	33.5	8.1	66.5	9.1	3.75	1126	19.21	3.15
1152	DPL 458 BG/RR	4.65	1.10	82.2	30.0	7.8	72.0	8.8	4.25	1092	16.33	2.95
1019	ALL TEX ATLAS	4.50	1.10	83.3	32.5	8.8	67.0	9.0	4.35	622	17.97	2.95
.	LSD	0.36	0.07	1.5	1.8	0.9	2.7	0.4	0.82	737	2.07	0.38

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS--- PLUS (+)	MINUS (-)	TOTAL (%)	----AREALOMETER DATA---- A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1158	PSC 355	0.68	0.37	1.04	.	.	.	.	.	.	.
1232	SG 215 BR	0.59	0.36	0.94	.	.	.	.	.	.	.
1196	STV 4892 BR	0.92	0.53	1.45	.	.	.	.	.	.	.
1169	FIBERMAX 958	0.43	0.43	0.86	472	23.3	1.62	89	43.19	3.54	2.6
1128	ACALA 1517-99	0.58	0.40	0.97	440	26.8	1.70	86	48.46	4.26	2.8
1152	DPL 458 BG/RR	0.65	0.43	1.07	423	26.8	1.70	86	50.37	4.61	2.9
1019	ALL TEX ATLAS	0.69	0.48	1.16	453	25.5	1.67	87	46.15	3.94	2.7
.	LSD	0.18	0.18	0.33	12.9	8.8	0.19	7	4.52	0.35	0.2

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Thank you for your interest in the ongoing work of the National Cotton Variety Test Program.

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2003 National Cotton Variety Test

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National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

2003 PLAINS REGIONAL COTTON VARIETY TEST

ALL PLAINS REGIONS COMBINED
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1196	STV 4892 BR	1001	4.63	41.9	10.1	123	0.53	19.7	198	8.1
1169	FIBERMAX 958	967	4.83	40.7	10.3	135	0.54	21.7	217	6.9
1152	DPL 458 BG/RR	951	4.23	39.1	8.7	118	0.52	19.9	199	8.3
1214	PM 2167 RR	945	4.68	38.8	9.5	118	0.51	18.9	189	7.7
971	STV 474	944	4.43	41.7	10.1	122	0.53	19.8	198	7.9
1215	PM 2266 RR	932	5.03	36.7	10.9	126	0.52	21.7	218	8.7
1213	FM 5013	883	4.69	37.4	10.1	122	0.52	21.0	210	8.8
1216	STV 2454 RR	877	4.75	39.7	10.1	121	0.52	20.4	204	8.4
1128	ACALA 1517-99	874	4.78	37.7	11.3	149	0.56	25.3	254	7.9
1135	PAYMASTER 2326 RR	840	4.68	37.5	10.1	128	0.52	22.1	221	8.6

1217 TAMCOT LUXOR	814	5.43	39.3	10.4	125	0.52	20.4	205	8.0
1019 ALL TEX ATLAS	802	4.89	36.8	10.8	129	0.52	21.4	215	8.8
1212 ALL TEX ATLAS RR	798	4.88	37.3	10.1	122	0.52	19.7	197	8.2
. LSD	126	0.30	1.2	0.5	11	0.02	1.31	13	0.9

		SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)										
						COLORIMETER HUNTER'S						
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	4.57	1.05	82.3	28.8	8.1	70.0	9.3	4.68	1214	17.66	3.30
1169	FIBERMAX 958	4.41	1.10	82.9	31.5	7.6	70.0	8.2	4.43	1120	19.46	3.29
1152	DPL 458 BG/RR	4.48	1.08	81.6	30.3	7.9	71.8	8.7	4.43	1285	18.04	3.21
1214	PM 2167 RR	4.51	0.95	81.6	30.0	7.9	69.0	8.5	4.58	1187	20.32	3.54
971	STV 474	4.56	1.05	82.2	28.3	8.0	66.5	9.1	4.83	1134	18.06	3.29
1215	PM 2266 RR	4.31	1.03	82.3	33.3	8.3	68.0	8.3	4.03	1301	18.42	3.33
1213	FM 5013	4.45	1.00	81.7	32.5	8.2	68.3	8.0	4.20	1192	18.89	3.25
1216	STV 2454 RR	4.39	1.03	82.6	31.3	8.5	69.5	8.6	4.93	1089	18.72	3.59
1128	ACALA 1517-99	4.13	1.15	83.6	37.3	8.5	70.5	8.5	4.05	1152	19.21	3.45
1135	PAYMASTER 2326 RR	4.61	1.03	82.7	31.8	8.1	67.8	8.7	4.45	1080	18.45	3.21
1217	TAMCOT LUXOR	4.25	1.03	82.1	30.3	7.8	65.8	7.9	4.33	1022	19.00	3.34
1019	ALL TEX ATLAS	4.44	1.05	82.0	34.3	8.7	68.8	8.0	4.30	1228	19.75	3.35
1212	ALL TEX ATLAS RR	4.56	1.03	81.6	33.5	8.2	68.0	8.3	4.35	1116	19.53	3.40
.	LSD	0.27	0.06	0.9	3.5	0.9	2.8	0.9	0.85	150	0.95	0.21

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
					A	D		M	p	w	t
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
1196	STV 4892 BR	0.83	0.60	1.42	450	32.5	1.79	82	50.19	4.45	2.8
1169	FIBERMAX 958	0.48	0.50	0.99	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.74	0.55	1.28	437	24.7	1.64	88	47.07	4.21	2.9
1214	PM 2167 RR	0.69	0.40	1.08	.	.	.	.	.	.	.
971	STV 474	0.88	0.63	1.52	.	.	.	.	.	.	.
1215	PM 2266 RR	0.64	0.43	1.07	.	.	.	.	.	.	.
1213	FM 5013	0.69	0.50	1.20	.	.	.	.	.	.	.

1216 STV 2454 RR	0.61	0.41	1.01	.	.	.	.	.	.	.
1128 ACALA 1517-99	0.63	0.47	1.10	475	26.2	1.68	87	44.55	3.68	2.6
1135 PAYMASTER 2326 RR	0.68	0.51	1.19	.	.	.	.	.	.	.
1217 TAMCOT LUXOR	0.64	0.47	1.12	.	.	.	.	.	.	.
1019 ALL TEX ATLAS	0.70	0.52	1.23	441	25.0	1.65	87	47.09	4.16	2.8
1212 ALL TEX ATLAS RR	0.74	0.54	1.28	.	.	.	.	.	.	.
. LSD	0.12	0.08	0.19	37.1	7.7	0.16	6	2.74	0.45	0.3

---------- reg=11 REGION=PLAINS ----------

VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1196	STV 4892 BR	907	4.53	40.6	10.4	120	0.54	19.0	191	8.5
1152	DPL 458 BG/RR	808	4.03	38.7	8.6	120	0.52	20.2	203	9.4
1214	PM 2167 RR	794	4.55	38.8	9.6	112	0.51	18.5	186	8.0
1169	FIBERMAX 958	768	5.00	39.8	11.0	136	0.53	21.1	212	7.4
971	STV 474	743	4.50	39.7	10.6	122	0.53	19.6	197	8.7
1215	PM 2266 RR	713	4.93	35.3	11.2	124	0.51	20.5	205	9.2
1216	STV 2454 RR	677	4.48	39.5	10.2	114	0.52	20.1	201	8.9
1128	ACALA 1517-99	629	4.95	36.0	11.7	154	0.56	24.8	249	8.3
1019	ALL TEX ATLAS	616	4.55	35.5	11.0	129	0.51	20.6	207	9.7
1217	TAMCOT LUXOR	595	5.48	37.7	11.0	124	0.51	19.6	196	8.3
1212	ALL TEX ATLAS RR	591	4.70	37.2	10.5	122	0.51	19.5	196	8.9
1213	FM 5013	589	4.45	36.9	10.3	123	0.52	20.6	207	9.6
1135	PAYMASTER 2326 RR	576	4.25	37.7	10.2	128	0.51	21.6	217	9.1
.	LSD	200	0.78	2.5	1.3	14	0.04	1.55	15	1.2

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	4.53	.	.	.	.	.	.	.	1300	18.13	3.20

1152	DPL 458 BG/RR	4.43	.	.	.	.	.	.	.	1266	18.38	3.15
1214	PM 2167 RR	4.73	.	.	.	.	.	.	.	1342	20.75	3.43
1169	FIBERMAX 958	4.58	.	.	.	.	.	.	.	1177	20.27	3.20
971	STV 474	4.75	.	.	.	.	.	.	.	1078	18.67	3.25
1215	PM 2266 RR	4.38	.	.	.	.	.	.	.	1320	19.22	3.35
1216	STV 2454 RR	4.60	.	.	.	.	.	.	.	1089	19.56	3.45
1128	ACALA 1517-99	4.03	.	.	.	.	.	.	.	1147	19.93	3.43
1019	ALL TEX ATLAS	4.60	.	.	.	.	.	.	.	1149	19.93	3.33
1217	TAMCOT LUXOR	4.43	.	.	.	.	.	.	.	987	20.10	3.15
1212	ALL TEX ATLAS RR	4.63	.	.	.	.	.	.	.	1065	19.61	3.30
1213	FM 5013	4.45	.	.	.	.	.	.	.	1108	19.19	3.15
1135	PAYMASTER 2326 RR	4.80	.	.	.	.	.	.	.	1008	19.23	3.10
.	LSD	0.34	.	.	.	.	.	.	.	275	1.56	0.40

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS--- PLUS (+)	MINUS (-)	TOTAL (%)	----------AREALOMETER DATA---------- A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	0.85	0.60	1.45	440	32.8	1.82	81	51.85	4.58	2.8
1152	DPL 458 BG/RR	0.79	0.56	1.35	437	23.6	1.63	88	46.76	4.14	2.9
1214	PM 2167 RR	0.68	0.40	1.08	.	.	.	.	.	.	.
1169	FIBERMAX 958	0.52	0.52	1.06	.	.	.	.	.	.	.
971	STV 474	0.91	0.67	1.58	.	.	.	.	.	.	.
1215	PM 2266 RR	0.63	0.41	1.04	.	.	.	.	.	.	.
1216	STV 2454 RR	0.60	0.39	1.00	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.70	0.51	1.21	474	23.9	1.64	88	43.35	3.54	2.6
1019	ALL TEX ATLAS	0.70	0.49	1.20	415	18.9	1.53	93	46.23	4.32	3.1
1217	TAMCOT LUXOR	0.64	0.47	1.12	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	0.75	0.51	1.26	.	.	.	.	.	.	.
1213	FM 5013	0.69	0.48	1.17	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	0.66	0.47	1.14	.	.	.	.	.	.	.
.	LSD	0.13	0.12	0.24	36.9	9.3	0.19	7	3.04	0.35	0.3

---------- reg=12 REGION=PLAINS ----------

VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1169	FIBERMAX 958	1047	4.74	41.1	9.9	135	0.54	22.0	221	6.6
1196	STV 4892 BR	1039	4.68	42.5	10.0	126	0.53	20.2	202	7.8
971	STV 474	1025	4.39	42.7	9.9	121	0.53	20.0	200	7.2
1215	PM 2266 RR	1019	5.08	37.4	10.7	129	0.53	23.0	230	8.2
1152	DPL 458 BG/RR	1008	4.33	39.2	8.8	117	0.52	19.6	197	7.6
1214	PM 2167 RR	1005	4.74	38.9	9.4	124	0.52	19.3	193	7.4
1213	FM 5013	1000	4.81	37.7	10.0	122	0.52	21.4	214	8.0
1128	ACALA 1517-99	972	4.69	38.5	11.1	146	0.56	25.6	256	7.7
1216	STV 2454 RR	956	4.89	39.8	10.0	128	0.53	20.6	206	8.0
1135	PAYMASTER 2326 RR	946	4.90	37.4	10.1	128	0.53	22.5	226	8.2
1217	TAMCOT LUXOR	901	5.40	40.1	10.2	127	0.53	21.3	213	7.7
1212	ALL TEX ATLAS RR	880	4.98	37.3	9.9	122	0.52	19.8	199	7.8
1019	ALL TEX ATLAS	876	5.06	37.5	10.7	129	0.52	22.0	221	8.2
.	LSD	166	0.25	1.4	0.5	19	0.03	2.26	23	1.5

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1169	FIBERMAX 958	4.30	1.10	82.9	31.5	7.6	70.0	8.2	4.43	1092	18.64	3.38
1196	STV 4892 BR	4.60	1.05	82.3	28.8	8.1	70.0	9.3	4.68	1171	17.19	3.40
971	STV 474	4.38	1.05	82.2	28.3	8.0	66.5	9.1	4.83	1163	17.46	3.33
1215	PM 2266 RR	4.25	1.03	82.3	33.3	8.3	68.0	8.3	4.03	1291	17.61	3.30
1152	DPL 458 BG/RR	4.52	1.08	81.6	30.3	7.9	71.8	8.7	4.43	1294	17.71	3.28
1214	PM 2167 RR	4.30	0.95	81.6	30.0	7.9	69.0	8.5	4.58	1109	19.90	3.65
1213	FM 5013	4.45	1.00	81.7	32.5	8.2	68.3	8.0	4.20	1234	18.59	3.35
1128	ACALA 1517-99	4.20	1.15	83.6	37.3	8.5	70.5	8.5	4.05	1155	18.48	3.48
1216	STV 2454 RR	4.18	1.03	82.6	31.3	8.5	69.5	8.6	4.93	1089	17.87	3.73
1135	PAYMASTER 2326 RR	4.43	1.03	82.7	31.8	8.1	67.8	8.7	4.45	1116	17.67	3.33

1217 TAMCOT LUXOR	4.08	1.03	82.1	30.3	7.8	65.8	7.9	4.33	1039	17.91	3.53
1212 ALL TEX ATLAS RR	4.52	1.03	81.6	33.5	8.2	68.0	8.3	4.35	1141	19.46	3.50
1019 ALL TEX ATLAS	4.33	1.05	82.0	34.3	8.7	68.8	8.0	4.30	1267	19.57	3.38
. LSD	0.45	0.06	0.9	3.5	0.9	2.8	0.9	0.85	192	1.46	0.30

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS--- PLUS (+)	MINUS (-)	TOTAL (%)	----------AREALOMETER DATA---------- A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1169	FIBERMAX 958	0.44	0.48	0.92	.	.	.	.	.	.	.
1196	STV 4892 BR	0.81	0.59	1.39	460	32.3	1.77	83	48.54	4.32	2.9
971	STV 474	0.85	0.60	1.45	.	.	.	.	.	.	.
1215	PM 2266 RR	0.65	0.45	1.10	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.69	0.53	1.22	438	25.3	1.65	87	47.28	4.25	2.9
1214	PM 2167 RR	0.70	0.39	1.07	.	.	.	.	.	.	.
1213	FM 5013	0.70	0.52	1.22	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.57	0.43	1.00	477	27.7	1.71	85	45.35	3.78	2.6
1216	STV 2454 RR	0.61	0.42	1.03	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	0.70	0.54	1.24	.	.	.	.	.	.	.
1217	TAMCOT LUXOR	0.65	0.48	1.12	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	0.73	0.56	1.30	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	0.71	0.55	1.26	458	29.0	1.74	84	47.66	4.05	2.7
.	LSD	0.25	0.14	0.39	71.9	13.8	0.28	11	4.99	0.91	0.6

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
TAMCOT LUXOR	5.43	STV 4892 BR	41.9	ACALA 1517-99	11.3
PM 2266 RR	5.03	STV 474	41.7	PM 2266 RR	10.9
ALL TEX ATLAS	4.89	FIBERMAX 958	40.7	ALL TEX ATLAS	10.8
ALL TEX ATLAS RR	4.88	STV 2454 RR	39.7	TAMCOT LUXOR	10.4
FIBERMAX 958	4.83	TAMCOT LUXOR	39.3	FIBERMAX 958	10.3
ACALA 1517-99	4.78	DPL 458 BG/RR	39.1	PAYMASTER 2326 RR	10.1
STV 2454 RR	4.75	PM 2167 RR	38.8	FM 5013	10.1
FM 5013	4.69	ACALA 1517-99	37.7	STV 4892 BR	10.1
PAYMASTER 2326 RR	4.68	PAYMASTER 2326 RR	37.5	STV 474	10.1

PM 2167 RR	4.68
STV 4892 BR	4.63
STV 474	4.43
DPL 458 BG/RR	4.23
LSD	0.30

FM 5013	37.4
ALL TEX ATLAS RR	37.3
ALL TEX ATLAS	36.8
PM 2266 RR	36.7
LSD	1.2

ALL TEX ATLAS RR	10.1
STV 2454 RR	10.1
PM 2167 RR	9.5
DPL 458 BG/RR	8.7
LSD	0.5

2.5% S.L. (INCHES)	
ACALA 1517-99	1.15
FIBERMAX 958	1.10
DPL 458 BG/RR	1.08
ALL TEX ATLAS	1.05
STV 4892 BR	1.05
STV 474	1.05
PM 2266 RR	1.03
TAMCOT LUXOR	1.03
PAYMASTER 2326 RR	1.03
ALL TEX ATLAS RR	1.03
STV 2454 RR	1.03
FM 5013	1.00
PM 2167 RR	0.95
LSD	0.06

UR (PERCENT)	
ACALA 1517-99	83.6
FIBERMAX 958	82.9
PAYMASTER 2326 RR	82.7
STV 2454 RR	82.6
STV 4892 BR	82.3
PM 2266 RR	82.3
STV 474	82.2
TAMCOT LUXOR	82.1
ALL TEX ATLAS	82.0
FM 5013	81.7
PM 2167 RR	81.6
DPL 458 BG/RR	81.6
ALL TEX ATLAS RR	81.6
LSD	0.9

STRENGTH (G/TEX)	
ACALA 1517-99	37.3
ALL TEX ATLAS	34.3
ALL TEX ATLAS RR	33.5
PM 2266 RR	33.3
FM 5013	32.5
PAYMASTER 2326 RR	31.8
FIBERMAX 958	31.5
STV 2454 RR	31.3
TAMCOT LUXOR	30.3
DPL 458 BG/RR	30.3
PM 2167 RR	30.0
STV 4892 BR	28.8
STV 474	28.3
LSD	3.5

E	
ALL TEX ATLAS	8.7
ACALA 1517-99	8.5
STV 2454 RR	8.5
PM 2266 RR	8.3
ALL TEX ATLAS RR	8.2
FM 5013	8.2
PAYMASTER 2326 RR	8.1
STV 4892 BR	8.1
STV 474	8.0
DPL 458 BG/RR	7.9
PM 2167 RR	7.9

MICRONAIRE (SL-HVI)	
STV 2454 RR	4.93
STV 474	4.83
STV 4892 BR	4.68
PM 2167 RR	4.58
PAYMASTER 2326 RR	4.45
DPL 458 BG/RR	4.43
FIBERMAX 958	4.43
ALL TEX ATLAS RR	4.35
TAMCOT LUXOR	4.33
ALL TEX ATLAS	4.30
FM 5013	4.20

COLORIMETER - Rd	
DPL 458 BG/RR	71.8
ACALA 1517-99	70.5
STV 4892 BR	70.0
FIBERMAX 958	70.0
STV 2454 RR	69.5
PM 2167 RR	69.0
ALL TEX ATLAS	68.8
FM 5013	68.3
ALL TEX ATLAS RR	68.0
PM 2266 RR	68.0
PAYMASTER 2326 RR	67.8

TAMCOT LUXOR	7.8	ACALA 1517-99	4.05	STV 474	66.5
FIBERMAX 958	7.6	PM 2266 RR	4.03	TAMCOT LUXOR	65.8
LSD	0.9	LSD	0.85	LSD	2.8

COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
STV 4892 BR	9.3	PAYMASTER 2326 RR	4.61	FM 5013	8.8
STV 474	9.1	STV 4892 BR	4.57	ALL TEX ATLAS	8.8
DPL 458 BG/RR	8.7	STV 474	4.56	PM 2266 RR	8.7
PAYMASTER 2326 RR	8.7	ALL TEX ATLAS RR	4.56	PAYMASTER 2326 RR	8.6
STV 2454 RR	8.6	PM 2167 RR	4.51	STV 2454 RR	8.4
PM 2167 RR	8.5	DPL 458 BG/RR	4.48	DPL 458 BG/RR	8.3
ACALA 1517-99	8.5	FM 5013	4.45	ALL TEX ATLAS RR	8.2
ALL TEX ATLAS RR	8.3	ALL TEX ATLAS	4.44	STV 4892 BR	8.1
PM 2266 RR	8.3	FIBERMAX 958	4.41	TAMCOT LUXOR	8.0
FIBERMAX 958	8.2	STV 2454 RR	4.39	STV 474	7.9
ALL TEX ATLAS	8.0	PM 2266 RR	4.31	ACALA 1517-99	7.9
FM 5013	8.0	TAMCOT LUXOR	4.25	PM 2167 RR	7.7
TAMCOT LUXOR	7.9	ACALA 1517-99	4.13	FIBERMAX 958	6.9
LSD	0.9	LSD	0.27	LSD	0.9

STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
ACALA 1517-99	254	ACALA 1517-99	25.3	ACALA 1517-99	0.56
PAYMASTER 2326 RR	221	PAYMASTER 2326 RR	22.1	FIBERMAX 958	0.54
PM 2266 RR	218	PM 2266 RR	21.7	STV 4892 BR	0.53
FIBERMAX 958	217	FIBERMAX 958	21.7	STV 474	0.53
ALL TEX ATLAS	215	ALL TEX ATLAS	21.4	PM 2266 RR	0.52
FM 5013	210	FM 5013	21.0	FM 5013	0.52
TAMCOT LUXOR	205	TAMCOT LUXOR	20.4	STV 2454 RR	0.52
STV 2454 RR	204	STV 2454 RR	20.4	PAYMASTER 2326 RR	0.52
DPL 458 BG/RR	199	DPL 458 BG/RR	19.9	TAMCOT LUXOR	0.52
STV 474	198	STV 474	19.8	DPL 458 BG/RR	0.52
STV 4892 BR	198	STV 4892 BR	19.7	ALL TEX ATLAS RR	0.52
ALL TEX ATLAS RR	197	ALL TEX ATLAS RR	19.7	ALL TEX ATLAS	0.52
PM 2167 RR	189	PM 2167 RR	18.9	PM 2167 RR	0.51

