1999 National Cotton Variety Test

Crop Genetics & Production Research Unit
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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, 1999
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, 1999.

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

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United States Department of Agriculture
Agricultural Research Service
Crop Genetics & Production Research Unit
P.O. Box 345

Stoneville, MS 38776

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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
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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 Maxxa

-- CPCSD, Shafter, CA;

All Tex Atlas

-- All Tex Seed Company, Levelland, TX

DPL NuCotn 33B

-- Delta and Pine Land Company, Scott, MS; and

SureGrow 747

-- SureGrow, Stoneville, MS.

Joint Cotton Breeding Policy Committee

(As of January 2000)

R. L. Rogers, (Chairman) Lousiana 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
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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 2000)

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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 - 1999
Yield Archive File	1960 - 1999
Fiber Quality Archive File	1960 - 1999
Pima Combed Yarn Archive File	1962 - 1999

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 fourteenth 3-year testing cycle, beginning in 1999, the national standards were Acala Maxxa, All Tex Atlas, DPL NuCotn 33B, and Suregrow 747. 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.

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

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

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

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

Arizona Regional Cotton Variety Test

Arizona Agricultural Experiment Station
Cotton Research Center
Maricopa, AZ
Safford Branch Experiment Station
Off-Station Test
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 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 strength on the Stelometer.

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

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

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

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

Introduction and Explanations

Reporting Variations

Arizona Region Test Results:

The two reporting locations did not utilize the same varieties of cottons in the tests.

Cotton varieties tested in the 1999 National Cotton Variety Tests:

VARIETY CODE	VARIETY NAME	IN REGION
1138	94 L-2S	HIGH QUALITY
1139	94 WD-17	HIGH QUALITY
788	ACALA 1517-91	ARIZONA
874	ACALA 1517-95	WESTERN
1128	ACALA 1517-99	WESTERN
773	ACALA MAXXA	NATIONAL STANDARD - ALL REGIONS
380	ACALA SJ-2	SAN JOAQUIN
1129	ACALA W 1218	WESTERN
1019	ALL TEX ATLAS	NATIONAL STANDARD - ALL REGIONS

1131	ALL TEX EXCESS	PLAINS
1115	AP 6101	ARIZONA
1162	AP 7115	ARIZONA
1063	ARK 87-12	HIGH QUALITY
1091	B 27	ARIZONA
996	C 143	SAN JOAQUIN
974	CONQUISTADOR	PIMA
1140	DELTA PEARL	HIGH QUALITY
689	DELTAPINE 50	BLACKLAND, CENTRAL
857	DELTAPINE 5415	ARIZONA
649	DELTAPINE 90	ARIZONA
1130	DELTAPINE 90 B	WESTERN
1132	DP 2156	PLAINS
1141	DP 675	HIGH QUALITY
1154	DPL 422 BRR	ARIZONA
1155	DPL 451 BRR	ARIZONA
1152	DPL 458 BG/RR	ARIZONA, EASTERN
1095	DPL 5111	DELTA
1102	DPL 5415 RR	EASTERN
900	DPL 5461	SAN JOAQUIN
1153	DPL 655 BG/RR	ARIZONA, EASTERN
1099	DPL NuCotn 35	EASTERN
1143	DPX 8C09	HIGH QUALITY
1142	DPX 9765	HIGH QUALITY
1117	FIBERMAX 832	CENTRAL, EASTERN
1103	FIBERMAX 989	ARIZONA, EASTERN, HIGH QUALITY
1144	GA 569	HIGH QUALITY
1070	GC 120	ARIZONA
1072	GC 303	ARIZONA
1004	H 1244 HARTZ	PLAINS
1156	HCR 7126	ARIZONA
1145	JACO 7164	HIGH QUALITY
1146	JACO 7165	HIGH QUALITY
1073	MAC 95	ARIZONA
1147	MD 84-1	HIGH QUALITY
1009	NU 33 B	NATIONAL STANDARD - ALL REGIONS
1030	OA 211	SAN JOAQUIN
1108	OA 325 (DP-HTO)	PIMA
1157	PAYMASTER 1440	ARIZONA
1134	PAYMASTER 2145 RR	PLAINS
1135	PAYMASTER 2326 RR	PLAINS
1133	PAYMASTER 330	PLAINS
1096	PAYMASTER PM 1220 RR	EASTERN