LSD	13

LSD	1.31

LSD	0.02

YARN TENACITY	
ACALA 1517-99	149
FIBERMAX 958	135
ALL TEX ATLAS	129
PAYMASTER 2326 RR	128
PM 2266 RR	126
TAMCOT LUXOR	125
STV 4892 BR	123
FM 5013	122
ALL TEX ATLAS RR	122
STV 474	122
STV 2454 RR	121
DPL 458 BG/RR	118
PM 2167 RR	118
LSD	11

AREALOMETER - A (mm2/mm3)	
ACALA 1517-99	475
STV 4892 BR	450
ALL TEX ATLAS	441
DPL 458 BG/RR	437
FIBERMAX 958	.
PAYMASTER 2326 RR	.
PM 2266 RR	.
TAMCOT LUXOR	.
FM 5013	.
ALL TEX ATLAS RR	.
STV 474	.
STV 2454 RR	.
PM 2167 RR	.
LSD	37.1

AREALOMETER - D (mm2/mm3)	
STV 4892 BR	32.5
ACALA 1517-99	26.2
ALL TEX ATLAS	25.0
DPL 458 BG/RR	24.7
FIBERMAX 958	.
PAYMASTER 2326 RR	.
PM 2266 RR	.
TAMCOT LUXOR	.
FM 5013	.
ALL TEX ATLAS RR	.
STV 474	.
STV 2454 RR	.
PM 2167 RR	.
LSD	7.7

AREALOMETER - I	
STV 4892 BR	1.79
ACALA 1517-99	1.68
ALL TEX ATLAS	1.65
DPL 458 BG/RR	1.64
FIBERMAX 958	.
PAYMASTER 2326 RR	.
PM 2266 RR	.
TAMCOT LUXOR	.
FM 5013	.
ALL TEX ATLAS RR	.
STV 474	.
STV 2454 RR	.
PM 2167 RR	.
LSD	0.16

AREALOMETER - M (PERCENT)	
DPL 458 BG/RR	88
ALL TEX ATLAS	87
ACALA 1517-99	87
STV 4892 BR	82
FIBERMAX 958	.
PAYMASTER 2326 RR	.
PM 2266 RR	.
TAMCOT LUXOR	.
FM 5013	.
ALL TEX ATLAS RR	.
STV 474	.
STV 2454 RR	.
PM 2167 RR	.
LSD	6

AREALOMETER - p (Microns)	
STV 4892 BR	50.19
ALL TEX ATLAS	47.09
DPL 458 BG/RR	47.07
ACALA 1517-99	44.55
FIBERMAX 958	.
PAYMASTER 2326 RR	.
PM 2266 RR	.
TAMCOT LUXOR	.
FM 5013	.
ALL TEX ATLAS RR	.
STV 474	.
STV 2454 RR	.
PM 2167 RR	.
LSD	2.74

AREALOMETER - w (MG/INCH)	
STV 4892 BR	4.45
DPL 458 BG/RR	4.21
ALL TEX ATLAS	4.16
ACALA 1517-99	3.68
FIBERMAX 958	.
PAYMASTER 2326 RR	.
PM 2266 RR	.
TAMCOT LUXOR	.
FM 5013	.
ALL TEX ATLAS RR	.
STV 474	.
STV 2454 RR	.
PM 2167 RR	.
LSD	0.45

AREALOMETER - t (MICRONS)	
DPL 458 BG/RR	2.9
ALL TEX ATLAS	2.8
STV 4892 BR	2.8
ACALA 1517-99	2.6
FIBERMAX 958	.
PAYMASTER 2326 RR	.
PM 2266 RR	.
TAMCOT LUXOR	.
FM 5013	.
ALL TEX ATLAS RR	.
STV 474	.
STV 2454 RR	.
PM 2167 RR	.
LSD	0.3

SEED YIELD (LB/ACRE)	
PM 2266 RR	1301
DPL 458 BG/RR	1285
ALL TEX ATLAS	1228
STV 4892 BR	1214
FM 5013	1192
PM 2167 RR	1187
ACALA 1517-99	1152
STV 474	1134
FIBERMAX 958	1120
ALL TEX ATLAS RR	1116
STV 2454 RR	1089
PAYMASTER 2326 RR	1080
TAMCOT LUXOR	1022
LSD	150

OIL (PERCENT)	
PM 2167 RR	20.32
ALL TEX ATLAS	19.75
ALL TEX ATLAS RR	19.53
FIBERMAX 958	19.46
ACALA 1517-99	19.21
TAMCOT LUXOR	19.00
FM 5013	18.89
STV 2454 RR	18.72
PAYMASTER 2326 RR	18.45
PM 2266 RR	18.42
STV 474	18.06
DPL 458 BG/RR	18.04
STV 4892 BR	17.66
LSD	0.95

NITROGEN (PERCENT)	
STV 2454 RR	3.59
PM 2167 RR	3.54
ACALA 1517-99	3.45
ALL TEX ATLAS RR	3.40
ALL TEX ATLAS	3.35
TAMCOT LUXOR	3.34
PM 2266 RR	3.33
STV 4892 BR	3.30
FIBERMAX 958	3.29
STV 474	3.29
FM 5013	3.25
PAYMASTER 2326 RR	3.21
DPL 458 BG/RR	3.21
LSD	0.21

PLUS GOSSYPOL	
STV 474	0.88
STV 4892 BR	0.83
ALL TEX ATLAS RR	0.74
DPL 458 BG/RR	0.74
ALL TEX ATLAS	0.70
FM 5013	0.69
PM 2167 RR	0.69
PAYMASTER 2326 RR	0.68
TAMCOT LUXOR	0.64
PM 2266 RR	0.64
ACALA 1517-99	0.63
STV 2454 RR	0.61
FIBERMAX 958	0.48
LSD	0.12

MINUS GOSSYPOL		TOTAL GOSSYPOL (PERCENT)	
STV 474	0.63	STV 474	1.52
STV 4892 BR	0.60	STV 4892 BR	1.42
DPL 458 BG/RR	0.55	DPL 458 BG/RR	1.28
ALL TEX ATLAS RR	0.54	ALL TEX ATLAS RR	1.28
ALL TEX ATLAS	0.52	ALL TEX ATLAS	1.23
PAYMASTER 2326 RR	0.51	FM 5013	1.20
FM 5013	0.50	PAYMASTER 2326 RR	1.19
FIBERMAX 958	0.50	TAMCOT LUXOR	1.12
TAMCOT LUXOR	0.47	ACALA 1517-99	1.10
ACALA 1517-99	0.47	PM 2167 RR	1.08
PM 2266 RR	0.43	PM 2266 RR	1.07
STV 2454 RR	0.41	STV 2454 RR	1.01
PM 2167 RR	0.40	FIBERMAX 958	0.99
LSD	0.08	LSD	0.19

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
CHILLICOTHE, TX (DRY)	1734	.	.	.	121	0.53	19.1	191	7.7
ALTUS, OK (IRR)	1493	5.60	39.4	11.1	130	0.54	21.9	219	8.2
LUBBOCK, TX (IRR)	1025	5.19	37.5	11.4	114	0.51	18.9	190	8.8
CHICKASHA, OK (IRR)	1007	5.71	39.7	11.0	.	.	.	.	.
CHICKASHA, OK (DRY)	409	4.37	39.7	9.7	.	.	.	.	.
LAMESA, TX (DRY)	360	4.10	38.5	9.6	136	0.53	21.9	220	8.7
TIPTON, OK	233	3.60	38.1	8.3	128	0.51	21.9	220	7.1

LOCATION	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)

CHILLICOTHE, TX (DRY)	4.76	.	.	.	.	.	.	.	.	.	.
ALTUS, OK (IRR)	4.86	1.11	83.4	31.8	8.6	70.6	7.6	4.75	2302	20.33	3.25
LUBBOCK, TX (IRR)	4.44	.	.	.	.	.	.	.	1735	19.29	3.33
CHICKASHA, OK (IRR)	.	.	.	.	.	.	.	.	1500	.	.
CHICKASHA, OK (DRY)	.	.	.	.	.	.	.	.	524	.	.
LAMESA, TX (DRY)	4.62	.	.	.	.	.	.	.	578	19.62	3.21
TIPTON, OK	3.67	0.97	81.1	31.7	7.6	66.9	9.3	4.10	339	16.30	3.61

	---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
LOCATION	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
CHILLICOTHE, TX (DRY)	.	.	.	417	23.3	1.62	88	48.90	4.55	3.0
ALTUS, OK (IRR)	0.89	0.72	1.61	407	18.4	1.51	93	46.64	4.49	3.2
LUBBOCK, TX (IRR)	0.73	0.54	1.27	436	23.2	1.62	89	46.70	4.18	2.9
CHICKASHA, OK (IRR)	.	.	.	.	.	.	.	.	.	.
CHICKASHA, OK (DRY)	.	.	.	.	.	.	.	.	.	.
LAMESA, TX (DRY)	0.68	0.45	1.14	447	26.4	1.69	86	47.39	4.11	2.8
TIPTON, OK	0.46	0.28	0.74	539	41.8	1.98	75	46.18	3.33	2.2

LUBBOCK, TX (IRR)
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
1196	STV 4892 BR	1389	5.00	40.9	10.9	107	0.51	17.4	175	8.2
1214	PM 2167 RR	1161	4.95	38.1	10.5	106	0.51	17.0	171	7.8
1169	FIBERMAX 958	1158	5.55	39.4	12.0	120	0.50	19.9	199	7.4
1152	DPL 458 BG/RR	1119	4.35	38.1	9.2	101	0.50	18.7	188	10.0
1216	STV 2454 RR	1067	5.20	39.1	11.1	101	0.51	19.0	190	8.7
971	STV 474	1032	4.55	40.6	10.8	112	0.51	17.6	177	8.3

1215 PM 2266 RR	1011	5.75	34.2	12.5	119	0.51	19.8	198	9.1
1128 ACALA 1517-99	979	5.35	36.6	12.7	140	0.55	22.2	223	8.8
1212 ALL TEX ATLAS RR	932	5.55	36.1	11.4	114	0.52	18.4	185	9.2
1019 ALL TEX ATLAS	921	4.85	35.3	11.7	126	0.51	19.4	195	10.2
1213 FM 5013	873	5.25	35.1	11.7	110	0.53	19.5	195	10.3
1135 PAYMASTER 2326 RR	871	5.10	36.2	12.0	119	0.50	19.8	198	9.2
1217 TAMCOT LUXOR	820	6.05	37.6	11.3	111	0.50	17.6	177	7.9
. LSD	145	0.61	1.5	0.9	8	0.02	1.33	13	1.3

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)								
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	4.55	.	.	.	.	.	.	.	2019	17.60	3.20
1214	PM 2167 RR	4.50	.	.	.	.	.	.	.	2046	21.64	3.60
1169	FIBERMAX 958	4.45	.	.	.	.	.	.	.	1800	19.96	3.30
1152	DPL 458 BG/RR	4.50	.	.	.	.	.	.	.	1721	17.94	3.20
1216	STV 2454 RR	4.50	.	.	.	.	.	.	.	1757	19.80	3.45
971	STV 474	4.80	.	.	.	.	.	.	.	1481	17.76	3.50
1215	PM 2266 RR	4.30	.	.	.	.	.	.	.	1885	18.79	3.15
1128	ACALA 1517-99	4.00	.	.	.	.	.	.	.	1736	19.62	3.70
1212	ALL TEX ATLAS RR	4.50	.	.	.	.	.	.	.	1654	19.75	3.40
1019	ALL TEX ATLAS	4.40	.	.	.	.	.	.	.	1715	19.27	3.30
1213	FM 5013	4.15	.	.	.	.	.	.	.	1657	19.13	3.10
1135	PAYMASTER 2326 RR	4.75	.	.	.	.	.	.	.	1570	19.80	3.10
1217	TAMCOT LUXOR	4.35	.	.	.	.	.	.	.	1514	19.75	3.25
.	LSD	0.38	.	.	.	.	.	.	.	373	1.32	0.34

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	0.90	0.66	1.55	434	30.8	1.78	83	51.47	4.63	2.8
1214	PM 2167 RR	0.72	0.42	1.14	.	.	.	.	.	.	.
1169	FIBERMAX 958	0.49	0.53	1.02	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.76	0.58	1.34	420	19.8	1.55	92	46.23	4.26	3.0

1216	STV 2454 RR	0.72	0.49	1.21	.	.	.	.	.	.	.
971	STV 474	0.90	0.66	1.56	.	.	.	.	.	.	.
1215	PM 2266 RR	0.69	0.48	1.17	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.72	0.53	1.25	474	25.0	1.66	88	43.92	3.59	2.6
1212	ALL TEX ATLAS RR	0.77	0.60	1.37	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	0.72	0.55	1.27	415	17.3	1.49	94	45.19	4.24	3.1
1213	FM 5013	0.71	0.55	1.26	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	0.73	0.58	1.31	.	.	.	.	.	.	.
1217	TAMCOT LUXOR	0.63	0.47	1.10	.	.	.	.	.	.	.
.	LSD	0.08	0.08	0.14	70.3	13.7	0.28	11	8.78	1.36	0.6

LAMESA, TX (DRY)
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1152	DPL 458 BG/RR	498	3.70	39.4	8.0	139	0.54	21.7	218	8.8
971	STV 474	453	4.45	38.7	10.3	133	0.55	21.5	216	9.1
1214	PM 2167 RR	428	4.15	39.5	8.7	118	0.50	20.0	201	8.2
1196	STV 4892 BR	425	4.05	40.3	9.9	133	0.57	20.6	206	8.9
1215	PM 2266 RR	416	4.10	36.5	10.0	130	0.52	21.2	213	9.3
1169	FIBERMAX 958	377	4.45	40.3	10.1	153	0.57	22.4	225	7.3
1217	TAMCOT LUXOR	370	4.90	37.8	10.6	137	0.52	21.6	216	8.8
1019	ALL TEX ATLAS	312	4.25	35.8	10.3	131	0.52	21.8	219	9.2
1213	FM 5013	304	3.65	38.7	8.9	135	0.52	21.8	218	8.9
1216	STV 2454 RR	286	3.75	39.9	9.4	127	0.53	21.3	213	9.2
1135	PAYMASTER 2326 RR	282	3.40	39.3	8.5	137	0.53	23.5	236	9.0
1128	ACALA 1517-99	279	4.55	35.5	10.8	169	0.58	27.5	276	7.8
1212	ALL TEX ATLAS RR	250	3.85	38.4	9.7	131	0.51	20.6	207	8.7
.	LSD	102	0.57	1.4	1.0	14	0.02	1.80	18	0.9

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

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1152	DPL 458 BG/RR	4.35	.	.	.	.	.	.	.	811	18.81	3.10
971	STV 474	4.70	.	.	.	.	.	.	.	675	19.58	3.00
1214	PM 2167 RR	4.95	.	.	.	.	.	.	.	637	19.85	3.25
1196	STV 4892 BR	4.50	.	.	.	.	.	.	.	581	18.66	3.20
1215	PM 2266 RR	4.45	.	.	.	.	.	.	.	755	19.65	3.55
1169	FIBERMAX 958	4.70	.	.	.	.	.	.	.	554	20.59	3.10
1217	TAMCOT LUXOR	4.50	.	.	.	.	.	.	.	460	20.45	3.05
1019	ALL TEX ATLAS	4.80	.	.	.	.	.	.	.	583	20.59	3.35
1213	FM 5013	4.75	.	.	.	.	.	.	.	559	19.25	3.20
1216	STV 2454 RR	4.70	.	.	.	.	.	.	.	421	19.33	3.45
1135	PAYMASTER 2326 RR	4.85	.	.	.	.	.	.	.	445	18.66	3.10
1128	ACALA 1517-99	4.05	.	.	.	.	.	.	.	557	20.25	3.15
1212	ALL TEX ATLAS RR	4.75	.	.	.	.	.	.	.	477	19.47	3.20
.	LSD	0.23	.	.	.	.	.	.	.	335	1.54	0.40

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1152	DPL 458 BG/RR	0.82	0.55	1.36	455	27.5	1.71	85	47.29	4.03	2.7
971	STV 474	0.93	0.68	1.60	.	.	.	.	.	.	.
1214	PM 2167 RR	0.65	0.38	1.03	.	.	.	.	.	.	.
1196	STV 4892 BR	0.81	0.55	1.36	446	34.8	1.86	80	52.22	4.53	2.7
1215	PM 2266 RR	0.57	0.33	0.90	.	.	.	.	.	.	.
1169	FIBERMAX 958	0.56	0.51	1.10	.	.	.	.	.	.	.
1217	TAMCOT LUXOR	0.66	0.48	1.14	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	0.68	0.44	1.12	415	20.5	1.57	91	47.28	4.41	3.1
1213	FM 5013	0.67	0.42	1.09	.	.	.	.	.	.	.
1216	STV 2454 RR	0.49	0.30	0.79	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	0.60	0.37	0.96	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.69	0.49	1.18	473	22.8	1.62	89	42.78	3.50	2.7
1212	ALL TEX ATLAS RR	0.73	0.43	1.16	.	.	.	.	.	.	.
.	LSD	0.25	0.25	0.45	23.5	6.7	0.14	6	1.70	0.12	0.3

ALTUS, OK (IRR)
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1152	DPL 458 BG/RR	1748	4.80	40.8	8.8	117	0.52	19.3	193	9.2
971	STV 474	1745	4.95	43.0	10.5	120	0.54	19.9	200	8.2
1196	STV 4892 BR	1743	5.40	41.4	11.0	117	0.53	19.7	197	8.0
1169	FIBERMAX 958	1721	5.55	42.3	11.0	146	0.56	23.0	231	7.0
1214	PM 2167 RR	1479	5.50	39.6	10.6	129	0.53	19.1	191	7.9
1128	ACALA 1517-99	1466	5.45	38.7	12.6	150	0.59	26.9	270	7.5
1216	STV 2454 RR	1412	5.75	39.5	11.4	127	0.54	20.8	208	8.0
1213	FM 5013	1411	5.40	38.1	11.0	123	0.54	21.8	219	9.0
1215	PM 2266 RR	1400	6.15	37.7	12.1	133	0.56	23.1	231	8.2
1019	ALL TEX ATLAS	1358	6.05	37.6	11.8	144	0.55	23.7	238	9.1
1217	TAMCOT LUXOR	1336	6.15	40.4	11.1	131	0.56	22.2	222	8.2
1212	ALL TEX ATLAS RR	1314	5.70	36.5	11.4	132	0.53	22.2	224	8.2
1135	PAYMASTER 2326 RR	1283	5.90	37.0	11.5	128	0.54	22.6	226	8.7
.	LSD	59	0.35	0.8	0.6	9	0.02	2.18	22	1.0

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1152	DPL 458 BG/RR	4.95	1.15	82.6	29.0	8.3	73.0	7.8	4.40	2480	18.86	2.95
971	STV 474	4.90	1.10	83.5	29.0	8.7	68.0	8.2	4.90	2331	19.16	3.00
1196	STV 4892 BR	5.50	1.10	83.5	30.0	8.8	72.0	8.7	4.55	2505	19.14	3.25
1169	FIBERMAX 958	4.85	1.20	84.4	31.5	7.8	72.5	6.9	4.70	2421	20.88	3.10
1214	PM 2167 RR	4.65	1.00	82.7	32.5	8.8	71.5	8.2	4.85	2315	22.23	3.55

1128 ACALA 1517-99	4.45	1.20	84.9	37.0	8.6	72.0	7.9	4.15	2341	21.17	3.25
1216 STV 2454 RR	4.60	1.10	83.9	31.0	8.7	70.5	7.3	5.10	2143	19.51	3.55
1213 FM 5013	5.20	1.10	83.3	32.0	8.6	70.0	7.3	4.80	2282	21.13	3.30
1215 PM 2266 RR	4.80	1.10	83.2	34.0	9.2	69.5	7.5	4.70	2376	19.86	3.20
1019 ALL TEX ATLAS	4.60	1.10	82.8	32.0	8.8	71.0	7.4	4.75	2309	21.15	3.15
1217 TAMCOT LUXOR	4.55	1.10	82.8	30.5	8.3	69.0	6.8	4.75	1962	20.28	3.50
1212 ALL TEX ATLAS RR	5.10	1.10	82.9	34.0	9.0	71.0	7.7	4.90	2255	21.81	3.30
1135 PAYMASTER 2326 RR	5.05	1.10	83.4	31.5	8.8	67.5	8.0	5.20	2209	19.11	3.20
. LSD	0.46	0.04	1.3	3.0	0.5	2.6	0.5	0.37	175	1.93	0.30

	---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE / VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1152 DPL 458 BG/RR	0.88	0.74	1.61	385	12.8	1.38	98	44.89	4.51	3.4
971 STV 474	1.26	0.93	2.18	.	.	.	.	.	.	.
1196 STV 4892 BR	1.19	0.90	2.09	356	14.0	1.41	97	49.66	5.39	3.7
1169 FIBERMAX 958	0.57	0.69	1.26	.	.	.	.	.	.	.
1214 PM 2167 RR	0.90	0.58	1.47	.	.	.	.	.	.	.
1128 ACALA 1517-99	0.75	0.61	1.35	443	19.8	1.55	92	43.93	3.87	2.9
1216 STV 2454 RR	0.80	0.60	1.40	.	.	.	.	.	.	.
1213 FM 5013	0.89	0.74	1.63	.	.	.	.	.	.	.
1215 PM 2266 RR	0.86	0.67	1.52	.	.	.	.	.	.	.
1019 ALL TEX ATLAS	0.93	0.77	1.70	445	27.0	1.70	86	48.08	4.18	2.8
1217 TAMCOT LUXOR	0.81	0.67	1.47	.	.	.	.	.	.	.
1212 ALL TEX ATLAS RR	0.92	0.78	1.70	.	.	.	.	.	.	.
1135 PAYMASTER 2326 RR	0.88	0.76	1.63	.	.	.	.	.	.	.
. LSD	0.13	0.13	0.23	73.2	7.6	0.18	7	6.75	1.18	0.6

CHICKASHA, OK (DRY)
VARIETIES BY LOCATIONS

	LINT	BOLL	YARN	DIGITAL FIBROGRAPH	STELOMETER

VARIETY CODE	VARIETY NAME	YIELD (lb/acre)	SIZE (g/boll)	LINT PERCENT	SEED INDEX	TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1196	STV 4892 BR	531	4.15	44.7	9.3	.	.	.	.	.
1213	FM 5013	467	4.25	40.0	9.5	.	.	.	.	.
1152	DPL 458 BG/RR	454	4.15	38.8	9.2	.	.	.	.	.
1019	ALL TEX ATLAS	445	4.50	37.3	10.6	.	.	.	.	.
1215	PM 2266 RR	422	4.50	37.6	10.0	.	.	.	.	.
1212	ALL TEX ATLAS RR	408	4.25	37.8	9.0	.	.	.	.	.
971	STV 474	406	4.00	44.4	9.7	.	.	.	.	.
1217	TAMCOT LUXOR	404	5.20	41.0	10.1	.	.	.	.	.
1214	PM 2167 RR	380	4.20	38.9	8.9	.	.	.	.	.
1135	PAYMASTER 2326 RR	376	4.35	38.2	9.8	.	.	.	.	.
1169	FIBERMAX 958	365	4.25	39.7	9.5	.	.	.	.	.
1216	STV 2454 RR	335	4.70	40.1	9.9	.	.	.	.	.
1128	ACALA 1517-99	320	4.35	38.3	11.1	.	.	.	.	.
.	LSD	94	0.63	2.2	0.8	.	.	.	.	.

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
							COLORIMETER HUNTER'S					
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	.	.	.	.	.	.	.	.	389	.	.
1213	FM 5013	.	.	.	.	.	.	.	.	627	.	.
1152	DPL 458 BG/RR	.	.	.	.	.	.	.	.	620	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	689	.	.
1215	PM 2266 RR	.	.	.	.	.	.	.	.	614	.	.
1212	ALL TEX ATLAS RR	.	.	.	.	.	.	.	.	658	.	.
971	STV 474	.	.	.	.	.	.	.	.	402	.	.
1217	TAMCOT LUXOR	.	.	.	.	.	.	.	.	501	.	.
1214	PM 2167 RR	.	.	.	.	.	.	.	.	416	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	575	.	.
1169	FIBERMAX 958	.	.	.	.	.	.	.	.	459	.	.
1216	STV 2454 RR	.	.	.	.	.	.	.	.	493	.	.
1128	ACALA 1517-99	.	.	.	.	.	.	.	.	369	.	.
.	LSD	.	.	.	.	.	.	.	.	215	.	.

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	.	.	.	.	.	.	.	.	.	.
1213	FM 5013	.	.	.	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	.	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.	.
1215	PM 2266 RR	.	.	.	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	.	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.	.
1217	TAMCOT LUXOR	.	.	.	.	.	.	.	.	.	.
1214	PM 2167 RR	.	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.	.
1169	FIBERMAX 958	.	.	.	.	.	.	.	.	.	.
1216	STV 2454 RR	.	.	.	.	.	.	.	.	.	.
1128	ACALA 1517-99	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

CHICKASHA, OK (IRR)
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
1196	STV 4892 BR	1174	5.50	42.8	11.1	.	.	.	.	.
1215	PM 2266 RR	1163	5.95	37.7	11.8	.	.	.	.	.
971	STV 474	1102	5.35	42.8	10.8	.	.	.	.	.
1152	DPL 458 BG/RR	1079	5.30	38.4	9.8	.	.	.	.	.
1216	STV 2454 RR	1049	5.60	40.8	10.7	.	.	.	.	.

1214	PM 2167 RR	1032	5.60	38.9	10.6	.	.	.	.	.
1217	TAMCOT LUXOR	999	6.15	40.2	11.3	.	.	.	.	.
1128	ACALA 1517-99	992	5.55	39.1	11.9	.	.	.	.	.
1213	FM 5013	964	5.85	37.8	11.4	.	.	.	.	.
1169	FIBERMAX 958	932	5.55	42.5	11.0	.	.	.	.	.
1019	ALL TEX ATLAS	923	6.00	37.8	11.6	.	.	.	.	.
1135	PAYMASTER 2326 RR	868	5.75	39.3	10.8	.	.	.	.	.
1212	ALL TEX ATLAS RR	809	6.10	38.2	11.1	.	.	.	.	.
.	LSD	165	0.64	1.6	0.9	.	.	.	.	.

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
							COLORIMETER HUNTER'S					
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	.	.	.	.	.	.	.	.	1507	.	.
1215	PM 2266 RR	.	.	.	.	.	.	.	.	1867	.	.
971	STV 474	.	.	.	.	.	.	.	.	1648	.	.
1152	DPL 458 BG/RR	.	.	.	.	.	.	.	.	1753	.	.
1216	STV 2454 RR	.	.	.	.	.	.	.	.	1417	.	.
1214	PM 2167 RR	.	.	.	.	.	.	.	.	1389	.	.
1217	TAMCOT LUXOR	.	.	.	.	.	.	.	.	1347	.	.
1128	ACALA 1517-99	.	.	.	.	.	.	.	.	1613	.	.
1213	FM 5013	.	.	.	.	.	.	.	.	1589	.	.
1169	FIBERMAX 958	.	.	.	.	.	.	.	.	1169	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	1667	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	1244	.	.
1212	ALL TEX ATLAS RR	.	.	.	.	.	.	.	.	1289	.	.
.	LSD	.	.	.	.	.	.	.	.	349	.	.

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	.	.	.	.	.	.	.	.	.	.
1215	PM 2266 RR	.	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.	.

1152	DPL 458 BG/RR	.	.	.	.	.	.	.	.	.	.
1216	STV 2454 RR	.	.	.	.	.	.	.	.	.	.
1214	PM 2167 RR	.	.	.	.	.	.	.	.	.	.
1217	TAMCOT LUXOR	.	.	.	.	.	.	.	.	.	.
1128	ACALA 1517-99	.	.	.	.	.	.	.	.	.	.
1213	FM 5013	.	.	.	.	.	.	.	.	.	.
1169	FIBERMAX 958	.	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

CHILLICOTHE, TX (DRY)
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1169	FIBERMAX 958	1975	.	.	.	112	0.52	18.7	188	7.2
1135	PAYMASTER 2326 RR	1942	.	.	.	.	.	.	.	.
1215	PM 2266 RR	1908	.	.	.	.	.	.	.	.
1213	FM 5013	1897	.	.	.	.	.	.	.	.
1128	ACALA 1517-99	1880	.	.	.	132	0.54	23.1	232	8.0
1214	PM 2167 RR	1878	.	.	.	.	.	.	.	.
1216	STV 2454 RR	1757	.	.	.	.	.	.	.	.
971	STV 474	1675	.	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	1629	.	.	.	106	0.53	16.4	164	8.7
1196	STV 4892 BR	1552	.	.	.	134	0.56	20.2	203	8.7
1152	DPL 458 BG/RR	1530	.	.	.	126	0.53	17.5	176	6.1
1217	TAMCOT LUXOR	1519	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	1397	.	.	.	116	0.50	18.4	185	7.7
.	LSD	301	.	.	.	6	0.02	2.23	22	1.4

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1169	FIBERMAX 958	4.75	.	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.	.	.
1215	PM 2266 RR	.	.	.	.	.	.	.	.	.	.	.
1213	FM 5013	.	.	.	.	.	.	.	.	.	.	.
1128	ACALA 1517-99	4.70	.	.	.	.	.	.	.	.	.	.
1214	PM 2167 RR	.	.	.	.	.	.	.	.	.	.	.
1216	STV 2454 RR	.	.	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	4.70	.	.	.	.	.	.	.	.	.	.
1196	STV 4892 BR	4.80	.	.	.	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	4.95	.	.	.	.	.	.	.	.	.	.
1217	TAMCOT LUXOR	.	.	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	4.65	.	.	.	.	.	.	.	.	.	.
.	LSD	0.57	.	.	.	.	.	.	.	.	.	.

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1169	FIBERMAX 958	.	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.	.
1215	PM 2266 RR	.	.	.	.	.	.	.	.	.	.
1213	FM 5013	.	.	.	.	.	.	.	.	.	.
1128	ACALA 1517-99	.	.	.	424	26.3	1.69	86	49.99	4.58	2.9
1214	PM 2167 RR	.	.	.	.	.	.	.	.	.	.
1216	STV 2454 RR	.	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	.	.	.	.	.	.	.	.	.	.
1196	STV 4892 BR	.	.	.	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	.	.	.	403	22.0	1.60	90	49.66	4.76	3.1
1217	TAMCOT LUXOR	.	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	423	21.5	1.59	90	47.06	4.30	3.0
.	LSD	.	.	.	92.0	14.5	0.30	14	5.10	1.23	0.7

TIPTON, OK
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1213	FM 5013	264	3.75	35.0	8.3	122	0.50	20.9	210	6.9
1135	PAYMASTER 2326 RR	261	3.60	35.3	8.3	128	0.51	22.5	226	7.8
1019	ALL TEX ATLAS	259	3.70	37.2	8.9	129	0.50	23.9	240	7.8
1214	PM 2167 RR	254	3.65	38.2	7.7	119	0.52	19.5	195	6.8
1217	TAMCOT LUXOR	248	4.10	39.0	8.3	123	0.49	20.4	205	7.3
1169	FIBERMAX 958	244	3.60	40.1	8.3	146	0.53	24.4	245	5.7
1212	ALL TEX ATLAS RR	241	3.85	36.8	8.0	128	0.50	20.8	209	6.5
1216	STV 2454 RR	229	3.50	38.8	8.1	130	0.52	20.4	205	7.9
1152	DPL 458 BG/RR	227	3.05	39.0	7.5	109	0.50	22.2	222	7.7
1215	PM 2266 RR	203	3.70	36.7	8.8	125	0.51	22.9	230	8.2
1128	ACALA 1517-99	203	3.40	37.9	8.9	156	0.55	26.7	268	7.6
1196	STV 4892 BR	196	3.65	41.3	8.5	127	0.50	20.7	207	6.7
971	STV 474	196	3.25	40.6	8.5	122	0.53	20.0	200	6.3
.	LSD	29	0.53	2.1	0.9	10	0.02	2.16	22	0.9

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1213	FM 5013	3.70	0.90	80.1	33.0	7.7	66.5	8.7	3.60	438	16.05	3.40
1135	PAYMASTER 2326 RR	3.80	0.95	82.0	32.0	7.4	68.0	9.4	3.70	435	16.24	3.45
1019	ALL TEX ATLAS	3.75	1.00	81.2	36.5	8.5	66.5	8.7	3.85	403	18.00	3.60
1214	PM 2167 RR	3.95	0.90	80.6	27.5	6.9	66.5	8.9	4.30	317	17.58	3.75
1217	TAMCOT LUXOR	3.60	0.95	81.4	30.0	7.3	62.5	9.0	3.90	346	15.54	3.55
1169	FIBERMAX 958	3.30	1.00	81.5	31.5	7.3	67.5	9.6	4.15	318	16.41	3.65

1212	ALL TEX ATLAS RR	3.75	0.95	80.3	33.0	7.5	65.0	9.0	3.80	363	17.11	3.70
1216	STV 2454 RR	3.75	0.95	81.3	31.5	8.2	68.5	9.9	4.75	304	16.24	3.90
1152	DPL 458 BG/RR	3.65	1.00	80.6	31.5	7.5	70.5	9.7	4.45	324	16.56	3.60
1215	PM 2266 RR	3.70	0.95	81.3	32.5	7.4	66.5	9.2	3.35	308	15.37	3.40
1128	ACALA 1517-99	3.45	1.10	82.2	37.5	8.3	69.0	9.1	3.95	296	15.80	3.70
1196	STV 4892 BR	3.50	1.00	81.2	27.5	7.3	68.0	10.0	4.80	282	15.24	3.55
971	STV 474	3.85	1.00	80.9	27.5	7.2	65.0	10.0	4.75	269	15.76	3.65
.	LSD	0.20	0.09	2.0	3.9	0.4	5.3	0.7	0.64	85	1.13	0.23

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1213	FM 5013	0.51	0.31	0.82	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	0.53	0.33	0.85	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	0.49	0.33	0.82	506	38.5	1.93	77	47.85	3.67	2.4
1214	PM 2167 RR	0.51	0.21	0.67	.	.	.	.	.	.	.
1217	TAMCOT LUXOR	0.49	0.29	0.77	.	.	.	.	.	.	.
1169	FIBERMAX 958	0.31	0.28	0.59	.	.	.	.	.	.	.
1212	ALL TEX ATLAS RR	0.55	0.35	0.90	.	.	.	.	.	.	.
1216	STV 2454 RR	0.43	0.24	0.67	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.50	0.33	0.83	525	41.3	1.97	75	47.30	3.50	2.3
1215	PM 2266 RR	0.44	0.24	0.68	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.39	0.26	0.65	563	37.0	1.89	79	42.14	2.89	2.1
1196	STV 4892 BR	0.43	0.28	0.70	565	50.5	2.13	69	47.43	3.25	2.1
971	STV 474	0.45	0.28	0.73	.	.	.	.	.	.	.
.	LSD	0.15	0.15	0.22	80.0	19.4	0.36	14	4.44	0.61	0.3

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2003 National Cotton Variety Test

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National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

2003 WESTERN REGIONAL COTTON VARIETY TEST

WESTERN
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1196	STV 4892 BR	1313	4.00	40.6	9.8	115	0.50	19.3	193	7.3
1152	DPL 458 BG/RR	1290	3.85	39.5	8.0	113	0.50	19.7	197	7.7
1129	ACALA W 1218	1193	4.30	37.9	10.4	135	0.55	21.5	215	7.5
1166	PHYTOGEN 72	1191	4.30	38.7	9.7	149	0.56	24.5	245	8.0
1197	NM 970123	1103	4.40	40.5	10.1	158	0.57	26.3	264	6.5
1128	ACALA 1517-99	1060	4.45	37.5	10.8	149	0.56	24.7	248	7.5
874	ACALA 1517-95	996	4.40	35.7	11.5	145	0.54	24.1	241	6.3
1167	NM 970513	945	4.10	35.6	10.8	159	0.56	25.9	260	6.0
1019	ALL TEX ATLAS	915	4.40	35.8	10.5	128	0.52	20.7	207	7.7

VARIETY CODE	VARIETY NAME	MICRONAIRE (reading)	SL-HVI Starlab 2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITROGEN (%)
1196	STV 4892 BR	5.40	.	.	.	.	.	.	.	1821	18.27	2.90
1152	DPL 458 BG/RR	5.10	.	.	.	.	.	.	.	2144	17.90	2.95
1129	ACALA W 1218	4.30	.	.	.	.	.	.	.	2140	19.39	2.85
1166	PHYTOGEN 72	4.60	.	.	.	.	.	.	.	2120	21.57	3.15
1197	NM 970123	4.60	.	.	.	.	.	.	.	1558	15.71	3.45
1128	ACALA 1517-99	4.30	.	.	.	.	.	.	.	1882	20.51	3.15
874	ACALA 1517-95	4.80	.	.	.	.	.	.	.	1926	21.22	2.85
1167	NM 970513	4.55	.	.	.	.	.	.	.	1809	20.48	3.10
1019	ALL TEX ATLAS	5.00	.	.	.	.	.	.	.	1785	20.46	3.10

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER A (mm2/mm3)	AREALOMETER D (mm2/mm3)	AREALOMETER I	AREALOMETER M (%)	AREALOMETER p (microns)	AREALOMETER w (mg/in)	AREALOMETER t (microns)

1196	STV 4892 BR	0.92	0.67	1.59	359	17.5	1.50	93	52.20	5.63	3.6
1152	DPL 458 BG/RR	0.68	0.56	1.23	385	15.8	1.45	96	47.32	4.76	3.4
1129	ACALA W 1218	0.71	0.52	1.23	.	.	.	.	.	.	.
1166	PHYTOGEN 72	0.75	0.59	1.34	.	.	.	.	.	.	.
1197	NM 970123	0.63	0.43	1.06	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.75	0.56	1.31	444	20.0	1.56	92	43.88	3.82	2.9
874	ACALA 1517-95	0.71	0.54	1.25	.	.	.	.	.	.	.
1167	NM 970513	0.69	0.52	1.21	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	0.83	0.62	1.45	381	16.8	1.48	94	48.69	4.95	3.4

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
ACALA 1517-99	4.45	STV 4892 BR	40.6	ACALA 1517-95	11.5
ACALA 1517-95	4.40	NM 970123	40.5	NM 970513	10.8
ALL TEX ATLAS	4.40	DPL 458 BG/RR	39.5	ACALA 1517-99	10.8
NM 970123	4.40	PHYTOGEN 72	38.7	ALL TEX ATLAS	10.5
ACALA W 1218	4.30	ACALA W 1218	37.9	ACALA W 1218	10.4
PHYTOGEN 72	4.30	ACALA 1517-99	37.5	NM 970123	10.1
NM 970513	4.10	ALL TEX ATLAS	35.8	STV 4892 BR	9.8
STV 4892 BR	4.00	ACALA 1517-95	35.7	PHYTOGEN 72	9.7
DPL 458 BG/RR	3.85	NM 970513	35.6	DPL 458 BG/RR	8.0

2.5% S.L. (INCHES)		UR (PERCENT)		STRENGTH (G/TEX)	
ACALA 1517-95	.	ACALA 1517-95	.	ACALA 1517-95	.
NM 970513	.	NM 970513	.	NM 970513	.
ACALA 1517-99	.	ACALA 1517-99	.	ACALA 1517-99	.
ALL TEX ATLAS	.	ALL TEX ATLAS	.	ALL TEX ATLAS	.
ACALA W 1218	.	ACALA W 1218	.	ACALA W 1218	.
NM 970123	.	NM 970123	.	NM 970123	.
STV 4892 BR	.	STV 4892 BR	.	STV 4892 BR	.
PHYTOGEN 72	.	PHYTOGEN 72	.	PHYTOGEN 72	.
DPL 458 BG/RR	.	DPL 458 BG/RR	.	DPL 458 BG/RR	.

E		MICRONAIRE (SL-HVI)		COLORIMETER - Rd	
ACALA 1517-95	.	ACALA 1517-95	.	ACALA 1517-95	.
NM 970513	.	NM 970513	.	NM 970513	.
ACALA 1517-99	.	ACALA 1517-99	.	ACALA 1517-99	.
ALL TEX ATLAS	.	ALL TEX ATLAS	.	ALL TEX ATLAS	.
ACALA W 1218	.	ACALA W 1218	.	ACALA W 1218	.
NM 970123	.	NM 970123	.	NM 970123	.
STV 4892 BR	.	STV 4892 BR	.	STV 4892 BR	.
PHYTOGEN 72	.	PHYTOGEN 72	.	PHYTOGEN 72	.
DPL 458 BG/RR	.	DPL 458 BG/RR	.	DPL 458 BG/RR	.

COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
ACALA 1517-95	.	STV 4892 BR	5.40	PHYTOGEN 72	8.0
NM 970513	.	DPL 458 BG/RR	5.10	DPL 458 BG/RR	7.7

ACALA 1517-99	.
ALL TEX ATLAS	.
ACALA W 1218	.
NM 970123	.
STV 4892 BR	.
PHYTOGEN 72	.
DPL 458 BG/RR	.

ALL TEX ATLAS	5.00
ACALA 1517-95	4.80
NM 970123	4.60
PHYTOGEN 72	4.60
NM 970513	4.55
ACALA 1517-99	4.30
ACALA W 1218	4.30

ALL TEX ATLAS	7.7
ACALA 1517-99	7.5
ACALA W 1218	7.5
STV 4892 BR	7.3
NM 970123	6.5
ACALA 1517-95	6.3
NM 970513	6.0

STELOMETER - T1	
NM 970123	264
NM 970513	260
ACALA 1517-99	248
PHYTOGEN 72	245
ACALA 1517-95	241
ACALA W 1218	215
ALL TEX ATLAS	207
DPL 458 BG/RR	197
STV 4892 BR	193

FIBROGRAPH--50% S.L.	
NM 970123	26.3
NM 970513	25.9
ACALA 1517-99	24.7
PHYTOGEN 72	24.5
ACALA 1517-95	24.1
ACALA W 1218	21.5
ALL TEX ATLAS	20.7
DPL 458 BG/RR	19.7
STV 4892 BR	19.3

FIBROGRAPH--2.5% S.L.	
NM 970123	0.57
NM 970513	0.56
ACALA 1517-99	0.56
PHYTOGEN 72	0.56
ACALA W 1218	0.55
ACALA 1517-95	0.54
ALL TEX ATLAS	0.52
DPL 458 BG/RR	0.50
STV 4892 BR	0.50

YARN TENACITY	
NM 970513	159
NM 970123	158
ACALA 1517-99	149
PHYTOGEN 72	149
ACALA 1517-95	145
ACALA W 1218	135
ALL TEX ATLAS	128
STV 4892 BR	115
DPL 458 BG/RR	113

AREALOMETER - A (mm2/mm3)	
ACALA 1517-99	444
DPL 458 BG/RR	385
ALL TEX ATLAS	381
STV 4892 BR	359
NM 970513	.
NM 970123	.
PHYTOGEN 72	.
ACALA 1517-95	.
ACALA W 1218	.

AREALOMETER - D (mm2/mm3)	
ACALA 1517-99	20.0
STV 4892 BR	17.5
ALL TEX ATLAS	16.8
DPL 458 BG/RR	15.8
NM 970513	.
NM 970123	.
PHYTOGEN 72	.
ACALA 1517-95	.
ACALA W 1218	.

AREALOMETER - I	
ACALA 1517-99	1.56
STV 4892 BR	1.50
ALL TEX ATLAS	1.48
DPL 458 BG/RR	1.45
NM 970513	.
NM 970123	.
PHYTOGEN 72	.
ACALA 1517-95	.
ACALA W 1218	.

AREALOMETER - M (PERCENT)	
DPL 458 BG/RR	96
ALL TEX ATLAS	94
STV 4892 BR	93
ACALA 1517-99	92
NM 970513	.
NM 970123	.
PHYTOGEN 72	.
ACALA 1517-95	.
ACALA W 1218	.

AREALOMETER - p (Microns)	
STV 4892 BR	52.20
ALL TEX ATLAS	48.69
DPL 458 BG/RR	47.32
ACALA 1517-99	43.88
NM 970513	.
NM 970123	.
PHYTOGEN 72	.
ACALA 1517-95	.
ACALA W 1218	.

AREALOMETER - w (MG/INCH)	
STV 4892 BR	5.63
ALL TEX ATLAS	4.95
DPL 458 BG/RR	4.76
ACALA 1517-99	3.82
NM 970513	.
NM 970123	.
PHYTOGEN 72	.
ACALA 1517-95	.

AREALOMETER - t (MICRONS)	
STV 4892 BR	3.6
ALL TEX ATLAS	3.4
DPL 458 BG/RR	3.4
ACALA 1517-99	2.9
NM 970513	.
NM 970123	.
PHYTOGEN 72	.
ACALA 1517-95	.