1097	PAYMASTER PM 1560 BG	ARIZONA, CENTRAL, DELTA, EASTERN
1136	PAYMASTER TEJAS	PLAINS
1148	PD 94063	HIGH QUALITY
947	PHY 33	SAN JOAQUIN
1137	PHYTOGEN PSC 355	DELTA, HIGH QUALITY
471	PIMA S-6	PIMA
615	PIMA S-7	PIMA
1149	PMX 9506-0081	HIGH QUALITY
1158	PSC 355	ARIZONA
1159	PSC 952	ARIZONA
1150	PSC GA 161	HIGH QUALITY
953	SG 125	ARIZONA, CENTRAL
1080	SG 248	EASTERN
1104	SG 747	NATIONAL STANDARD - ALL REGIONS
906	SOUTHLAND 400	PLAINS
1151	SS 9815	HIGH QUALITY
971	STV 474	ARIZONA, CENTRAL, DELTA, PLAINS
1106	STV BXN 47	DELTA, EASTERN
1163	SUREGROW 105	ARIZONA
915	SUREGROW 501	DELTA, EASTERN
1160	SUREGROW 821	ARIZONA
1018	TAMCOT SPHINX	BLACKLAND, PLAINS
1161	TERRA 292	ARIZONA

1999 REGIONAL SHORT SEASON TEST RESULTS

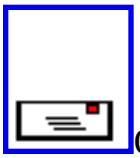
DELTA RESEARCH AND EXTENSION CENTER
DR. J. CREECH
At the request of Dr. Creech, please access the 1999 Regional Short Season Test Results through the Delta Research and Extension Center Home Page.

1999 REGIONAL SHORT SEASON TEST

1999 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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Jamie Whitten Delta States Research Center

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1999 EASTERN REGIONAL COTTON VARIETY TEST

EASTERN REGION
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 (%)
1099	DPL NuCotn 35	721	4.00	39.2	9.1	135	1.05	0.53	224	6.7
1097	PAYMASTER PM 1560 BG	695	4.17	41.4	9.6	126	1.01	0.52	215	7.7
1153	DPL 655 BG/RR	686	3.83	38.4	9.0	139	1.05	0.53	224	7.2
1080	SG 248	649	3.83	41.5	10.0	133	1.08	0.54	222	6.9
1104	SG 747	647	4.33	41.3	9.1	116	1.04	0.53	186	8.7
1009	NU 33 B	635	4.00	38.8	8.9	126	1.04	0.52	212	7.7
1102	DPL 5415 RR	624	3.83	40.2	8.2	129	1.04	0.53	226	8.1
1103	FIBERMAX 989	616	4.00	40.5	10.1	145	1.06	0.55	246	6.8
1117	FIBERMAX 832	610	4.50	40.7	9.9	151	1.11	0.56	242	6.5

915	SUREGROW 501	595	3.83	41.6	8.7	143	1.04	0.53	246	8.0
1096	PAYMASTER PM 1220 RR	590	4.67	40.9	9.9	122	1.02	0.52	211	7.1
1106	STV BXN 47	566	3.50	41.6	9.1	124	1.05	0.52	189	7.5
1152	DPL 458 BG/RR	535	3.67	40.4	8.0	123	1.03	0.52	216	7.0
1019	ALL TEX ATLAS	449	4.33	36.6	9.9	138	1.01	0.52	236	8.0
773	ACALA MAXXA	405	4.17	39.9	10.3	154	1.09	0.56	254	7.2
.	LSD	137	0.49	1.7	1.5	5	0.04	0.02	16	0.7