SEED YIELD (LB/ACRE)	
DPL 458 BG/RR	2144
ACALA W 1218	2140
PHYTOGEN 72	2120
ACALA 1517-95	1926
ACALA 1517-99	1882
STV 4892 BR	1821
NM 970513	1809
ALL TEX ATLAS	1785

ACALA W 1218	.	ACALA W 1218	.	NM 970123	1558

OIL (PERCENT)		NITROGEN (PERCENT)		PLUS GOSSYPOL	
PHYTOGEN 72	21.57	NM 970123	3.45	STV 4892 BR	0.92
ACALA 1517-95	21.22	PHYTOGEN 72	3.15	ALL TEX ATLAS	0.83
ACALA 1517-99	20.51	ACALA 1517-99	3.15	PHYTOGEN 72	0.75
NM 970513	20.48	ALL TEX ATLAS	3.10	ACALA 1517-99	0.75
ALL TEX ATLAS	20.46	NM 970513	3.10	ACALA W 1218	0.71
ACALA W 1218	19.39	DPL 458 BG/RR	2.95	ACALA 1517-95	0.71
STV 4892 BR	18.27	STV 4892 BR	2.90	NM 970513	0.69
DPL 458 BG/RR	17.90	ACALA 1517-95	2.85	DPL 458 BG/RR	0.68
NM 970123	15.71	ACALA W 1218	2.85	NM 970123	0.63

MINUS GOSSYPOL		TOTAL GOSSYPOL (PERCENT)	
STV 4892 BR	0.67	STV 4892 BR	1.59
ALL TEX ATLAS	0.62	ALL TEX ATLAS	1.45
PHYTOGEN 72	0.59	PHYTOGEN 72	1.34
ACALA 1517-99	0.56	ACALA 1517-99	1.31
DPL 458 BG/RR	0.56	ACALA 1517-95	1.25
ACALA 1517-95	0.54	DPL 458 BG/RR	1.23
NM 970513	0.52	ACALA W 1218	1.23
ACALA W 1218	0.52	NM 970513	1.21
NM 970123	0.43	NM 970123	1.06

WESTERN
LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
PECOS, TX (IRR)	1112	4.24	37.9	10.2	139	0.54	22.9	230	7.2

LOCATION	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
PECOS, TX (IRR)	4.74	.	.	.	.	.	.	.	1909	19.50	3.06

LOCATION	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
PECOS, TX (IRR)	0.74	0.55	1.29	392	17.5	1.49	94	48.02	4.79	3.3

PECOS, TX (IRR)
VARIETIES COMBINING LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1196	STV 4892 BR	1313	4.00	40.6	9.8	115	0.50	19.3	193	7.3
1152	DPL 458 BG/RR	1290	3.85	39.5	8.0	113	0.50	19.7	197	7.7
1129	ACALA W 1218	1193	4.30	37.9	10.4	135	0.55	21.5	215	7.5
1166	PHYTOGEN 72	1191	4.30	38.7	9.7	149	0.56	24.5	245	8.0
1197	NM 970123	1103	4.40	40.5	10.1	158	0.57	26.3	264	6.5
1128	ACALA 1517-99	1060	4.45	37.5	10.8	149	0.56	24.7	248	7.5
874	ACALA 1517-95	996	4.40	35.7	11.5	145	0.54	24.1	241	6.3
1167	NM 970513	945	4.10	35.6	10.8	159	0.56	25.9	260	6.0
1019	ALL TEX ATLAS	915	4.40	35.8	10.5	128	0.52	20.7	207	7.7
.	LSD	180	0.59	1.3	0.7	6	0.03	1.70	17	1.1

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	5.40	.	.	.	.	.	.	.	1821	18.27	2.90
1152	DPL 458 BG/RR	5.10	.	.	.	.	.	.	.	2144	17.90	2.95
1129	ACALA W 1218	4.30	.	.	.	.	.	.	.	2140	19.39	2.85
1166	PHYTOGEN 72	4.60	.	.	.	.	.	.	.	2120	21.57	3.15
1197	NM 970123	4.60	.	.	.	.	.	.	.	1558	15.71	3.45
1128	ACALA 1517-99	4.30	.	.	.	.	.	.	.	1882	20.51	3.15
874	ACALA 1517-95	4.80	.	.	.	.	.	.	.	1926	21.22	2.85
1167	NM 970513	4.55	.	.	.	.	.	.	.	1809	20.48	3.10
1019	ALL TEX ATLAS	5.00	.	.	.	.	.	.	.	1785	20.46	3.10
.	LSD	0.27	.	.	.	.	.	.	.	486	1.26	0.49

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	0.92	0.67	1.59	359	17.5	1.50	93	52.20	5.63	3.6
1152	DPL 458 BG/RR	0.68	0.56	1.23	385	15.8	1.45	96	47.32	4.76	3.4
1129	ACALA W 1218	0.71	0.52	1.23	.	.	.	.	.	.	.
1166	PHYTOGEN 72	0.75	0.59	1.34	.	.	.	.	.	.	.
1197	NM 970123	0.63	0.43	1.06	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.75	0.56	1.31	444	20.0	1.56	92	43.88	3.82	2.9
874	ACALA 1517-95	0.71	0.54	1.25	.	.	.	.	.	.	.
1167	NM 970513	0.69	0.52	1.21	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	0.83	0.62	1.45	381	16.8	1.48	94	48.69	4.95	3.4
.	LSD	0.12	0.12	0.23	20.3	11.7	0.29	10	7.90	0.76	0.4

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2003 National Cotton Variety Test

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National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

2003 HIGH QUALITY REGIONAL COTTON VARIETY TEST

REGION=HIGH QUALITY BOTH REGIONS COMBINED
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1241	DP 444 BR	1225	5.05	41.6	9.7	142	0.56	21.6	217	7.1
1238	FM 960	1207	5.47	39.8	10.5	124	0.55	20.7	208	7.6
1243	SYNGENTA N 2429	1199	4.88	40.1	10.4	143	0.56	22.3	224	6.8
1224	DP 555 R/R	1197	4.79	43.6	7.9	126	0.54	20.1	202	6.3
1158	PSC 355	1191	4.96	40.0	10.0	139	0.55	20.9	210	6.3
1196	STV 4892 BR	1188	5.24	41.7	10.2	129	0.54	20.8	208	7.6
1239	FM 958Bt	1186	5.11	40.9	10.3	127	0.55	20.4	204	6.9
1248	STX 108	1161	5.52	40.1	10.9	128	0.56	20.0	201	9.0
1140	DELTA PEARL	1145	4.67	41.1	8.8	119	0.54	20.0	201	7.2

1240	FM 800	1127	5.52	40.1	10.6	123	0.53	20.5	205	7.8
1242	AR 9203-17-12	1105	5.31	39.0	10.4	141	0.56	22.7	227	5.4
1152	DPL 458 BG/RR	1096	4.77	39.1	8.7	134	0.55	21.6	216	7.7
1201	DPL 491	1080	5.10	42.0	9.5	124	0.55	20.4	205	7.3
1245	GA 98 0 66	1051	5.39	38.7	10.3	134	0.57	20.8	209	7.1
1249	FM 832 LL	1051	5.65	38.9	10.7	130	0.56	19.7	197	9.0
1246	MD 832n	976	4.99	39.1	10.0	132	0.57	21.1	212	8.0
1230	TAM 96 WD-18	968	5.50	37.5	11.8	119	0.56	18.8	188	9.3
1247	STX 104	941	4.80	37.9	9.6	134	0.57	20.8	208	8.6
1128	ACALA 1517-99	926	4.91	38.2	11.0	141	0.56	23.0	230	7.1
1244	GA 200009	911	5.35	38.9	10.3	138	0.56	21.8	218	6.9
.	LSD	281	0.72	1.7	0.8	21	0.03	3.10	31	1.8

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
							COLORIMETER HUNTER'S					
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1241	DP 444 BR	4.24	1.10	83.9	29.0	7.9	72.3	7.8	3.99	1723	20.78	3.24
1238	FM 960	4.43	1.11	83.4	35.6	7.8	73.4	7.2	4.34	1828	19.81	3.01
1243	SYNGENTA N 2429	4.31	1.11	85.0	32.3	9.0	69.4	7.5	4.71	1754	20.07	3.24
1224	DP 555 R/R	4.34	1.11	83.1	28.0	7.4	73.8	7.0	4.50	1483	17.59	3.18
1158	PSC 355	4.47	1.11	84.1	30.6	8.8	71.3	7.6	4.83	1789	20.25	3.14
1196	STV 4892 BR	4.45	1.09	83.6	30.6	8.6	71.8	8.1	4.84	1705	18.58	3.04
1239	FM 958Bt	4.78	1.09	83.3	34.8	8.0	72.9	7.4	4.29	1712	20.64	2.99
1248	STX 108	4.71	1.11	84.0	29.1	8.0	73.0	7.5	4.54	1771	19.55	3.27
1140	DELTA PEARL	4.75	1.13	82.9	30.4	7.6	74.9	6.8	4.65	1687	17.62	3.18
1240	FM 800	4.61	1.20	84.5	32.3	7.9	73.6	7.1	3.99	1715	19.90	3.13
1242	AR 9203-17-12	4.38	1.15	84.2	34.0	7.8	72.4	7.8	4.20	1726	19.59	3.19
1152	DPL 458 BG/RR	4.38	1.09	82.8	30.4	8.4	75.0	7.5	4.75	1744	17.96	3.13
1201	DPL 491	4.49	1.19	83.4	31.5	7.8	73.0	8.0	4.54	1450	17.73	3.04
1245	GA 98 0 66	4.29	1.14	83.9	33.6	8.2	70.8	7.5	4.43	1637	19.04	3.13
1249	FM 832 LL	4.31	1.20	83.8	31.6	7.6	73.1	6.6	4.19	1677	19.62	3.09
1246	MD 832n	4.22	1.18	83.8	31.9	7.7	71.6	7.1	4.09	1545	19.26	3.06
1230	TAM 96 WD-18	4.64	1.19	84.3	30.9	8.3	71.4	7.8	4.33	1613	20.96	3.27
1247	STX 104	4.10	1.13	83.5	33.9	7.9	72.8	7.8	4.74	1504	19.85	3.09
1128	ACALA 1517-99	4.29	1.20	84.0	34.6	8.1	71.1	7.7	4.00	1514	19.62	3.28
1244	GA 200009	4.30	1.15	84.0	33.3	8.1	72.1	7.8	4.58	1441	17.51	3.22

. LSD	0.60	0.06	1.5	2.4	0.5	3.2	0.9	0.41	389	1.60	0.43

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1241	DP 444 BR	0.88	0.54	1.42	454	21.3	1.57	90	43.66	3.76	2.8
1238	FM 960	0.70	0.54	1.25	441	23.4	1.61	89	46.01	4.13	2.9
1243	SYNGENTA N 2429	0.95	0.59	1.53	449	22.8	1.61	89	44.86	3.89	2.8
1224	DP 555 R/R	0.67	0.49	1.15	443	22.6	1.60	89	45.55	4.03	2.9
1158	PSC 355	0.97	0.60	1.57	427	16.2	1.46	95	42.92	3.91	3.1
1196	STV 4892 BR	0.96	0.65	1.61	455	25.9	1.66	87	45.94	3.99	2.8
1239	FM 958Bt	0.66	0.55	1.21	406	19.1	1.53	92	47.42	4.54	3.1
1248	STX 108	0.88	0.54	1.42	425	26.2	1.68	86	49.75	4.57	2.9
1140	DELTA PEARL	0.71	0.52	1.22	422	22.1	1.59	90	47.50	4.44	3.0
1240	FM 800	0.62	0.49	1.11	433	26.9	1.69	86	48.78	4.39	2.9
1242	AR 9203-17-12	0.86	0.57	1.43	430	18.0	1.50	93	44.00	4.02	3.0
1152	DPL 458 BG/RR	0.80	0.59	1.39	451	20.4	1.55	91	42.90	3.72	2.9
1201	DPL 491	0.82	0.69	1.49	431	21.9	1.59	90	46.27	4.18	2.9
1245	GA 98 0 66	0.88	0.64	1.51	451	28.7	1.72	85	48.09	4.21	2.8
1249	FM 832 LL	0.54	0.45	0.99	448	28.5	1.72	85	48.29	4.23	2.8
1246	MD 832n	0.70	0.54	1.24	460	27.7	1.71	85	46.96	4.04	2.7
1230	TAM 96 WD-18	0.79	0.52	1.31	423	25.3	1.65	87	49.10	4.56	3.0
1247	STX 104	0.88	0.49	1.37	470	30.0	1.74	84	46.69	3.93	2.7
1128	ACALA 1517-99	0.74	0.53	1.26	485	24.7	1.65	88	42.73	3.43	2.6
1244	GA 200009	0.78	0.55	1.32	451	24.4	1.64	88	45.74	3.97	2.8
.	LSD	0.16	0.11	0.26	61.1	11.8	0.24	9	5.62	0.85	0.5

---------- reg=71 REGION=HIGH QUALITY ----------

VARIETIES COMBINING LOCATIONS

VARIETY	VARIETY	LINT YIELD	BOLL SIZE	LINT	SEED	YARN TENACITY	DIGITAL FIBROGRAPH 2.5% S.L.	50% S.L.	STELOMETER T1	E1

CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
1224	DP 555 R/R	1245	4.69	43.7	7.8	126	0.55	20.3	204	6.1
1238	FM 960	1244	5.59	40.1	10.6	122	0.55	20.6	207	7.4
1243	SYNGENTA N 2429	1229	4.92	40.2	10.4	141	0.57	22.6	227	6.9
1241	DP 444 BR	1222	5.14	41.5	9.8	136	0.57	21.4	214	7.0
1239	FM 958Bt	1216	5.12	40.9	10.3	126	0.56	20.0	200	6.9
1140	DELTA PEARL	1207	4.67	41.2	8.7	115	0.54	19.9	199	7.2
1196	STV 4892 BR	1204	5.27	41.8	10.3	125	0.54	20.5	205	7.4
1158	PSC 355	1203	4.97	40.2	10.0	135	0.54	20.7	207	6.2
1240	FM 800	1183	5.59	40.2	10.7	119	0.53	20.1	201	7.6
1248	STX 108	1160	5.41	40.3	11.0	123	0.55	19.5	195	8.7
1152	DPL 458 BG/RR	1132	4.72	39.0	8.7	129	0.55	21.0	211	7.8
1201	DPL 491	1132	5.20	42.2	9.5	119	0.55	19.7	198	7.2
1242	AR 9203-17-12	1124	5.35	39.1	10.4	135	0.56	22.1	221	5.5
1249	FM 832 LL	1089	5.71	39.4	10.7	126	0.57	19.3	193	9.0
1245	GA 98 0 66	1087	5.36	38.8	10.3	133	0.57	20.7	207	7.1
1246	MD 832n	998	5.08	39.3	10.2	129	0.57	20.9	209	7.8
1230	TAM 96 WD-18	981	5.57	37.6	12.0	116	0.56	18.7	187	9.0
1128	ACALA 1517-99	965	5.05	38.4	11.0	138	0.56	22.6	227	7.0
1244	GA 200009	952	5.25	38.9	10.4	134	0.56	21.6	217	7.1
1247	STX 104	945	4.73	37.9	9.7	129	0.57	20.4	204	8.2
.	LSD	299	0.68	1.8	0.8	23	0.03	3.38	34	1.9

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
		MICRO-	2.5%	UNIFO-	STRE-	COLORIMETER			MICRO-	SEED		NITR
VARIETY	VARIETY	NAIRE	S.L.	MITY	NGTH	HUNTER'S			NAIRE	YIELD	OIL	OGEN
CODE	NAME	(reading)	(in.)	(%)	(g/tex)	E	Rd	b	(Reading)	(lb/ac)	(%)	(%)
1224	DP 555 R/R	4.39	1.10	83.1	27.5	7.5	72.5	6.5	4.62	1512	17.89	3.14
1238	FM 960	4.44	1.10	83.4	35.8	7.9	72.3	6.7	4.58	1891	19.89	2.91
1243	SYNGENTA N 2429	4.36	1.10	84.8	32.5	9.1	67.8	7.1	4.93	1791	20.40	3.23
1241	DP 444 BR	4.26	1.10	83.8	29.7	8.0	70.8	7.4	4.22	1745	21.15	3.17
1239	FM 958Bt	4.75	1.08	83.1	35.3	8.1	72.7	7.0	4.57	1750	21.06	2.92
1140	DELTA PEARL	4.83	1.13	82.9	30.7	7.6	74.2	6.3	4.82	1773	17.75	3.08
1196	STV 4892 BR	4.56	1.08	83.6	30.2	8.6	70.7	7.7	5.07	1749	19.05	3.01
1158	PSC 355	4.61	1.10	83.8	31.0	8.8	70.2	7.1	5.03	1798	20.43	3.07
1240	FM 800	4.66	1.20	84.4	32.8	8.0	72.0	6.8	4.28	1813	20.37	3.04

1248	STX 108	4.80	1.10	83.9	29.5	8.1	71.8	7.0	4.72	1732	19.90	3.21
1152	DPL 458 BG/RR	4.51	1.08	82.7	30.3	8.4	74.5	7.0	4.95	1803	18.16	3.10
1201	DPL 491	4.54	1.18	83.2	31.5	7.7	72.2	7.6	4.75	1512	17.99	2.95
1242	AR 9203-17-12	4.53	1.13	84.0	34.5	8.0	70.8	7.3	4.48	1762	19.99	3.15
1249	FM 832 LL	4.48	1.20	83.8	32.5	7.7	71.8	6.1	4.48	1717	20.05	3.04
1245	GA 98 0 66	4.24	1.12	83.6	34.2	8.3	69.0	7.1	4.62	1690	19.46	3.09
1246	MD 832n	4.21	1.17	83.5	32.0	7.8	70.3	6.7	4.37	1584	19.53	3.01
1230	TAM 96 WD-18	4.73	1.18	83.6	30.8	8.3	70.2	7.4	4.52	1654	21.17	3.23
1128	ACALA 1517-99	4.51	1.20	84.2	34.8	8.2	69.7	7.2	4.18	1558	19.85	3.25
1244	GA 200009	4.41	1.13	84.0	34.0	8.2	71.3	7.3	4.83	1520	17.86	3.20
1247	STX 104	4.20	1.10	83.1	34.2	8.0	71.8	7.5	5.08	1483	20.42	2.98
.	LSD	0.58	0.06	1.6	2.3	0.5	3.4	1.1	0.42	396	1.65	0.45

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1224	DP 555 R/R	0.68	0.50	1.18	440	22.0	1.59	90	45.43	4.05	2.9
1238	FM 960	0.70	0.56	1.26	442	23.3	1.61	89	45.78	4.12	2.9
1243	SYNGENTA N 2429	0.96	0.60	1.56	442	20.9	1.57	91	44.49	3.92	2.9
1241	DP 444 BR	0.91	0.56	1.46	451	23.0	1.61	89	45.00	3.90	2.8
1239	FM 958Bt	0.67	0.57	1.25	406	19.3	1.54	92	47.52	4.55	3.1
1140	DELTA PEARL	0.73	0.54	1.27	418	21.5	1.57	90	47.59	4.51	3.1
1196	STV 4892 BR	0.99	0.67	1.66	453	25.0	1.64	88	45.41	3.99	2.9
1158	PSC 355	0.99	0.61	1.60	417	14.9	1.43	96	43.01	4.01	3.2
1240	FM 800	0.63	0.51	1.15	430	26.4	1.67	87	48.69	4.42	2.9
1248	STX 108	0.89	0.56	1.45	420	25.4	1.67	87	49.89	4.64	3.0
1152	DPL 458 BG/RR	0.81	0.61	1.43	443	17.8	1.49	94	42.04	3.73	3.0
1201	DPL 491	0.85	0.72	1.55	426	20.2	1.55	91	45.82	4.20	3.0
1242	AR 9203-17-12	0.87	0.58	1.45	415	17.1	1.48	94	44.84	4.23	3.2
1249	FM 832 LL	0.56	0.48	1.03	432	26.4	1.68	87	48.75	4.41	2.9
1245	GA 98 0 66	0.90	0.65	1.55	454	28.6	1.71	85	47.60	4.16	2.8
1246	MD 832n	0.72	0.56	1.28	462	27.3	1.70	85	46.61	4.01	2.7
1230	TAM 96 WD-18	0.80	0.53	1.33	416	24.1	1.63	88	49.19	4.65	3.1
1128	ACALA 1517-99	0.76	0.55	1.31	465	21.1	1.58	91	42.52	3.55	2.7
1244	GA 200009	0.80	0.56	1.36	444	23.0	1.61	89	45.69	4.05	2.9
1247	STX 104	0.92	0.52	1.44	463	29.5	1.73	85	47.03	4.04	2.7
.	LSD	0.18	0.12	0.29	65.9	13.0	0.26	10	6.25	0.96	0.5

---------- reg=72 REGION=HIGH QUALITY ----------
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1241	DP 444 BR	1239	4.62	42.0	9.1	165	0.56	22.7	228	7.5
1248	STX 108	1167	6.04	39.0	10.5	145	0.56	22.2	223	10.0
1158	PSC 355	1129	4.96	39.0	10.0	156	0.55	21.8	219	6.7
1196	STV 4892 BR	1107	5.11	41.3	9.8	142	0.55	22.0	220	8.0
1243	SYNGENTA N 2429	1045	4.69	39.7	10.1	151	0.55	21.3	213	6.4
1239	FM 958Bt	1039	5.07	41.0	10.2	131	0.55	22.0	220	6.8
1238	FM 960	1020	4.91	38.3	10.4	132	0.55	21.2	212	8.3
1242	AR 9203-17-12	1006	5.10	38.6	10.2	167	0.56	25.0	250	5.1
1224	DP 555 R/R	959	5.26	42.7	8.1	128	0.54	19.4	195	7.1
1247	STX 104	919	5.16	37.7	9.3	156	0.57	22.4	226	10.0
1152	DPL 458 BG/RR	917	5.01	40.0	8.6	154	0.54	23.9	240	7.4
1230	TAM 96 WD-18	903	5.18	37.2	10.9	130	0.57	19.1	191	10.5
1245	GA 98 0 66	871	5.54	38.5	10.5	142	0.55	21.4	215	7.0
1246	MD 832n	868	4.53	38.4	9.4	147	0.55	22.3	224	8.8
1249	FM 832 LL	862	5.35	36.6	10.5	146	0.56	21.3	214	9.2
1240	FM 800	845	5.18	39.5	9.9	139	0.55	22.3	224	8.8
1140	DELTA PEARL	839	4.68	40.3	9.0	133	0.54	20.5	206	7.3
1201	DPL 491	819	4.61	41.3	9.7	144	0.54	23.1	232	7.7
1128	ACALA 1517-99	733	4.23	37.3	10.5	157	0.56	24.3	244	7.4
1244	GA 200009	704	5.86	38.7	9.9	158	0.56	22.4	225	6.4

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1241	DP 444 BR	4.15	1.10	84.3	27.0	7.5	76.5	9.1	3.30	1614	18.93	3.60

1248	STX 108	4.35	1.15	84.5	28.0	7.7	76.5	9.0	4.00	1963	17.78	3.55
1158	PSC 355	3.90	1.15	84.9	29.5	8.9	74.5	9.2	4.20	1744	19.35	3.50
1196	STV 4892 BR	4.00	1.10	83.8	32.0	8.6	75.0	9.5	4.15	1483	16.22	3.20
1243	SYNGENTA N 2429	4.10	1.15	85.5	31.5	8.7	74.0	8.9	4.05	1571	18.40	3.30
1239	FM 958Bt	4.90	1.10	83.8	33.0	7.9	73.5	8.7	3.45	1521	18.57	3.35
1238	FM 960	4.40	1.15	83.7	35.0	7.7	76.5	8.7	3.60	1517	19.45	3.50
1242	AR 9203-17-12	3.80	1.20	84.7	32.5	7.5	77.0	9.3	3.35	1542	17.60	3.40
1224	DP 555 R/R	4.15	1.15	83.2	29.5	7.3	77.5	8.5	4.15	1338	16.06	3.40
1247	STX 104	3.70	1.20	84.5	33.0	7.7	75.5	8.9	3.70	1607	17.02	3.65
1152	DPL 458 BG/RR	3.85	1.10	83.3	30.5	8.4	76.5	8.8	4.15	1448	16.94	3.25
1230	TAM 96 WD-18	4.30	1.20	86.2	31.0	8.3	75.0	9.1	3.75	1406	19.91	3.45
1245	GA 98 0 66	4.50	1.20	85.1	32.0	7.8	76.0	8.7	3.85	1371	16.91	3.35
1246	MD 832n	4.25	1.20	84.8	31.5	7.5	75.5	8.2	3.25	1351	17.91	3.30
1249	FM 832 LL	3.65	1.20	83.9	29.0	7.4	77.0	8.2	3.30	1478	17.49	3.35
1240	FM 800	4.40	1.20	84.8	30.5	7.7	78.5	8.1	3.10	1222	17.60	3.60
1140	DELTA PEARL	4.45	1.10	83.0	29.5	7.5	77.0	8.4	4.15	1255	16.95	3.70
1201	DPL 491	4.30	1.20	84.0	31.5	7.9	75.5	9.2	3.90	1141	16.46	3.50
1128	ACALA 1517-99	3.40	1.20	83.3	34.0	7.8	75.5	9.5	3.45	1293	18.48	3.45
1244	GA 200009	3.85	1.20	84.0	31.0	7.8	74.5	9.3	3.80	1047	15.74	3.30

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1241	DP 444 BR	0.78	0.44	1.22	463	14.3	1.42	97	38.29	3.20	2.8
1248	STX 108	0.80	0.45	1.25	445	29.0	1.74	84	49.17	4.27	2.8
1158	PSC 355	0.89	0.52	1.41	466	21.3	1.58	90	42.55	3.53	2.7
1196	STV 4892 BR	0.84	0.53	1.37	458	28.5	1.73	85	47.52	4.01	2.7
1243	SYNGENTA N 2429	0.89	0.51	1.40	478	30.3	1.77	84	46.36	3.75	2.6
1239	FM 958Bt	0.57	0.45	1.02	404	18.3	1.51	93	47.00	4.52	3.2
1238	FM 960	0.71	0.48	1.19	437	23.8	1.64	88	46.96	4.16	2.9
1242	AR 9203-17-12	0.82	0.50	1.32	492	21.8	1.60	90	40.63	3.20	2.6
1224	DP 555 R/R	0.62	0.40	1.01	453	25.0	1.66	87	46.04	3.93	2.8
1247	STX 104	0.70	0.33	1.03	498	32.0	1.80	82	45.32	3.52	2.5
1152	DPL 458 BG/RR	0.73	0.51	1.23	475	28.3	1.73	85	45.49	3.70	2.6
1230	TAM 96 WD-18	0.74	0.47	1.20	451	29.8	1.76	84	48.76	4.22	2.7
1245	GA 98 0 66	0.77	0.55	1.31	439	29.3	1.75	84	50.03	4.41	2.8
1246	MD 832n	0.59	0.42	1.01	452	29.0	1.74	84	48.37	4.14	2.7
1249	FM 832 LL	0.44	0.32	0.76	512	36.8	1.89	79	46.43	3.51	2.3

1240	FM 800	0.56	0.39	0.95	445	28.8	1.74	84	49.15	4.28	2.8
1140	DELTA PEARL	0.60	0.38	0.98	438	24.5	1.65	88	47.12	4.17	2.8
1201	DPL 491	0.69	0.53	1.22	453	28.8	1.74	84	48.07	4.10	2.7
1128	ACALA 1517-99	0.62	0.40	1.02	524	31.8	1.80	82	43.14	3.19	2.3
1244	GA 200009	0.68	0.46	1.14	482	30.0	1.76	84	45.94	3.69	2.6

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
FM 832 LL	5.65	PD 5582 SEL	44.9	TAM 96 WD-18	11.8
FM 800	5.52	DP 555 R/R	43.6	ACALA 1517-99	11.0
STX 108	5.52	DPL 491	42.0	STX 108	10.9
TAM 96 WD-18	5.50	STV 4892 BR	41.7	FM 832 LL	10.7
FM 960	5.47	DP 444 BR	41.6	FM 800	10.6
GA 98 0 66	5.39	DELTA PEARL	41.1	FM 960	10.5
GA 200009	5.35	FM 958Bt	40.9	SYNGENTA N 2429	10.4
AR 9203-17-12	5.31	SYNGENTA N 2429	40.1	AR 9203-17-12	10.4
STV 4892 BR	5.24	FM 800	40.1	GA 98 0 66	10.3
FM 958Bt	5.11	STX 108	40.1	GA 200009	10.3
DPL 491	5.10	PSC 355	40.0	FM 958Bt	10.3
DP 444 BR	5.05	FM 960	39.8	STV 4892 BR	10.2
PD 5582 SEL	5.00	MD 832n	39.1	MD 832n	10.0
MD 832n	4.99	DPL 458 BG/RR	39.1	PSC 355	10.0
PSC 355	4.96	AR 9203-17-12	39.0	DP 444 BR	9.7
ACALA 1517-99	4.91	FM 832 LL	38.9	STX 104	9.6
SYNGENTA N 2429	4.88	GA 200009	38.9	DPL 491	9.5
STX 104	4.80	GA 98 0 66	38.7	DELTA PEARL	8.8
DP 555 R/R	4.79	ACALA 1517-99	38.2	DPL 458 BG/RR	8.7
DPL 458 BG/RR	4.77	STX 104	37.9	PD 5582 SEL	8.0
DELTA PEARL	4.67	TAM 96 WD-18	37.5	DP 555 R/R	7.9
LSD	0.72	LSD	1.7	LSD	0.8

2.5% S.L. (INCHES)	UR (PERCENT)	STRENGTH (G/TEX)

ACALA 1517-99	1.20
FM 832 LL	1.20
FM 800	1.20
TAM 96 WD-18	1.19
DPL 491	1.19
MD 832n	1.18
AR 9203-17-12	1.15
GA 200009	1.15
GA 98 0 66	1.14
STX 104	1.13
DELTA PEARL	1.13
STX 108	1.11
FM 960	1.11
SYNGENTA N 2429	1.11
PSC 355	1.11
DP 555 R/R	1.11
DP 444 BR	1.10
PD 5582 SEL	1.10
FM 958Bt	1.09
STV 4892 BR	1.09
DPL 458 BG/RR	1.09
LSD	0.06

SYNGENTA N 2429	85.0
FM 800	84.5
TAM 96 WD-18	84.3
AR 9203-17-12	84.2
PSC 355	84.1
STX 108	84.0
ACALA 1517-99	84.0
GA 200009	84.0
GA 98 0 66	83.9
DP 444 BR	83.9
FM 832 LL	83.8
MD 832n	83.8
STV 4892 BR	83.6
STX 104	83.5
FM 960	83.4
DPL 491	83.4
FM 958Bt	83.3
DP 555 R/R	83.1
DELTA PEARL	82.9
DPL 458 BG/RR	82.8
PD 5582 SEL	81.8
LSD	1.5

FM 960	35.6
FM 958Bt	34.8
ACALA 1517-99	34.6
AR 9203-17-12	34.0
STX 104	33.9
GA 98 0 66	33.6
GA 200009	33.3
SYNGENTA N 2429	32.3
FM 800	32.3
MD 832n	31.9
FM 832 LL	31.6
DPL 491	31.5
PD 5582 SEL	31.0
TAM 96 WD-18	30.9
PSC 355	30.6
STV 4892 BR	30.6
DELTA PEARL	30.4
DPL 458 BG/RR	30.4
STX 108	29.1
DP 444 BR	29.0
DP 555 R/R	28.0
LSD	2.4

E	
SYNGENTA N 2429	9.0
PSC 355	8.8
STV 4892 BR	8.6
DPL 458 BG/RR	8.4
TAM 96 WD-18	8.3
GA 98 0 66	8.2
GA 200009	8.1
ACALA 1517-99	8.1
FM 958Bt	8.0
STX 108	8.0
FM 800	7.9
STX 104	7.9

MICRONAIRE (SL-HVI)	
PD 5582 SEL	5.00
STV 4892 BR	4.84
PSC 355	4.83
DPL 458 BG/RR	4.75
STX 104	4.74
SYNGENTA N 2429	4.71
DELTA PEARL	4.65
GA 200009	4.58
STX 108	4.54
DPL 491	4.54
DP 555 R/R	4.50
GA 98 0 66	4.43

COLORIMETER - Rd	
DPL 458 BG/RR	75.0
DELTA PEARL	74.9
PD 5582 SEL	74.0
DP 555 R/R	73.8
FM 800	73.6
FM 960	73.4
FM 832 LL	73.1
STX 108	73.0
DPL 491	73.0
FM 958Bt	72.9
STX 104	72.8
AR 9203-17-12	72.4

DP 444 BR	7.9
FM 960	7.8
AR 9203-17-12	7.8
DPL 491	7.8
MD 832n	7.7
FM 832 LL	7.6
DELTA PEARL	7.6
DP 555 R/R	7.4
PD 5582 SEL	7.2
LSD	0.5

FM 960	4.34
TAM 96 WD-18	4.33
FM 958Bt	4.29
AR 9203-17-12	4.20
FM 832 LL	4.19
MD 832n	4.09
ACALA 1517-99	4.00
FM 800	3.99
DP 444 BR	3.99
LSD	0.41

DP 444 BR	72.3
GA 200009	72.1
STV 4892 BR	71.8
MD 832n	71.6
TAM 96 WD-18	71.4
PSC 355	71.3
ACALA 1517-99	71.1
GA 98 0 66	70.8
SYNGENTA N 2429	69.4
LSD	3.2

COLORIMETER - b	
STV 4892 BR	8.1
DPL 491	8.0
STX 104	7.8
DP 444 BR	7.8
TAM 96 WD-18	7.8
GA 200009	7.8
AR 9203-17-12	7.8
ACALA 1517-99	7.7
PSC 355	7.6
SYNGENTA N 2429	7.5
GA 98 0 66	7.5
STX 108	7.5
DPL 458 BG/RR	7.5
FM 958Bt	7.4
FM 960	7.2
FM 800	7.1
MD 832n	7.1
DP 555 R/R	7.0
DELTA PEARL	6.8
FM 832 LL	6.6
PD 5582 SEL	6.2
LSD	0.9

MICRONAIRE	
PD 5582 SEL	4.90
FM 958Bt	4.78
DELTA PEARL	4.75
STX 108	4.71
TAM 96 WD-18	4.64
FM 800	4.61
DPL 491	4.49
PSC 355	4.47
STV 4892 BR	4.45
FM 960	4.43
AR 9203-17-12	4.38
DPL 458 BG/RR	4.38
DP 555 R/R	4.34
FM 832 LL	4.31
SYNGENTA N 2429	4.31
GA 200009	4.30
ACALA 1517-99	4.29
GA 98 0 66	4.29
DP 444 BR	4.24
MD 832n	4.22
STX 104	4.10
LSD	0.60

STELOMETER - E1	
TAM 96 WD-18	9.3
FM 832 LL	9.0
STX 108	9.0
STX 104	8.6
MD 832n	8.0
FM 800	7.8
DPL 458 BG/RR	7.7
FM 960	7.6
STV 4892 BR	7.6
DPL 491	7.3
DELTA PEARL	7.2
ACALA 1517-99	7.1
GA 98 0 66	7.1
DP 444 BR	7.1
PD 5582 SEL	7.0
GA 200009	6.9
FM 958Bt	6.9
SYNGENTA N 2429	6.8
DP 555 R/R	6.3
PSC 355	6.3
AR 9203-17-12	5.4
LSD	1.8

STELOMETER - T1	
ACALA 1517-99	230
AR 9203-17-12	227
SYNGENTA N 2429	224
GA 200009	218
DP 444 BR	217
DPL 458 BG/RR	216
MD 832n	212
PSC 355	210
GA 98 0 66	209
STX 104	208
STV 4892 BR	208
FM 960	208
FM 800	205
PD 5582 SEL	205
DPL 491	205
FM 958Bt	204
DP 555 R/R	202
STX 108	201
DELTA PEARL	201
FM 832 LL	197
TAM 96 WD-18	188
LSD	31

FIBROGRAPH--50% S.L.	
ACALA 1517-99	23.0
AR 9203-17-12	22.7
SYNGENTA N 2429	22.3
GA 200009	21.8
DP 444 BR	21.6
DPL 458 BG/RR	21.6
MD 832n	21.1
PSC 355	20.9
GA 98 0 66	20.8
STX 104	20.8
STV 4892 BR	20.8
FM 960	20.7
FM 800	20.5
PD 5582 SEL	20.5
DPL 491	20.4
FM 958Bt	20.4
DP 555 R/R	20.1
STX 108	20.0
DELTA PEARL	20.0
FM 832 LL	19.7
TAM 96 WD-18	18.8
LSD	3.10

FIBROGRAPH--2.5% S.L.	
GA 98 0 66	0.57
MD 832n	0.57
STX 104	0.57
DP 444 BR	0.56
SYNGENTA N 2429	0.56
TAM 96 WD-18	0.56
FM 832 LL	0.56
GA 200009	0.56
AR 9203-17-12	0.56
ACALA 1517-99	0.56
STX 108	0.56
FM 958Bt	0.55
FM 960	0.55
DPL 458 BG/RR	0.55
PD 5582 SEL	0.55
DPL 491	0.55
PSC 355	0.55
DP 555 R/R	0.54
DELTA PEARL	0.54
STV 4892 BR	0.54
FM 800	0.53
LSD	0.03

YARN TENACITY	
SYNGENTA N 2429	143
DP 444 BR	142
ACALA 1517-99	141
AR 9203-17-12	141
PSC 355	139
GA 200009	138
GA 98 0 66	134
STX 104	134
DPL 458 BG/RR	134
MD 832n	132
FM 832 LL	130

AREALOMETER - A (mm2/mm3)	
ACALA 1517-99	485
STX 104	470
MD 832n	460
STV 4892 BR	455
DP 444 BR	454
GA 200009	451
DPL 458 BG/RR	451
GA 98 0 66	451
SYNGENTA N 2429	449
FM 832 LL	448
DP 555 R/R	443

AREALOMETER - D (mm2/mm3)	
STX 104	30.0
GA 98 0 66	28.7
FM 832 LL	28.5
MD 832n	27.7
FM 800	26.9
STX 108	26.2
STV 4892 BR	25.9
TAM 96 WD-18	25.3
ACALA 1517-99	24.7
GA 200009	24.4
FM 960	23.4

STV 4892 BR	129
STX 108	128
FM 958Bt	127
DP 555 R/R	126
FM 960	124
DPL 491	124
FM 800	123
PD 5582 SEL	119
TAM 96 WD-18	119
DELTA PEARL	119
LSD	21

FM 960	441
FM 800	433
DPL 491	431
AR 9203-17-12	430
PSC 355	427
STX 108	425
TAM 96 WD-18	423
DELTA PEARL	422
FM 958Bt	406
PD 5582 SEL	393
LSD	61.1

SYNGENTA N 2429	22.8
DP 555 R/R	22.6
DELTA PEARL	22.1
DPL 491	21.9
DP 444 BR	21.3
DPL 458 BG/RR	20.4
FM 958Bt	19.1
AR 9203-17-12	18.0
PD 5582 SEL	18.0
PSC 355	16.2
LSD	11.8

AREALOMETER - I	
STX 104	1.74
FM 832 LL	1.72
GA 98 0 66	1.72
MD 832n	1.71
FM 800	1.69
STX 108	1.68
STV 4892 BR	1.66
TAM 96 WD-18	1.65
ACALA 1517-99	1.65
GA 200009	1.64
FM 960	1.61
SYNGENTA N 2429	1.61
DP 555 R/R	1.60
DPL 491	1.59
DELTA PEARL	1.59
DP 444 BR	1.57
DPL 458 BG/RR	1.55
FM 958Bt	1.53
AR 9203-17-12	1.50
PD 5582 SEL	1.50
PSC 355	1.46
LSD	0.24

AREALOMETER - M (PERCENT)	
PSC 355	95
AR 9203-17-12	93
PD 5582 SEL	93
FM 958Bt	92
DPL 458 BG/RR	91
DP 444 BR	90
DELTA PEARL	90
DPL 491	90
SYNGENTA N 2429	89
DP 555 R/R	89
FM 960	89
GA 200009	88
ACALA 1517-99	88
TAM 96 WD-18	87
STV 4892 BR	87
FM 800	86
STX 108	86
MD 832n	85
FM 832 LL	85
GA 98 0 66	85
STX 104	84
LSD	9

AREALOMETER - p (Microns)	
STX 108	49.75
TAM 96 WD-18	49.10
FM 800	48.78
FM 832 LL	48.29
GA 98 0 66	48.09
PD 5582 SEL	48.08
DELTA PEARL	47.50
FM 958Bt	47.42
MD 832n	46.96
STX 104	46.69
DPL 491	46.27
FM 960	46.01
STV 4892 BR	45.94
GA 200009	45.74
DP 555 R/R	45.55
SYNGENTA N 2429	44.86
AR 9203-17-12	44.00
DP 444 BR	43.66
PSC 355	42.92
DPL 458 BG/RR	42.90
ACALA 1517-99	42.73
LSD	5.62

AREALOMETER - w (MG/INCH)	
PD 5582 SEL	4.73
STX 108	4.57
TAM 96 WD-18	4.56
FM 958Bt	4.54
DELTA PEARL	4.44
FM 800	4.39
FM 832 LL	4.23
GA 98 0 66	4.21
DPL 491	4.18
FM 960	4.13
MD 832n	4.04
DP 555 R/R	4.03
AR 9203-17-12	4.02
STV 4892 BR	3.99
GA 200009	3.97
STX 104	3.93
PSC 355	3.91
SYNGENTA N 2429	3.89
DP 444 BR	3.76
DPL 458 BG/RR	3.72
ACALA 1517-99	3.43
LSD	0.85

AREALOMETER - t (MICRONS)	
PD 5582 SEL	3.2
FM 958Bt	3.1
PSC 355	3.1
DELTA PEARL	3.0
AR 9203-17-12	3.0
TAM 96 WD-18	3.0
DPL 491	2.9
FM 960	2.9
STX 108	2.9
FM 800	2.9
DPL 458 BG/RR	2.9
DP 555 R/R	2.9
STV 4892 BR	2.8
SYNGENTA N 2429	2.8
DP 444 BR	2.8
GA 200009	2.8
GA 98 0 66	2.8
FM 832 LL	2.8
MD 832n	2.7
STX 104	2.7
ACALA 1517-99	2.6
LSD	0.5

SEED YIELD (LB/ACRE)	
PD 5582 SEL	2036
FM 960	1828
PSC 355	1789
STX 108	1771
SYNGENTA N 2429	1754
DPL 458 BG/RR	1744
AR 9203-17-12	1726
DP 444 BR	1723
FM 800	1715
FM 958Bt	1712
STV 4892 BR	1705
DELTA PEARL	1687
FM 832 LL	1677
GA 98 0 66	1637
TAM 96 WD-18	1613
MD 832n	1545
ACALA 1517-99	1514
STX 104	1504
DP 555 R/R	1483
DPL 491	1450
GA 200009	1441
LSD	389

OIL (PERCENT)	
TAM 96 WD-18	20.96
DP 444 BR	20.78
FM 958Bt	20.64
PSC 355	20.25
SYNGENTA N 2429	20.07
FM 800	19.90
STX 104	19.85
FM 960	19.81
FM 832 LL	19.62
ACALA 1517-99	19.62

NITROGEN (PERCENT)	
ACALA 1517-99	3.28
TAM 96 WD-18	3.27
STX 108	3.27
DP 444 BR	3.24
SYNGENTA N 2429	3.24
GA 200009	3.22
AR 9203-17-12	3.19
DP 555 R/R	3.18
DELTA PEARL	3.18
PSC 355	3.14

PLUS GOSSYPOL	
PSC 355	0.97
STV 4892 BR	0.96
SYNGENTA N 2429	0.95
DP 444 BR	0.88
STX 104	0.88
GA 98 0 66	0.88
STX 108	0.88
AR 9203-17-12	0.86
DPL 491	0.82
DPL 458 BG/RR	0.80

AR 9203-17-12	19.59	GA 98 0 66	3.13	TAM 96 WD-18	0.79
STX 108	19.55	FM 800	3.13	GA 200009	0.78
MD 832n	19.26	DPL 458 BG/RR	3.13	ACALA 1517-99	0.74
GA 98 0 66	19.04	PD 5582 SEL	3.10	DELTA PEARL	0.71
STV 4892 BR	18.58	STX 104	3.09	FM 960	0.70
DPL 458 BG/RR	17.96	FM 832 LL	3.09	MD 832n	0.70
DPL 491	17.73	MD 832n	3.06	PD 5582 SEL	0.67
DELTA PEARL	17.62	STV 4892 BR	3.04	DP 555 R/R	0.67
DP 555 R/R	17.59	DPL 491	3.04	FM 958Bt	0.66
GA 200009	17.51	FM 960	3.01	FM 800	0.62
PD 5582 SEL	16.87	FM 958Bt	2.99	FM 832 LL	0.54
LSD	1.60	LSD	0.43	LSD	0.16