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1099	DPL NuCotn 35	4.73	1.05	82.0	33.5	9.8	69.3	8.6	4.85	1110	0.42
1097	PAYMASTER PM 1560 BG	4.85	1.00	82.0	31.2	10.2	71.0	9.0	5.12	1053	0.59
1153	DPL 655 BG/RR	4.53	1.05	81.9	33.8	9.9	71.5	9.0	4.67	1147	0.70
1080	SG 248	5.05	1.08	82.2	32.3	9.8	71.0	9.0	5.18	932	0.39
1104	SG 747	4.90	1.03	82.3	27.8	10.1	68.3	9.8	5.08	870	0.70
1009	NU 33 B	4.72	1.05	81.9	30.7	9.8	71.0	9.1	4.90	1095	0.37
1102	DPL 5415 RR	5.10	1.00	82.5	32.7	10.2	72.0	9.0	5.22	1030	0.39
1103	FIBERMAX 989	4.45	1.03	82.0	34.2	9.6	70.3	8.8	4.58	939	0.65
1117	FIBERMAX 832	4.63	1.10	83.4	34.5	9.7	69.7	8.4	4.83	911	0.59
915	SUREGROW 501	4.80	1.02	82.7	34.3	10.8	67.5	9.3	4.93	729	0.52
1096	PAYMASTER PM 1220 RR	4.97	1.00	82.3	30.7	9.7	69.7	9.5	5.08	785	0.72
1106	STV BXN 47	4.72	1.05	82.2	28.8	9.4	69.2	9.5	4.80	776	0.59
1152	DPL 458 BG/RR	5.05	1.00	81.9	31.0	9.8	71.3	9.3	5.30	749	0.40
1019	ALL TEX ATLAS	4.33	1.00	81.9	34.3	10.2	69.7	8.8	4.33	694	0.47
773	ACALA MAXXA	3.88	1.10	82.9	37.7	9.9	70.2	9.0	3.93	658	0.47
.	LSD	0.39	0.05	0.7	1.7	0.3	3.3	0.5	0.44	235	0.32

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1099	DPL NuCotn 35	3.90	0.69	.	.	.	.	.	.	.

1097	PAYMASTER PM 1560 BG	4.15	0.57	.	.	.	.	.	.	.
1153	DPL 655 BG/RR	3.85	0.67	.	.	.	.	.	.	.
1080	SG 248	3.85	0.58	.	.	.	.	.	.	.
1104	SG 747	3.87	0.43	401	26.3	1.68	87	52.65	5.17	3.1
1009	NU 33 B	3.92	0.65	393	16.6	1.47	94	46.84	4.64	3.3
1102	DPL 5415 RR	3.90	0.66	.	.	.	.	.	.	.
1103	FIBERMAX 989	3.82	0.55	.	.	.	.	.	.	.
1117	FIBERMAX 832	4.10	0.48	.	.	.	.	.	.	.
915	SUREGROW 501	3.80	0.67	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	4.05	0.63	.	.	.	.	.	.	.
1106	STV BXN 47	4.07	0.70	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	3.81	0.63	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.88	0.52	436	25.6	1.65	87	47.55	4.28	2.9
773	ACALA MAXXA	4.22	0.55	478	32.8	1.79	82	47.22	3.95	2.7
.	LSD	0.31	0.15	50.0	13.5	0.27	11	5.02	0.49	0.4

REGION=EASTERN

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
PAYMASTER PM 1220 RR	4.67	SUREGROW 501	41.6	ACALA MAXXA	10.3
FIBERMAX 832	4.50	STV BXN 47	41.6	FIBERMAX 989	10.1
ALL TEX ATLAS	4.33	SG 248	41.5	SG 248	10.0
SG 747	4.33	PAYMASTER PM 1560 BG	41.4	ALL TEX ATLAS	9.9
ACALA MAXXA	4.17	SG 747	41.3	PAYMASTER PM 1220 RR	9.9
PAYMASTER PM 1560 BG	4.17	PAYMASTER PM 1220 RR	40.9	FIBERMAX 832	9.9
NU 33 B	4.00	FIBERMAX 832	40.7	PAYMASTER PM 1560 BG	9.6
DPL NuCotn 35	4.00	FIBERMAX 989	40.5	SG 747	9.1
FIBERMAX 989	4.00	DPL 458 BG/RR	40.4	STV BXN 47	9.1
SUREGROW 501	3.83	DPL 5415 RR	40.2	DPL NuCotn 35	9.1
SG 248	3.83	ACALA MAXXA	39.9	DPL 655 BG/RR	9.0
DPL 5415 RR	3.83	DPL NuCotn 35	39.2	NU 33 B	8.9
DPL 655 BG/RR	3.83	NU 33 B	38.8	SUREGROW 501	8.7
DPL 458 BG/RR	3.67	DPL 655 BG/RR	38.4	DPL 5415 RR	8.2
STV BXN 47	3.50	ALL TEX ATLAS	36.6	DPL 458 BG/RR	8.0
LSD	0.49	LSD	1.7	LSD	1.5