MINUS GOSSYPOL		TOTAL GOSSYPOL (PERCENT)	
DPL 491	0.69	STV 4892 BR	1.61
STV 4892 BR	0.65	PSC 355	1.57
GA 98 0 66	0.64	SYNGENTA N 2429	1.53
PSC 355	0.60	GA 98 0 66	1.51
DPL 458 BG/RR	0.59	DPL 491	1.49
SYNGENTA N 2429	0.59	AR 9203-17-12	1.43
AR 9203-17-12	0.57	DP 444 BR	1.42
FM 958Bt	0.55	STX 108	1.42
GA 200009	0.55	DPL 458 BG/RR	1.39
FM 960	0.54	STX 104	1.37
STX 108	0.54	GA 200009	1.32
MD 832n	0.54	TAM 96 WD-18	1.31
DP 444 BR	0.54	ACALA 1517-99	1.26
ACALA 1517-99	0.53	FM 960	1.25
TAM 96 WD-18	0.52	MD 832n	1.24
DELTA PEARL	0.52	DELTA PEARL	1.22
FM 800	0.49	FM 958Bt	1.21
STX 104	0.49	DP 555 R/R	1.15
DP 555 R/R	0.49	PD 5582 SEL	1.15
PD 5582 SEL	0.48	FM 800	1.11
FM 832 LL	0.45	FM 832 LL	0.99
LSD	0.11	LSD	0.26

HIGH QUALITY
LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
STONEVILLE, MS	1370	5.70	40.3	10.1	134	0.56	21.4	214	7.2
COLLEGE STATION, TX	1286	5.12	41.3	9.2	116	0.55	19.7	197	7.3
BOSSIER CITY, LA	1209	5.47	41.3	9.7	120	0.55	20.0	201	7.5
LUBBOCK, TX	1172	5.03	37.8	10.7	.	.	.	.	.
BELLE MINA, AL	949	5.05	39.3	9.8	146	0.55	22.0	221	7.8
KEISER, AR	602	4.50	39.6	10.7	140	0.56	21.4	215	7.5

LOCATION	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
STONEVILLE, MS	4.71	1.14	84.3	33.3	8.5	74.9	8.2	4.77	1957	20.22	3.27
COLLEGE STATION, TX	4.92	1.12	82.6	29.3	7.8	67.7	6.1	4.40	1824	21.13	2.59
BOSSIER CITY, LA	4.74	1.13	83.8	33.8	8.0	71.6	6.8	4.81	1910	18.88	3.17
LUBBOCK, TX	.	.	.	.	.	.	.	.	1868	19.19	3.47
BELLE MINA, AL	4.12	1.16	84.2	31.1	7.9	75.9	8.8	3.73	1446	17.69	3.44
KEISER, AR	3.64	.	.	.	.	.	.	.	908	18.57	2.94

LOCATION	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	AREALOMETER DATA I	AREALOMETER DATA M (%)	AREALOMETER DATA p (microns)	AREALOMETER DATA w (mg/in)	AREALOMETER DATA t (microns)
STONEVILLE, MS	0.82	0.58	1.40	408	19.1	1.53	92	47.06	4.48	3.1
COLLEGE STATION, TX	0.90	0.63	1.53	405	18.1	1.50	93	46.66	4.46	3.2

BOSSIER CITY, LA	0.75	0.52	1.26	407	18.3	1.51	93	46.69	4.46	3.1
LUBBOCK, TX	0.74	0.56	1.29	.	.	.	.	.	.	.
BELLE MINA, AL	0.70	0.45	1.15	463	27.0	1.70	86	46.11	3.87	2.7
KEISER, AR	0.82	0.58	1.40	517	35.2	1.85	80	44.96	3.39	2.3

LUBBOCK, TX
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1196	STV 4892 BR	1377	4.90	40.3	10.6	.	.	.	.	.
1239	FM 958Bt	1338	4.85	38.9	10.8	.	.	.	.	.
1238	FM 960	1313	5.40	37.8	11.3	.	.	.	.	.
1241	DP 444 BR	1288	4.95	39.4	10.8	.	.	.	.	.
1201	DPL 491	1278	5.25	39.3	9.7	.	.	.	.	.
1240	FM 800	1217	5.30	38.5	11.2	.	.	.	.	.
1243	SYNGENTA N 2429	1210	4.80	38.3	11.2	.	.	.	.	.
1248	STX 108	1192	5.20	37.7	11.5	.	.	.	.	.
1158	PSC 355	1169	4.60	37.4	10.7	.	.	.	.	.
1140	DELTA PEARL	1158	4.20	37.7	9.4	.	.	.	.	.
1242	AR 9203-17-12	1150	5.35	37.4	11.5	.	.	.	.	.
1249	FM 832 LL	1131	5.65	37.3	11.2	.	.	.	.	.
1245	GA 98 0 66	1129	5.65	38.3	10.7	.	.	.	.	.
1152	DPL 458 BG/RR	1114	4.65	37.0	9.6	.	.	.	.	.
1244	GA 200009	1112	4.75	36.6	10.8	.	.	.	.	.
1246	MD 832n	1094	5.30	37.9	10.4	.	.	.	.	.
1128	ACALA 1517-99	1086	5.20	35.2	12.6	.	.	.	.	.
1230	TAM 96 WD-18	1083	5.45	34.9	12.6	.	.	.	.	.
1247	STX 104	1024	4.50	36.3	10.3	.	.	.	.	.
1224	DP 555 R/R	980	4.55	40.2	8.2	.	.	.	.	.
.	LSD	149	0.34	2.4	0.9	.	.	.	.	.

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1196	STV 4892 BR	.	.	.	.	.	.	.	.	1990	17.68	3.40
1239	FM 958Bt	.	.	.	.	.	.	.	.	2042	20.70	3.25
1238	FM 960	.	.	.	.	.	.	.	.	2140	19.44	3.25
1241	DP 444 BR	.	.	.	.	.	.	.	.	1908	21.06	3.80
1201	DPL 491	.	.	.	.	.	.	.	.	1783	17.67	3.40
1240	FM 800	.	.	.	.	.	.	.	.	1926	19.02	3.30
1243	SYNGENTA N 2429	.	.	.	.	.	.	.	.	1862	19.34	3.50
1248	STX 108	.	.	.	.	.	.	.	.	2052	19.18	3.65
1158	PSC 355	.	.	.	.	.	.	.	.	1843	19.93	3.15
1140	DELTA PEARL	.	.	.	.	.	.	.	.	1919	16.14	3.25
1242	AR 9203-17-12	.	.	.	.	.	.	.	.	1880	19.53	3.85
1249	FM 832 LL	.	.	.	.	.	.	.	.	1854	19.68	3.50
1245	GA 98 0 66	.	.	.	.	.	.	.	.	1604	19.39	3.40
1152	DPL 458 BG/RR	.	.	.	.	.	.	.	.	1914	18.22	3.35
1244	GA 200009	.	.	.	.	.	.	.	.	2013	18.01	3.40
1246	MD 832n	.	.	.	.	.	.	.	.	1778	19.53	3.30
1128	ACALA 1517-99	.	.	.	.	.	.	.	.	1847	20.10	3.55
1230	TAM 96 WD-18	.	.	.	.	.	.	.	.	1920	21.70	3.80
1247	STX 104	.	.	.	.	.	.	.	.	1647	19.67	3.60
1224	DP 555 R/R	.	.	.	.	.	.	.	.	1437	17.92	3.60
.	LSD	.	.	.	.	.	.	.	.	280	1.35	0.35

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1196	STV 4892 BR	0.96	0.72	1.68	.	.	.	.	.	.	.
1239	FM 958Bt	0.73	0.65	1.38	.	.	.	.	.	.	.
1238	FM 960	0.68	0.57	1.25	.	.	.	.	.	.	.
1241	DP 444 BR	0.82	0.55	1.37	.	.	.	.	.	.	.
1201	DPL 491	0.77	0.75	1.42	.	.	.	.	.	.	.
1240	FM 800	0.57	0.47	1.03	.	.	.	.	.	.	.
1243	SYNGENTA N 2429	0.91	0.62	1.53	.	.	.	.	.	.	.

1248	STX 108	0.76	0.53	1.29	.	.	.	.	.	.	.
1158	PSC 355	0.82	0.56	1.38	.	.	.	.	.	.	.
1140	DELTA PEARL	0.68	0.49	1.17	.	.	.	.	.	.	.
1242	AR 9203-17-12	0.81	0.56	1.37	.	.	.	.	.	.	.
1249	FM 832 LL	0.47	0.41	0.88	.	.	.	.	.	.	.
1245	GA 98 0 66	0.85	0.62	1.47	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	0.84	0.64	1.48	.	.	.	.	.	.	.
1244	GA 200009	0.80	0.61	1.40	.	.	.	.	.	.	.
1246	MD 832n	0.69	0.56	1.25	.	.	.	.	.	.	.
1128	ACALA 1517-99	0.65	0.50	1.15	.	.	.	.	.	.	.
1230	TAM 96 WD-18	0.67	0.50	1.16	.	.	.	.	.	.	.
1247	STX 104	0.77	0.47	1.23	.	.	.	.	.	.	.
1224	DP 555 R/R	0.61	0.44	1.05	.	.	.	.	.	.	.
.	LSD	0.10	0.10	0.18	.	.	.	.	.	.	.

COLLEGE STATION, TX
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1240	FM 800	1489	5.35	41.6	10.3	101	0.52	18.9	190	7.8
1249	FM 832 LL	1477	5.35	41.4	10.6	115	0.56	18.9	189	8.7
1140	DELTA PEARL	1462	4.95	44.2	7.6	100	0.54	17.8	179	7.6
1238	FM 960	1432	5.55	41.2	9.9	123	0.56	22.1	222	6.7
1239	FM 958Bt	1417	4.55	41.8	9.6	123	0.56	19.9	199	7.8
1224	DP 555 R/R	1415	4.75	47.3	7.2	115	0.54	19.6	196	6.3
1158	PSC 355	1393	6.10	41.2	9.5	104	0.54	17.1	172	6.7
1241	DP 444 BR	1338	5.40	42.0	8.9	110	0.55	17.9	180	7.5
1196	STV 4892 BR	1332	5.10	42.0	9.4	114	0.54	20.5	205	6.5
1243	SYNGENTA N 2429	1296	5.15	40.9	9.8	139	0.56	23.1	232	6.6
1201	DPL 491	1281	4.55	45.2	8.1	104	0.55	18.1	182	9.2
1246	MD 832n	1269	4.65	39.3	9.6	124	0.56	20.0	200	6.8
1152	DPL 458 BG/RR	1263	5.10	40.6	7.6	103	0.54	17.2	173	9.6
1245	GA 98 0 66	1259	5.25	39.1	9.3	142	0.58	22.4	224	5.5

1248	STX 108	1227	5.25	41.5	10.1	116	0.56	18.8	188	7.6
1242	AR 9203-17-12	1162	4.80	39.4	9.5	111	0.56	20.1	201	6.1
1247	STX 104	1087	5.05	39.3	7.9	118	0.56	20.0	201	7.4
1128	ACALA 1517-99	1078	5.10	41.1	9.8	119	0.55	20.7	208	7.2
1230	TAM 96 WD-18	1032	5.30	38.0	11.3	117	0.57	18.7	187	8.3
1244	GA 200009	1013	5.10	40.0	9.2	126	0.55	21.6	217	6.0
.	LSD	295	0.80	1.6	0.8	10	0.02	1.82	18	0.9

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
		MICRO-	2.5%	UNIFO-	STRE-		COLORIMETER		MICRO-	SEED		NITR
							HUNTER'S					
VARIETY CODE	VARIETY NAME	NAIRE (reading)	S.L. (in.)	MITY (%)	NGTH (g/tex)	E	Rd	b	NAIRE (Reading)	YIELD (lb/ac)	OIL (%)	OGEN (%)
1240	FM 800	5.05	1.20	83.9	29.5	7.6	70.0	6.0	4.10	2095	22.61	2.50
1249	FM 832 LL	5.00	1.20	83.5	29.5	7.5	65.5	3.5	4.15	2093	22.17	2.40
1140	DELTA PEARL	5.15	1.10	81.8	27.0	7.3	71.0	5.3	4.50	1857	20.22	2.40
1238	FM 960	4.45	1.10	83.2	34.0	7.7	68.0	5.8	4.20	2045	21.38	2.60
1239	FM 958Bt	5.00	1.05	81.6	32.5	7.8	68.5	6.4	4.45	1976	21.97	2.45
1224	DP 555 R/R	4.85	1.10	81.4	25.0	7.2	69.5	5.8	4.55	1574	18.53	2.55
1158	PSC 355	4.90	1.10	83.5	27.5	8.8	65.5	6.6	4.90	1992	21.80	2.85
1241	DP 444 BR	4.75	1.10	83.0	26.0	7.5	69.0	6.5	3.70	1850	22.49	2.75
1196	STV 4892 BR	5.30	1.05	82.5	28.5	8.7	67.0	6.4	4.80	1843	21.05	2.40
1243	SYNGENTA N 2429	4.45	1.10	84.4	30.0	8.8	63.5	5.9	4.55	1874	22.79	2.80
1201	DPL 491	5.05	1.20	82.0	30.0	7.5	68.5	6.8	4.65	1566	18.57	2.50
1246	MD 832n	4.75	1.15	82.5	29.0	7.5	68.0	6.2	4.20	1958	22.27	2.45
1152	DPL 458 BG/RR	5.25	1.05	81.4	27.5	8.2	71.0	6.2	4.65	1847	18.40	3.35
1245	GA 98 0 66	4.55	1.10	82.9	30.5	7.9	65.5	6.4	4.25	1973	20.87	2.40
1248	STX 108	5.05	1.10	83.2	27.0	7.5	69.0	5.8	4.40	1733	21.74	2.55
1242	AR 9203-17-12	4.90	1.10	83.2	32.5	7.7	66.5	6.3	4.15	1787	20.75	2.55
1247	STX 104	4.80	1.05	82.0	31.0	7.7	68.5	6.6	4.95	1672	22.21	2.35
1128	ACALA 1517-99	5.20	1.20	83.1	32.0	7.9	65.0	6.4	3.85	1548	21.02	2.85
1230	TAM 96 WD-18	5.05	1.20	82.1	26.5	7.8	66.0	6.2	4.20	1685	23.29	2.35
1244	GA 200009	4.85	1.10	82.3	30.5	7.7	67.5	6.6	4.70	1517	18.46	2.75
.	LSD	0.24	0.07	1.1	2.3	0.3	4.0	1.6	0.36	405	1.33	0.38

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------					
VARIETY	VARIETY	PLUS	MINUS	TOTAL	A	D	M	p	w	t

CODE	NAME	(+)	(-)	(%)	---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
1240	FM 800	0.64	0.54	1.18	390	17.8	1.50	94	48.15	4.78	3.3
1249	FM 832 LL	0.59	0.52	1.11	397	17.0	1.48	94	46.98	4.59	3.2
1140	DELTA PEARL	0.83	0.63	1.46	436	16.0	1.46	95	42.35	3.82	3.0
1238	FM 960	0.73	0.59	1.32	434	19.5	1.54	92	44.59	3.98	2.9
1239	FM 958Bt	0.70	0.60	1.30	395	18.0	1.51	93	47.77	4.67	3.2
1224	DP 555 R/R	0.70	0.53	1.23	405	19.8	1.55	92	47.96	4.58	3.1
1158	PSC 355	1.13	0.66	1.79	401	17.0	1.48	94	46.30	4.47	3.2
1241	DP 444 BR	1.02	0.59	1.61	415	23.3	1.62	89	49.05	4.57	3.0
1196	STV 4892 BR	1.05	0.69	1.73	.	.	.	.	.	.	.
1243	SYNGENTA N 2429	1.15	0.69	1.84	426	12.5	1.38	98	40.45	3.68	3.1
1201	DPL 491	0.89	0.75	1.64	384	18.0	1.51	93	49.23	4.96	3.4
1246	MD 832n	0.74	0.59	1.33	422	23.3	1.62	89	48.33	4.44	3.0
1152	DPL 458 BG/RR	0.99	0.77	1.75	.	.	.	.	.	.	.
1245	GA 98 0 66	0.96	0.69	1.65	417	17.3	1.49	94	44.81	4.16	3.1
1248	STX 108	1.08	0.64	1.72	395	22.0	1.60	90	50.70	4.97	3.2
1242	AR 9203-17-12	1.01	0.63	1.64	396	15.5	1.45	96	45.88	4.48	3.3
1247	STX 104	0.99	0.51	1.49	407	24.0	1.64	88	50.47	4.80	3.1
1128	ACALA 1517-99	0.98	0.71	1.69	.	.	.	.	.	.	.
1230	TAM 96 WD-18	0.96	0.61	1.57	390	13.0	1.38	98	44.56	4.42	3.4
1244	GA 200009	0.95	0.66	1.61	387	14.0	1.41	97	45.61	4.56	3.4
.	LSD	0.13	0.13	0.20	33.2	8.1	0.19	7	5.87	0.71	0.3

BOSSIER CITY, LA
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
1224	DP 555 R/R	1809	5.10	45.2	8.0	129	0.56	21.5	215	6.5
1243	SYNGENTA N 2429	1451	4.95	41.4	10.1	138	0.55	23.3	233	6.3
1124	PD 5582 SEL	1409	5.00	44.9	8.0	119	0.55	20.5	205	7.0
1201	DPL 491	1369	5.80	44.5	9.7	101	0.55	18.3	184	6.6
1140	DELTA PEARL	1300	4.95	42.2	8.6	108	0.55	20.3	203	8.4

1152	DPL 458 BG/RR	1262	5.10	40.2	8.7	139	0.58	22.7	228	7.0
1238	FM 960	1246	5.80	41.8	9.9	112	0.56	18.7	187	7.9
1158	PSC 355	1244	4.80	41.1	9.4	142	0.56	21.2	212	7.0
1240	FM 800	1205	6.00	40.8	10.7	118	0.56	20.4	205	7.5
1248	STX 108	1195	6.00	41.3	10.7	120	0.55	19.6	196	9.5
1249	FM 832 LL	1193	6.10	39.5	9.3	105	0.55	17.2	173	9.3
1241	DP 444 BR	1175	5.35	42.6	9.1	116	0.56	19.9	200	6.7
1239	FM 958Bt	1165	5.65	41.9	9.8	109	0.56	19.1	191	7.9
1196	STV 4892 BR	1141	5.20	43.1	9.9	121	0.55	20.2	202	7.9
1245	GA 98 0 66	1113	5.65	39.3	10.4	120	0.57	19.2	192	6.8
1247	STX 104	1071	5.25	39.2	9.4	119	0.56	20.7	207	7.5
1230	TAM 96 WD-18	1042	5.95	39.2	11.6	118	0.55	19.7	197	9.5
1246	MD 832n	1024	5.55	40.4	10.1	118	0.56	19.4	195	7.4
1242	AR 9203-17-12	1023	5.60	39.7	9.9	122	0.55	19.1	192	6.3
1128	ACALA 1517-99	1002	5.30	39.3	11.0	121	0.54	19.5	195	7.0
1244	GA 200009	949	5.75	39.6	10.2	125	0.57	20.4	204	7.1
.	LSD	237	0.56	2.2	0.7	12	0.02	2.44	24	1.1

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)									
							COLORIMETER					
VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	Rd	HUNTER'S b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1224	DP 555 R/R	4.30	1.10	84.2	28.0	7.2	72.0	5.9	4.90	2193	16.83	3.00
1243	SYNGENTA N 2429	4.90	1.10	85.0	34.0	9.0	67.0	7.1	5.10	2051	19.64	3.45
1124	PD 5582 SEL	4.90	1.10	81.8	31.0	7.2	74.0	6.2	5.00	2036	16.87	3.10
1201	DPL 491	4.60	1.15	82.5	32.0	7.6	71.0	7.4	4.90	1846	18.09	3.20
1140	DELTA PEARL	5.05	1.10	82.6	32.5	7.5	73.5	6.1	5.20	1877	16.59	3.30
1152	DPL 458 BG/RR	4.30	1.10	83.2	31.5	8.2	75.5	6.7	5.30	2144	17.96	2.90
1238	FM 960	4.95	1.10	83.2	37.0	7.7	73.5	6.3	4.65	2047	18.68	2.95
1158	PSC 355	4.50	1.10	84.7	33.5	9.0	68.5	6.4	5.10	1964	20.34	3.20
1240	FM 800	4.80	1.20	84.3	35.5	8.0	70.0	6.5	4.30	2145	20.69	3.05
1248	STX 108	4.80	1.10	83.9	31.0	7.9	71.5	7.0	4.75	1940	19.03	3.40
1249	FM 832 LL	4.95	1.20	83.0	34.0	7.6	74.5	7.3	4.80	2219	18.08	3.05
1241	DP 444 BR	4.45	1.10	83.6	31.0	7.8	69.5	7.5	4.25	1789	20.58	3.40
1239	FM 958Bt	4.95	1.10	83.5	38.5	8.2	72.5	6.6	4.75	1786	19.73	3.15
1196	STV 4892 BR	4.85	1.10	84.3	31.5	8.6	71.5	7.9	5.00	1879	18.41	2.90
1245	GA 98 0 66	4.60	1.10	83.7	37.5	8.4	71.0	6.9	4.75	1893	18.82	3.30
1247	STX 104	4.35	1.10	83.4	36.0	7.8	73.5	7.1	5.25	1642	20.78	3.10

1230	TAM 96 WD-18	5.05	1.20	85.1	32.5	8.3	70.5	7.4	4.50	1899	20.50	3.25
1246	MD 832n	4.80	1.20	84.2	34.5	7.9	71.5	6.6	4.45	1766	18.59	3.25
1242	AR 9203-17-12	4.80	1.10	84.6	35.0	8.0	71.0	7.1	4.70	1707	19.24	3.15
1128	ACALA 1517-99	5.00	1.20	84.2	37.5	8.1	69.5	6.8	4.35	1719	19.47	3.35
1244	GA 200009	4.70	1.15	85.1	36.5	8.3	71.5	6.8	5.00	1561	17.63	3.15
.	LSD	0.37	0.06	2.0	3.4	0.6	5.8	1.1	0.32	573	1.57	0.47

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1224	DP 555 R/R	0.62	0.44	1.06	420	14.0	1.41	96	42.15	3.88	3.1
1243	SYNGENTA N 2429	0.84	0.49	1.33	405	18.0	1.51	93	46.73	4.47	3.2
1124	PD 5582 SEL	0.67	0.48	1.15	393	18.0	1.50	93	48.08	4.73	3.2
1201	DPL 491	0.78	0.68	1.45	407	17.0	1.48	94	45.62	4.34	3.2
1140	DELTA PEARL	0.69	0.51	1.20	380	18.8	1.52	93	50.34	5.13	3.4
1152	DPL 458 BG/RR	0.76	0.53	1.29	447	14.3	1.42	97	39.73	3.44	3.0
1238	FM 960	0.58	0.47	1.05	384	13.0	1.39	98	45.29	4.56	3.5
1158	PSC 355	0.84	0.51	1.35	432	14.0	1.41	97	40.95	3.67	3.1
1240	FM 800	0.60	0.50	1.10	408	17.3	1.49	94	45.66	4.33	3.2
1248	STX 108	0.91	0.53	1.43	407	24.3	1.65	88	50.70	4.82	3.0
1249	FM 832 LL	0.53	0.45	0.97	390	20.5	1.56	91	50.33	4.99	3.2
1241	DP 444 BR	0.88	0.52	1.39	433	19.5	1.54	92	44.75	4.01	2.9
1239	FM 958Bt	0.60	0.48	1.08	375	18.5	1.52	93	50.72	5.23	3.4
1196	STV 4892 BR	0.90	0.58	1.47	389	12.0	1.36	99	43.83	4.36	3.5
1245	GA 98 0 66	0.82	0.61	1.43	409	23.0	1.62	89	49.66	4.70	3.1
1247	STX 104	0.96	0.50	1.46	441	19.8	1.55	92	43.99	3.86	2.9
1230	TAM 96 WD-18	0.82	0.54	1.36	397	24.8	1.65	88	52.28	5.10	3.1
1246	MD 832n	0.60	0.46	1.06	403	20.5	1.57	91	48.71	4.68	3.1
1242	AR 9203-17-12	0.81	0.55	1.36	388	16.3	1.46	95	47.23	4.71	3.4
1128	ACALA 1517-99	0.69	0.48	1.17	.	.	.	.	.	.	.
1244	GA 200009	0.83	0.59	1.42	432	23.0	1.62	89	47.06	4.21	2.9
.	LSD	0.12	0.12	0.20	31.0	9.9	0.24	9	6.20	0.66	0.4

STONEVILLE, MS
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1224	DP 555 R/R	1671	5.24	43.3	7.9	130	0.54	20.6	207	5.7
1140	DELTA PEARL	1580	5.18	41.2	8.9	124	0.54	22.0	221	6.6
1238	FM 960	1498	6.21	40.6	10.5	121	0.55	19.9	200	6.8
1196	STV 4892 BR	1493	5.88	42.2	10.5	127	0.53	20.4	204	7.1
1248	STX 108	1478	6.08	40.5	11.2	124	0.56	20.2	203	9.2
1240	FM 800	1446	6.22	41.2	10.7	126	0.52	20.7	208	7.4
1242	AR 9203-17-12	1439	6.06	39.4	10.6	140	0.56	23.8	238	4.7
1152	DPL 458 BG/RR	1430	5.12	39.2	8.9	135	0.55	22.5	226	6.8
1241	DP 444 BR	1402	5.45	41.8	9.7	162	0.58	23.9	240	6.0
1201	DPL 491	1393	5.61	42.2	9.6	131	0.56	21.2	212	6.0
1158	PSC 355	1369	5.23	41.3	9.9	142	0.52	22.0	221	5.2
1243	SYNGENTA N 2429	1365	5.22	40.5	10.2	142	0.59	21.4	215	7.4
1239	FM 958Bt	1365	5.87	40.5	10.3	139	0.55	21.0	211	6.2
1245	GA 98 0 66	1360	5.73	38.6	10.3	130	0.57	20.4	204	7.8
1247	STX 104	1312	5.35	37.9	9.5	137	0.60	20.2	202	8.7
1230	TAM 96 WD-18	1220	6.19	38.6	12.0	107	0.58	18.3	183	9.0
1244	GA 200009	1218	5.72	39.8	10.3	134	0.58	21.8	219	7.7
1246	MD 832n	1158	5.95	40.0	10.2	134	0.60	21.7	217	8.4
1249	FM 832 LL	1119	6.29	39.3	10.9	142	0.60	20.5	205	9.9
1128	ACALA 1517-99	1092	5.42	38.5	10.6	162	0.58	25.7	257	7.2
.	LSD	126	0.38	0.8	0.4	8	0.04	1.55	16	0.8

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1224	DP 555 R/R	4.70	1.10	83.7	29.5	8.1	76.0	7.7	4.40	2026	17.91	3.50
1140	DELTA PEARL	5.00	1.20	84.2	32.5	8.0	78.0	7.4	4.75	2236	18.72	3.25
1238	FM 960	5.00	1.10	83.7	36.5	8.2	75.5	8.0	4.90	2160	21.54	2.95
1196	STV 4892 BR	4.70	1.10	83.9	30.5	8.6	73.5	8.8	5.40	2056	19.67	3.40
1248	STX 108	5.00	1.10	84.5	30.5	8.9	75.0	8.2	5.00	2009	20.00	3.65
1240	FM 800	4.95	1.20	85.2	33.5	8.4	76.0	7.9	4.45	2075	21.68	3.25

1242	AR 9203-17-12	4.80	1.20	84.4	36.0	8.2	75.0	8.5	4.60	2105	21.27	3.30
1152	DPL 458 BG/RR	4.95	1.10	83.6	32.0	8.7	77.0	8.2	4.90	2080	19.01	2.85
1241	DP 444 BR	4.35	1.10	84.9	32.0	8.8	74.0	8.3	4.70	1838	21.53	3.45
1201	DPL 491	4.35	1.20	85.1	32.5	8.1	77.0	8.6	4.70	1858	17.63	2.90
1158	PSC 355	5.05	1.10	83.4	32.0	8.5	76.5	8.3	5.10	1883	20.18	3.30
1243	SYNGENTA N 2429	4.45	1.10	85.2	33.5	9.6	73.0	8.3	5.15	1909	21.59	3.50
1239	FM 958Bt	4.75	1.10	84.3	35.0	8.2	77.0	8.0	4.50	2052	21.80	3.00
1245	GA 98 0 66	4.60	1.15	84.1	34.5	8.7	70.5	8.2	4.85	2066	19.74	3.35
1247	STX 104	4.55	1.15	84.0	35.5	8.4	73.5	8.9	5.05	2032	21.24	3.05
1230	TAM 96 WD-18	5.25	1.15	83.8	33.5	8.7	74.0	8.8	4.85	1924	20.80	3.65
1244	GA 200009	4.60	1.15	84.7	35.0	8.7	75.0	8.7	4.80	1757	18.50	3.30
1246	MD 832n	4.35	1.15	83.7	32.5	8.1	71.5	7.5	4.45	1663	19.74	3.05
1249	FM 832 LL	4.50	1.20	85.0	34.0	8.0	75.5	7.5	4.50	1632	20.92	3.25
1128	ACALA 1517-99	4.35	1.20	85.4	35.0	8.7	74.5	8.4	4.35	1770	21.04	3.50
.	LSD	0.43	0.07	2.1	2.7	0.7	4.5	0.9	0.55	306	1.99	0.31

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1224	DP 555 R/R	0.71	0.53	1.24	416	23.3	1.62	89	48.92	4.54	3.0
1140	DELTA PEARL	0.69	0.53	1.22	359	15.0	1.43	96	50.13	5.40	3.7
1238	FM 960	0.74	0.60	1.33	389	18.8	1.53	93	49.09	4.88	3.3
1196	STV 4892 BR	1.05	0.70	1.74	413	22.0	1.60	90	48.52	4.56	3.1
1248	STX 108	0.95	0.55	1.50	399	21.0	1.58	90	49.59	4.82	3.2
1240	FM 800	0.66	0.54	1.20	407	23.8	1.63	88	50.33	4.78	3.0
1242	AR 9203-17-12	0.95	0.63	1.58	389	11.5	1.35	99	43.43	4.32	3.5
1152	DPL 458 BG/RR	0.86	0.65	1.50	374	9.0	1.28	101	42.92	4.44	3.7
1241	DP 444 BR	0.94	0.58	1.52	436	17.0	1.48	94	42.69	3.80	3.0
1201	DPL 491	0.81	0.71	1.52	435	17.8	1.50	93	43.32	3.86	2.9
1158	PSC 355	0.96	0.59	1.54	384	12.0	1.36	99	44.27	4.46	3.5
1243	SYNGENTA N 2429	0.93	0.56	1.49	431	21.8	1.59	90	46.41	4.17	2.9
1239	FM 958Bt	0.71	0.60	1.30	408	18.8	1.53	93	46.85	4.45	3.1
1245	GA 98 0 66	0.92	0.69	1.61	407	23.0	1.62	89	49.91	4.75	3.1
1247	STX 104	0.99	0.53	1.52	414	20.0	1.55	91	47.14	4.41	3.1
1230	TAM 96 WD-18	0.81	0.50	1.30	370	19.0	1.53	93	51.94	5.44	3.5
1244	GA 200009	0.79	0.57	1.36	421	21.5	1.59	90	47.20	4.33	3.0
1246	MD 832n	0.61	0.49	1.09	439	23.8	1.64	88	46.84	4.14	2.9
1249	FM 832 LL	0.57	0.50	1.07	434	26.5	1.69	86	48.91	4.35	2.8

1128	ACALA 1517-99	0.81	0.58	1.38	436	17.0	1.49	94	42.78	3.81	3.0
.	LSD	0.08	0.08	0.13	24.7	6.3	0.14	6	5.14	0.68	0.2

KEISER, AR
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1241	DP 444 BR	909	4.55	41.8	10.7	156	0.59	23.7	237	7.7
1242	AR 9203-17-12	849	4.94	39.8	10.6	168	0.57	25.5	255	5.2
1158	PSC 355	843	4.10	40.0	10.4	150	0.56	22.5	225	6.1
1243	SYNGENTA N 2429	826	4.49	40.0	10.9	147	0.58	22.7	228	7.5
1239	FM 958Bt	793	4.66	41.4	11.0	134	0.57	20.1	201	5.9
1238	FM 960	731	4.98	38.9	11.3	134	0.55	21.8	219	8.3
1248	STX 108	709	4.53	40.5	11.6	134	0.55	19.4	194	8.6
1196	STV 4892 BR	675	5.26	41.4	11.1	140	0.55	20.8	209	8.3
1152	DPL 458 BG/RR	592	3.64	37.9	9.0	139	0.56	21.6	217	7.8
1245	GA 98 0 66	575	4.50	38.7	10.9	139	0.57	20.9	210	8.3
1128	ACALA 1517-99	566	4.22	38.3	11.3	148	0.57	24.7	248	6.8
1240	FM 800	560	5.06	39.1	10.7	130	0.51	20.2	202	7.7
1140	DELTA PEARL	534	4.08	40.8	9.1	129	0.54	19.4	195	6.4
1230	TAM 96 WD-18	529	4.95	37.4	12.7	123	0.55	18.1	181	9.2
1249	FM 832 LL	525	5.16	39.5	11.8	143	0.56	20.6	207	8.2
1244	GA 200009	470	4.91	38.5	11.4	150	0.54	22.7	228	7.5
1246	MD 832n	444	3.95	38.9	10.5	140	0.56	22.4	225	8.4
1224	DP 555 R/R	348	3.81	42.7	7.8	130	0.54	19.6	197	6.2
1201	DPL 491	339	4.80	39.8	10.4	138	0.57	21.4	214	6.9
1247	STX 104	232	3.52	37.1	11.3	143	0.55	20.6	207	9.3
.	LSD	187	0.97	2.2	1.1	10	0.03	1.56	16	1.2

	MICRO-	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5%	UNIFO-	STRE-	COLORIMETER	MICRO-	SEED	NITR

VARIETY CODE	VARIETY NAME	NAIRE (reading)	S.L. (in.)	MITY (%)	NGTH (g/tex)	HUNTER'S E	Rd	b	NAIRE (Reading)	YIELD (lb/ac)	OIL (%)	OGEN (%)
1241	DP 444 BR	3.50	.	.	.	.	.	.	.	1341	20.12	2.45
1242	AR 9203-17-12	3.60	.	.	.	.	.	.	.	1334	19.18	2.90
1158	PSC 355	4.00	.	.	.	.	.	.	.	1309	19.91	2.85
1243	SYNGENTA N 2429	3.65	.	.	.	.	.	.	.	1260	18.67	2.90
1239	FM 958Bt	4.30	.	.	.	.	.	.	.	893	21.10	2.75
1238	FM 960	3.35	.	.	.	.	.	.	.	1061	18.39	2.80
1248	STX 108	4.35	.	.	.	.	.	.	.	929	19.55	2.80
1196	STV 4892 BR	3.40	.	.	.	.	.	.	.	978	18.48	2.95
1152	DPL 458 BG/RR	3.55	.	.	.	.	.	.	.	1029	17.24	3.05
1245	GA 98 0 66	3.20	.	.	.	.	.	.	.	916	18.50	3.00
1128	ACALA 1517-99	3.50	.	.	.	.	.	.	.	908	17.65	3.00
1240	FM 800	3.85	.	.	.	.	.	.	.	827	17.84	3.10
1140	DELTA PEARL	4.10	.	.	.	.	.	.	.	974	17.11	3.20
1230	TAM 96 WD-18	3.55	.	.	.	.	.	.	.	842	19.58	3.10
1249	FM 832 LL	3.45	.	.	.	.	.	.	.	788	19.42	3.00
1244	GA 200009	3.50	.	.	.	.	.	.	.	751	16.71	3.40
1246	MD 832n	2.95	.	.	.	.	.	.	.	756	17.51	3.00
1224	DP 555 R/R	3.70	.	.	.	.	.	.	.	331	18.28	3.05
1201	DPL 491	4.15	.	.	.	.	.	.	.	509	17.98	2.75
1247	STX 104	3.10	.	.	.	.	.	.	.	424	18.20	2.80
.	LSD	0.70	.	.	.	.	.	.	.	383	3.10	0.38

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1241	DP 444 BR	0.87	0.55	1.42	522	32.3	1.81	82	43.51	3.23	2.3
1242	AR 9203-17-12	0.79	0.55	1.33	487	25.0	1.66	87	42.82	3.40	2.6
1158	PSC 355	1.18	0.76	1.94	454	16.5	1.47	95	40.53	3.46	2.9
1243	SYNGENTA N 2429	0.97	0.67	1.64	508	31.5	1.79	82	44.37	3.38	2.4
1239	FM 958Bt	0.65	0.54	1.18	448	22.0	1.60	90	44.76	3.87	2.8
1238	FM 960	0.79	0.57	1.35	560	41.8	1.97	75	44.15	3.07	2.2
1248	STX 108	0.77	0.55	1.32	479	34.5	1.85	80	48.58	3.96	2.5
1196	STV 4892 BR	1.01	0.69	1.70	558	41.0	1.96	76	43.88	3.05	2.1
1152	DPL 458 BG/RR	0.63	0.49	1.12	509	30.0	1.76	83	43.48	3.31	2.4
1245	GA 98 0 66	0.96	0.68	1.63	584	51.0	2.14	69	46.04	3.05	2.0

1128	ACALA 1517-99	0.68	0.51	1.19	495	25.3	1.67	87	42.26	3.30	2.5
1240	FM 800	0.71	0.52	1.23	514	47.0	2.08	72	50.63	3.81	2.3
1140	DELTA PEARL	0.76	0.57	1.33	497	36.3	1.88	79	47.56	3.70	2.4
1230	TAM 96 WD-18	0.74	0.53	1.27	510	39.8	1.95	76	47.99	3.64	2.4
1249	FM 832 LL	0.63	0.50	1.13	510	41.8	1.98	75	48.80	3.71	2.4
1244	GA 200009	0.61	0.40	1.01	536	33.5	1.83	81	42.88	3.09	2.2
1246	MD 832n	0.96	0.72	1.68	585	41.8	1.98	75	42.56	2.81	2.0
1224	DP 555 R/R	0.75	0.58	1.33	521	31.0	1.77	83	42.68	3.20	2.4
1201	DPL 491	1.00	0.74	1.74	478	28.0	1.72	85	45.13	3.65	2.6
1247	STX 104	0.90	0.62	1.51	590	54.3	2.19	67	46.53	3.09	2.0
.	LSD	0.37	0.37	0.55	79.8	18.3	0.33	13	3.74	0.56	0.4

BELLE MINA, AL
VARIETIES BY LOCATIONS

ARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1241	DP 444 BR	1239	4.62	42.0	9.1	165	0.56	22.7	228	7.5
1248	STX 108	1167	6.04	39.0	10.5	145	0.56	22.2	223	10.0
1158	PSC 355	1129	4.96	39.0	10.0	156	0.55	21.8	219	6.7
1196	STV 4892 BR	1107	5.11	41.3	9.8	142	0.55	22.0	220	8.0
1243	SYNGENTA N 2429	1045	4.69	39.7	10.1	151	0.55	21.3	213	6.4
1239	FM 958Bt	1039	5.07	41.0	10.2	131	0.55	22.0	220	6.8
1238	FM 960	1020	4.91	38.3	10.4	132	0.55	21.2	212	8.3
1242	AR 9203-17-12	1006	5.10	38.6	10.2	167	0.56	25.0	250	5.1
1224	DP 555 R/R	959	5.26	42.7	8.1	128	0.54	19.4	195	7.1
1247	STX 104	919	5.16	37.7	9.3	156	0.57	22.4	226	10.0
1152	DPL 458 BG/RR	917	5.01	40.0	8.6	154	0.54	23.9	240	7.4
1230	TAM 96 WD-18	903	5.18	37.2	10.9	130	0.57	19.1	191	10.5
1245	GA 98 0 66	871	5.54	38.5	10.5	142	0.55	21.4	215	7.0
1246	MD 832n	868	4.53	38.4	9.4	147	0.55	22.3	224	8.8
1249	FM 832 LL	862	5.35	36.6	10.5	146	0.56	21.3	214	9.2
1240	FM 800	845	5.18	39.5	9.9	139	0.55	22.3	224	8.8
1140	DELTA PEARL	839	4.68	40.3	9.0	133	0.54	20.5	206	7.3

1201	DPL 491	819	4.61	41.3	9.7	144	0.54	23.1	232	7.7
1128	ACALA 1517-99	733	4.23	37.3	10.5	157	0.56	24.3	244	7.4
1244	GA 200009	704	5.86	38.7	9.9	158	0.56	22.4	225	6.4
.	LSD	135	0.59	2.3	1.0	10	0.03	2.36	24	1.1

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

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1241	DP 444 BR	4.15	1.10	84.3	27.0	7.5	76.5	9.1	3.30	1614	18.93	3.60
1248	STX 108	4.35	1.15	84.5	28.0	7.7	76.5	9.0	4.00	1963	17.78	3.55
1158	PSC 355	3.90	1.15	84.9	29.5	8.9	74.5	9.2	4.20	1744	19.35	3.50
1196	STV 4892 BR	4.00	1.10	83.8	32.0	8.6	75.0	9.5	4.15	1483	16.22	3.20
1243	SYNGENTA N 2429	4.10	1.15	85.5	31.5	8.7	74.0	8.9	4.05	1571	18.40	3.30
1239	FM 958Bt	4.90	1.10	83.8	33.0	7.9	73.5	8.7	3.45	1521	18.57	3.35
1238	FM 960	4.40	1.15	83.7	35.0	7.7	76.5	8.7	3.60	1517	19.45	3.50
1242	AR 9203-17-12	3.80	1.20	84.7	32.5	7.5	77.0	9.3	3.35	1542	17.60	3.40
1224	DP 555 R/R	4.15	1.15	83.2	29.5	7.3	77.5	8.5	4.15	1338	16.06	3.40
1247	STX 104	3.70	1.20	84.5	33.0	7.7	75.5	8.9	3.70	1607	17.02	3.65
1152	DPL 458 BG/RR	3.85	1.10	83.3	30.5	8.4	76.5	8.8	4.15	1448	16.94	3.25
1230	TAM 96 WD-18	4.30	1.20	86.2	31.0	8.3	75.0	9.1	3.75	1406	19.91	3.45
1245	GA 98 0 66	4.50	1.20	85.1	32.0	7.8	76.0	8.7	3.85	1371	16.91	3.35
1246	MD 832n	4.25	1.20	84.8	31.5	7.5	75.5	8.2	3.25	1351	17.91	3.30
1249	FM 832 LL	3.65	1.20	83.9	29.0	7.4	77.0	8.2	3.30	1478	17.49	3.35
1240	FM 800	4.40	1.20	84.8	30.5	7.7	78.5	8.1	3.10	1222	17.60	3.60
1140	DELTA PEARL	4.45	1.10	83.0	29.5	7.5	77.0	8.4	4.15	1255	16.95	3.70
1201	DPL 491	4.30	1.20	84.0	31.5	7.9	75.5	9.2	3.90	1141	16.46	3.50
1128	ACALA 1517-99	3.40	1.20	83.3	34.0	7.8	75.5	9.5	3.45	1293	18.48	3.45
1244	GA 200009	3.85	1.20	84.0	31.0	7.8	74.5	9.3	3.80	1047	15.74	3.30
.	LSD	0.54	0.07	1.1	3.1	0.5	3.4	0.6	0.55	351	1.58	0.39

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS--- PLUS (+)	MINUS (-)	TOTAL (%)	----------AREALOMETER DATA---------- A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1241	DP 444 BR	0.78	0.44	1.22	463	14.3	1.42	97	38.29	3.20	2.8
1248	STX 108	0.80	0.45	1.25	445	29.0	1.74	84	49.17	4.27	2.8

1158	PSC 355	0.89	0.52	1.41	466	21.3	1.58	90	42.55	3.53	2.7
1196	STV 4892 BR	0.84	0.53	1.37	458	28.5	1.73	85	47.52	4.01	2.7
1243	SYNGENTA N 2429	0.89	0.51	1.40	478	30.3	1.77	84	46.36	3.75	2.6
1239	FM 958Bt	0.57	0.45	1.02	404	18.3	1.51	93	47.00	4.52	3.2
1238	FM 960	0.71	0.48	1.19	437	23.8	1.64	88	46.96	4.16	2.9
1242	AR 9203-17-12	0.82	0.50	1.32	492	21.8	1.60	90	40.63	3.20	2.6
1224	DP 555 R/R	0.62	0.40	1.01	453	25.0	1.66	87	46.04	3.93	2.8
1247	STX 104	0.70	0.33	1.03	498	32.0	1.80	82	45.32	3.52	2.5
1152	DPL 458 BG/RR	0.73	0.51	1.23	475	28.3	1.73	85	45.49	3.70	2.6
1230	TAM 96 WD-18	0.74	0.47	1.20	451	29.8	1.76	84	48.76	4.22	2.7
1245	GA 98 0 66	0.77	0.55	1.31	439	29.3	1.75	84	50.03	4.41	2.8
1246	MD 832n	0.59	0.42	1.01	452	29.0	1.74	84	48.37	4.14	2.7
1249	FM 832 LL	0.44	0.32	0.76	512	36.8	1.89	79	46.43	3.51	2.3
1240	FM 800	0.56	0.39	0.95	445	28.8	1.74	84	49.15	4.28	2.8
1140	DELTA PEARL	0.60	0.38	0.98	438	24.5	1.65	88	47.12	4.17	2.8
1201	DPL 491	0.69	0.53	1.22	453	28.8	1.74	84	48.07	4.10	2.7
1128	ACALA 1517-99	0.62	0.40	1.02	524	31.8	1.80	82	43.14	3.19	2.3
1244	GA 200009	0.68	0.46	1.14	482	30.0	1.76	84	45.94	3.69	2.6
.	LSD	0.12	0.12	0.21	43.4	10.2	0.21	8	3.54	0.47	0.3

RETURN TO 2003 NCVT COVER PAGE

Thank you for your interest in the ongoing work of the National Cotton Variety Test Program.

Questions or comments to: ekeene@ars.usda.gov

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2003 National Cotton Variety Test

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National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

2003 PIMA REGIONAL COTTON VARIETY TEST

PIMA
VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1210	OA 340	1315	3.33	38.1	12.1	187	0.67	29.0	291	8.9
1219	PD 744	1222	3.37	36.9	12.4	198	0.73	32.8	329	6.9
1211	PHY 76	1060	3.19	37.5	12.4	196	0.69	29.3	293	7.3
615	PIMA S-7	1053	3.22	37.1	12.3	193	0.69	31.3	314	9.4
1218	CH 007	1034	2.97	35.9	12.0	184	0.69	29.9	300	7.2
471	PIMA S-6	998	3.05	37.3	12.7	197	0.69	30.7	308	9.3
.	LSD	298	0.38	2.5	0.6	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1210	OA 340	4.10	1.30	88.7	49.5	9.7	69.0	10.5	4.35	2068	21.65	3.45
1219	PD 744	4.40	1.40	90.2	49.0	9.5	70.0	10.0	4.00	2072	22.38	3.63
1211	PHY 76	4.35	1.35	89.2	46.5	10.0	64.5	13.0	4.15	1755	21.65	3.30
615	PIMA S-7	4.20	1.40	89.0	53.0	9.7	63.5	11.0	4.30	1481	22.01	3.13
1218	CH 007	3.90	1.35	88.8	46.5	9.0	61.0	12.0	3.90	1631	21.91	3.18
471	PIMA S-6	4.20	1.35	89.2	47.0	9.7	66.0	12.0	4.20	1537	22.84	3.15
.	LSD	.	.	.	.	.	.	.	.	492	2.98	0.53

VARIETY CODE	VARIETY NAME	---GOSSYPOL LEVELS--- PLUS (+)	MINUS (-)	TOTAL (%)	----------AREALOMETER DATA---------- A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1210	OA 340	0.55	0.66	1.21	448	10.8	1.33	100	37.31	3.24	3.0
1219	PD 744	0.76	0.76	1.51	432	7.3	1.23	103	35.72	3.20	3.3
1211	PHY 76	0.73	0.72	1.44	440	6.5	1.21	105	34.46	3.03	3.2
615	PIMA S-7	0.60	0.66	1.26	450	7.8	1.24	103	34.69	2.98	3.1
1218	CH 007	0.68	0.79	1.47	447	8.3	1.26	103	35.30	3.06	3.1
471	PIMA S-6	0.66	0.67	1.32	442	6.0	1.20	105	33.92	2.97	3.2
.	LSD	0.18	0.19	0.36	.	.	.	.	.	.	.

---------- reg=61 REGION=PIMA ----------

VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
1219	PD 744	1480	3.89	39.0	12.2	.	.	.	.	.

1210	OA 340	1459	3.68	38.9	12.3	.	.	.	.	.
1218	CH 007	1405	3.54	38.1	11.8	.	.	.	.	.
1211	PHY 76	1401	3.82	40.0	12.1	.	.	.	.	.
471	PIMA S-6	1331	3.68	38.8	12.5	.	.	.	.	.
615	PIMA S-7	1327	3.75	38.2	12.3	.	.	.	.	.

			SL-HVI Starlab (Calibrated to USDA SL-HVI Std.)								
		MICRO-	2.5%	UNIFO-	STRE-	COLORIMETER			MICRO-	SEED	NITR
						HUNTER'S					
VARIETY CODE	VARIETY NAME	NAIRE (reading)	S.L. (in.)	MITY (%)	NGTH (g/tex)	E	Rd	b	NAIRE (Reading)	YIELD (lb/ac)	OIL (%)	OGEN (%)
1219	PD 744	.	.	.	.	.	.	.	.	2339	24.71	3.15
1210	OA 340	.	.	.	.	.	.	.	.	2165	21.87	3.15
1218	CH 007	.	.	.	.	.	.	.	.	1958	24.36	2.80
1211	PHY 76	.	.	.	.	.	.	.	.	2179	23.66	2.60
471	PIMA S-6	.	.	.	.	.	.	.	.	1884	24.80	2.70
615	PIMA S-7	.	.	.	.	.	.	.	.	1579	24.16	2.80

		---GOSSYPOL LEVELS---			----------AREALOMETER DATA----------						
VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A	D ---(mm2/mm3)---	I	M (%)	p (microns)	w (mg/in)	t (microns)
1219	PD 744	0.91	0.90	1.81	.	.	.	.	.	.	.
1210	OA 340	0.63	0.75	1.37	.	.	.	.	.	.	.
1218	CH 007	0.86	1.00	1.86	.	.	.	.	.	.	.
1211	PHY 76	0.86	0.83	1.69	.	.	.	.	.	.	.
471	PIMA S-6	0.71	0.73	1.44	.	.	.	.	.	.	.
615	PIMA S-7	0.72	0.78	1.50	.	.	.	.	.	.	.

---------- reg=62 REGION=PIMA ----------

VARIETIES COMBINING LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1210	OA 340	1172	2.98	37.3	12.0	187	0.67	29.0	291	8.9
1219	PD 744	965	2.85	34.8	12.6	198	0.73	32.8	329	6.9
615	PIMA S-7	779	2.69	36.0	12.3	193	0.69	31.3	314	9.4
1211	PHY 76	719	2.56	35.0	12.7	196	0.69	29.3	293	7.3
471	PIMA S-6	666	2.41	35.9	13.0	197	0.69	30.7	308	9.3
1218	CH 007	664	2.40	33.7	12.1	184	0.69	29.9	300	7.2

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1210	OA 340	4.10	1.30	88.7	49.5	9.7	69.0	10.5	4.35	1970	21.43	3.75
1219	PD 744	4.40	1.40	90.2	49.0	9.5	70.0	10.0	4.00	1806	20.05	4.10
615	PIMA S-7	4.20	1.40	89.0	53.0	9.7	63.5	11.0	4.30	1382	19.86	3.45
1211	PHY 76	4.35	1.35	89.2	46.5	10.0	64.5	13.0	4.15	1330	19.63	4.00
471	PIMA S-6	4.20	1.35	89.2	47.0	9.7	66.0	12.0	4.20	1190	20.89	3.60
1218	CH 007	3.90	1.35	88.8	46.5	9.0	61.0	12.0	3.90	1303	19.46	3.55

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER A (mm2/mm3)	AREALOMETER D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1210	OA 340	0.48	0.57	1.05	448	10.8	1.33	100	37.31	3.24	3.0
1219	PD 744	0.61	0.62	1.22	432	7.3	1.23	103	35.72	3.20	3.3
615	PIMA S-7	0.48	0.55	1.02	450	7.8	1.24	103	34.69	2.98	3.1
1211	PHY 76	0.59	0.60	1.19	440	6.5	1.21	105	34.46	3.03	3.2
471	PIMA S-6	0.61	0.61	1.21	442	6.0	1.20	105	33.92	2.97	3.2
1218	CH 007	0.50	0.58	1.07	447	8.3	1.26	103	35.30	3.06	3.1

INDIVIDUAL COMPONENT DATA

BOLL SIZE, GRAM PER BOLL	
PD 744	3.37
OA 340	3.33
PIMA S-7	3.22
PHY 76	3.19
PIMA S-6	3.05
CH 007	2.97
LSD	0.38

LINT PERCENT	
OA 340	38.1
PHY 76	37.5
PIMA S-6	37.3
PIMA S-7	37.1
PD 744	36.9
CH 007	35.9
LSD	2.5

SEED INDEX	
PIMA S-6	12.7
PD 744	12.4
PHY 76	12.4
PIMA S-7	12.3
OA 340	12.1
CH 007	12.0
LSD	0.6

2.5% S.L. (INCHES)	
PD 744	1.40
PIMA S-7	1.40
PIMA S-6	1.35
PHY 76	1.35
CH 007	1.35
OA 340	1.30
LSD	.

UR (PERCENT)	
PD 744	90.2
PIMA S-6	89.2
PHY 76	89.2
PIMA S-7	89.0
CH 007	88.8
OA 340	88.7
LSD	.

STRENGTH (G/TEX)	
PIMA S-7	53.0
OA 340	49.5
PD 744	49.0
PIMA S-6	47.0
PHY 76	46.5
CH 007	46.5
LSD	.

E	
PHY 76	10.0
PIMA S-6	9.7
OA 340	9.7
PIMA S-7	9.7
PD 744	9.5
CH 007	9.0
LSD	.

MICRONAIRE (SL-HVI)	
OA 340	4.35
PIMA S-7	4.30
PIMA S-6	4.20
PHY 76	4.15
PD 744	4.00
CH 007	3.90
LSD	.

COLORIMETER - Rd	
PD 744	70.0
OA 340	69.0
PIMA S-6	66.0
PHY 76	64.5
PIMA S-7	63.5
CH 007	61.0
LSD	.

COLORIMETER - b	

MICRONAIRE	

STELOMETER - E1	

PHY 76	13.0
PIMA S-6	12.0
CH 007	12.0
PIMA S-7	11.0
OA 340	10.5
PD 744	10.0
LSD	.

PD 744	4.40
PHY 76	4.35
PIMA S-7	4.20
PIMA S-6	4.20
OA 340	4.10
CH 007	3.90
LSD	.

PIMA S-7	9.4
PIMA S-6	9.3
OA 340	8.9
PHY 76	7.3
CH 007	7.2
PD 744	6.9
LSD	.

STELOMETER - T1	
PD 744	329
PIMA S-7	314
PIMA S-6	308
CH 007	300
PHY 76	293
OA 340	291
LSD	.

FIBROGRAPH--50% S.L.	
PD 744	32.8
PIMA S-7	31.3
PIMA S-6	30.7
CH 007	29.9
PHY 76	29.3
OA 340	29.0
LSD	.

FIBROGRAPH--2.5% S.L.	
PD 744	0.73
PIMA S-7	0.69
CH 007	0.69
PHY 76	0.69
PIMA S-6	0.69
OA 340	0.67
LSD	.

YARN TENACITY	
PD 744	198
PIMA S-6	197
PHY 76	196
PIMA S-7	193
OA 340	187
CH 007	184
LSD	.

AREALOMETER - A (mm2/mm3)	
PIMA S-7	450
OA 340	448
CH 007	447
PIMA S-6	442
PHY 76	440
PD 744	432
LSD	.

AREALOMETER - D (mm2/mm3)	
OA 340	10.8
CH 007	8.3
PIMA S-7	7.8
PD 744	7.3
PHY 76	6.5
PIMA S-6	6.0
LSD	.

AREALOMETER - I	
OA 340	1.33
CH 007	1.26
PIMA S-7	1.24
PD 744	1.23

AREALOMETER - M (PERCENT)	
PIMA S-6	105
PHY 76	105
PIMA S-7	103
PD 744	103

AREALOMETER - p (Microns)	
OA 340	37.31
PD 744	35.72
CH 007	35.30
PIMA S-7	34.69

PHY 76	1.21
PIMA S-6	1.20
LSD	.

CH 007	103
OA 340	100
LSD	.

PHY 76	34.46
PIMA S-6	33.92
LSD	.

AREALOMETER - w (MG/INCH)	
OA 340	3.24
PD 744	3.20
CH 007	3.06
PHY 76	3.03
PIMA S-7	2.98
PIMA S-6	2.97
LSD	.

AREALOMETER - t (MICRONS)	
PD 744	3.3
PHY 76	3.2
PIMA S-6	3.2
CH 007	3.1
PIMA S-7	3.1
OA 340	3.0
LSD	.

SEED YIELD (LB/ACRE)	
PD 744	2072
OA 340	2068
PHY 76	1755
CH 007	1631
PIMA S-6	1537
PIMA S-7	1481
LSD	492

OIL (PERCENT)	
PIMA S-6	22.84
PD 744	22.38
PIMA S-7	22.01
CH 007	21.91
OA 340	21.65
PHY 76	21.65
LSD	2.98

NITROGEN (PERCENT)	
PD 744	3.63
OA 340	3.45
PHY 76	3.30
CH 007	3.18
PIMA S-6	3.15
PIMA S-7	3.13
LSD	0.53

PLUS GOSSYPOL	
PD 744	0.76
PHY 76	0.73
CH 007	0.68
PIMA S-6	0.66
PIMA S-7	0.60
OA 340	0.55
LSD	0.18

MINUS GOSSYPOL	
CH 007	0.79
PD 744	0.76
PHY 76	0.72
PIMA S-6	0.67
PIMA S-7	0.66
OA 340	0.66
LSD	0.19

TOTAL GOSSYPOL (PERCENT)	
PD 744	1.51
CH 007	1.47
PHY 76	1.44
PIMA S-6	1.32
PIMA S-7	1.26
OA 340	1.21
LSD	0.36

LOCATIONS COMBINING VARIETIES

LOCATION	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
EL PASO, TX (PIMA)	1400	3.73	38.8	12.2	.	.	.	.	.
MARICOPA, AZ	827	2.65	35.5	12.4	192	0.69	30.5	305	8.1

LOCATION	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
EL PASO, TX (PIMA)	.	.	.	.	.	.	.	.	2017	23.92	2.87
MARICOPA, AZ	4.19	1.36	89.2	48.6	9.6	65.7	11.4	4.15	1497	20.22	3.74

LOCATION	GOSSYPOL LEVELS PLUS (+)	GOSSYPOL LEVELS MINUS (-)	GOSSYPOL LEVELS TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
EL PASO, TX (PIMA)	0.78	0.83	1.61	.	.	.	.	.	.	.
MARICOPA, AZ	0.54	0.59	1.13	443	7.8	1.24	103	35.23	3.08	3.1

EL PASO, TX (PIMA)
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1219	PD 744	1480	3.89	39.0	12.2	.	.	.	.	.
1210	OA 340	1459	3.68	38.9	12.3	.	.	.	.	.
1218	CH 007	1405	3.54	38.1	11.8	.	.	.	.	.
1211	PHY 76	1401	3.82	40.0	12.1	.	.	.	.	.
471	PIMA S-6	1331	3.68	38.8	12.5	.	.	.	.	.
615	PIMA S-7	1327	3.75	38.2	12.3	.	.	.	.	.
.	LSD	248	.	.	.	.	.	.	.	.

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1219	PD 744	.	.	.	.	.	.	.	.	2339	24.71	3.15
1210	OA 340	.	.	.	.	.	.	.	.	2165	21.87	3.15
1218	CH 007	.	.	.	.	.	.	.	.	1958	24.36	2.80
1211	PHY 76	.	.	.	.	.	.	.	.	2179	23.66	2.60
471	PIMA S-6	.	.	.	.	.	.	.	.	1884	24.80	2.70
615	PIMA S-7	.	.	.	.	.	.	.	.	1579	24.16	2.80
.	LSD	.	.	.	.	.	.	.	.	.	1.94	0.43

VARIETY CODE	VARIETY NAME	GOSSYPOL LEVELS PLUS (+)	MINUS (-)	TOTAL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1219	PD 744	0.91	0.90	1.81	.	.	.	.	.	.	.
1210	OA 340	0.63	0.75	1.37	.	.	.	.	.	.	.
1218	CH 007	0.86	1.00	1.86	.	.	.	.	.	.	.
1211	PHY 76	0.86	0.83	1.69	.	.	.	.	.	.	.
471	PIMA S-6	0.71	0.73	1.44	.	.	.	.	.	.	.

615	PIMA S-7	0.72	0.78	1.50	.	.	.	.	.	.	.
.	LSD	0.16	0.16	0.33	.	.	.	.	.	.	.

MARICOPA, AZ
VARIETIES BY LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1210	OA 340	1172	2.98	37.3	12.0	187	0.67	29.0	291	8.9
1219	PD 744	965	2.85	34.8	12.6	198	0.73	32.8	329	6.9
615	PIMA S-7	779	2.69	36.0	12.3	193	0.69	31.3	314	9.4
1211	PHY 76	719	2.56	35.0	12.7	196	0.69	29.3	293	7.3
471	PIMA S-6	666	2.41	35.9	13.0	197	0.69	30.7	308	9.3
1218	CH 007	664	2.40	33.7	12.1	184	0.69	29.9	300	7.2
.	LSD	165	0.38	0.8	0.5	16	0.04	3.32	33	1.5

VARIETY CODE	VARIETY NAME	MICRO-NAIRE (reading)	SL-HVI Starlab (Calibrated to USDA SL-HVI Std.) 2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRO-NAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)	NITR OGEN (%)
1210	OA 340	4.10	1.30	88.7	49.5	9.7	69.0	10.5	4.35	1970	21.43	3.75
1219	PD 744	4.40	1.40	90.2	49.0	9.5	70.0	10.0	4.00	1806	20.05	4.10
615	PIMA S-7	4.20	1.40	89.0	53.0	9.7	63.5	11.0	4.30	1382	19.86	3.45
1211	PHY 76	4.35	1.35	89.2	46.5	10.0	64.5	13.0	4.15	1330	19.63	4.00
471	PIMA S-6	4.20	1.35	89.2	47.0	9.7	66.0	12.0	4.20	1190	20.89	3.60
1218	CH 007	3.90	1.35	88.8	46.5	9.0	61.0	12.0	3.90	1303	19.46	3.55
.	LSD	0.33	0.13	2.5	3.5	0.6	2.3	1.5	0.35	288	1.66	0.31

---GOSSYPOL LEVELS--- ----------AREALOMETER DATA----------

VARIETY CODE	VARIETY NAME	PLUS (+)	MINUS (-)	TOTAL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1210	OA 340	0.48	0.57	1.05	448	10.8	1.33	100	37.31	3.24	3.0
1219	PD 744	0.61	0.62	1.22	432	7.3	1.23	103	35.72	3.20	3.3
615	PIMA S-7	0.48	0.55	1.02	450	7.8	1.24	103	34.69	2.98	3.1
1211	PHY 76	0.59	0.60	1.19	440	6.5	1.21	105	34.46	3.03	3.2
471	PIMA S-6	0.61	0.61	1.21	442	6.0	1.20	105	33.92	2.97	3.2
1218	CH 007	0.50	0.58	1.07	447	8.3	1.26	103	35.30	3.06	3.1
.	LSD	0.06	0.06	0.13	33.5	4.5	0.13	6	5.12	0.64	0.3

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Thank you for your interest in the ongoing work of the National Cotton Variety Test Program.

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Any time you see the cotton boll photograph as shown here, you may click on it to return to the top of the document.

National Cotton Variety Tests, 2003
Yield, Boll, Seed, Spinning and Data

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 fifteenth 3-year testing cycle, beginning in 2002, the national standards were Acala 1517-99, All Tex Atlas, DP 458 B/R, and Stoneville 4892 B/R. 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 1994, the National Cotton Variety Testing Program was organized as shown on the covermap. 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 1996, results of the Regional Project S-205 Regional Bollworm-Budworm Tests and the Regional Short Season 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. These results are no longer provided to the National Cotton Variety Testing staff.

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

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station
Delta Substation
Clarkedale, AR

Mississippi Agricultural and Forestry Experiment Station
Delta Branch
Stoneville, MS

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
Neuces County, 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 and Extension Center
(Chillicothe)
Dryland
Test Chillicothe, TX
Agricultural Research and 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
Las Cruces, NM
Southeastern Branch Station
Artesia, NM
Texas A&M University
Agricultural Research Center
Pecos, TX

High Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station
Tennessee Valley Substation
Belle Mina, AL
Arkansas Agricultural Experiment Station
Delta Substation
Keiser, AR
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 and Forestry Experiment Station
Delta Branch
Stoneville, MS
North Carolina State University

Upper Coastal Plain Experiment Station
Rocky Mount, NC
Texas A&M University
Texas Agricultual Experiment Station
College Station, TX
Safford, AZ

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station
Cotton Research Center
Maricopa, AZ
California Agricultural Experiment Station
West Side Field Station
West Side Field Station, CA
Kern, CA
Shafter, CA
Merced, CA
New Mexico Agricultural Experiment Station
Off-Station Test
Las Cruces, NM

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.

**Test was discontinued in 1994 due to costs of processing samples.

Explanations and Definitions

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:

$$I = \sqrt{(0.07D+1)}$$

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 belowabout 35%. Values of M above 100% were obtained on some samples and are reported asobtained. 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:

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

(t) Wall thickness in microns calculated from:

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

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 180øF 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 ofthe mass of seed cotton.

Lint yield. The mean production of the plots harvested, expressed in pounds of lint per acre andreported 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.

Seed Yield/Acre. The yield in pounds of seed per acre for each plot was calculated and reported. (Reporting started with the 1994 tests.) The calculation used is:

(LINT YIELD/ACRE) X ((100-LINT%) / LINT%)

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 andcorrected 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.

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