2.5% S.L. (INCHES)	
ACALA MAXXA	1.10
FIBERMAX 832	1.10
SG 248	1.08
STV BXN 47	1.05
DPL NuCotn 35	1.05
DPL 655 BG/RR	1.05
NU 33 B	1.05
FIBERMAX 989	1.03
SG 747	1.03
SUREGROW 501	1.02
ALL TEX ATLAS	1.00
PAYMASTER PM 1220 RR	1.00
PAYMASTER PM 1560 BG	1.00
DPL 5415 RR	1.00
DPL 458 BG/RR	1.00
LSD	0.05

UR (PERCENT)	
FIBERMAX 832	83.4
ACALA MAXXA	82.9
SUREGROW 501	82.7
DPL 5415 RR	82.5
PAYMASTER PM 1220 RR	82.3
SG 747	82.3
STV BXN 47	82.2
SG 248	82.2
PAYMASTER PM 1560 BG	82.0
FIBERMAX 989	82.0
DPL NuCotn 35	82.0
DPL 655 BG/RR	81.9
ALL TEX ATLAS	81.9
NU 33 B	81.9
DPL 458 BG/RR	81.9
LSD	0.7

STRENGTH (G/TEX)	
ACALA MAXXA	37.7
FIBERMAX 832	34.5
SUREGROW 501	34.3
ALL TEX ATLAS	34.3
FIBERMAX 989	34.2
DPL 655 BG/RR	33.8
DPL NuCotn 35	33.5
DPL 5415 RR	32.7
SG 248	32.3
PAYMASTER PM 1560 BG	31.2
DPL 458 BG/RR	31.0
PAYMASTER PM 1220 RR	30.7
NU 33 B	30.7
STV BXN 47	28.8
SG 747	27.8
LSD	1.7

E	
SUREGROW 501	10.8
ALL TEX ATLAS	10.2
DPL 5415 RR	10.2
PAYMASTER PM 1560 BG	10.2
SG 747	10.1
ACALA MAXXA	9.9
DPL 655 BG/RR	9.9
NU 33 B	9.8
DPL 458 BG/RR	9.8
DPL NuCotn 35	9.8
SG 248	9.8
PAYMASTER PM 1220 RR	9.7
FIBERMAX 832	9.7
FIBERMAX 989	9.6
STV BXN 47	9.4

MICRONAIRE (SL-HVI)	
DPL 458 BG/RR	5.30
DPL 5415 RR	5.22
SG 248	5.18
PAYMASTER PM 1560 BG	5.12
SG 747	5.08
PAYMASTER PM 1220 RR	5.08
SUREGROW 501	4.93
NU 33 B	4.90
DPL NuCotn 35	4.85
FIBERMAX 832	4.83
STV BXN 47	4.80
DPL 655 BG/RR	4.67
FIBERMAX 989	4.58
ALL TEX ATLAS	4.33
ACALA MAXXA	3.93

COLORIMETER - Rd	
DPL 5415 RR	72.0
DPL 655 BG/RR	71.5
DPL 458 BG/RR	71.3
SG 248	71.0
PAYMASTER PM 1560 BG	71.0
NU 33 B	71.0
FIBERMAX 989	70.3
ACALA MAXXA	70.2
PAYMASTER PM 1220 RR	69.7
FIBERMAX 832	69.7
ALL TEX ATLAS	69.7
DPL NuCotn 35	69.3
STV BXN 47	69.2
SG 747	68.3
SUREGROW 501	67.5

LSD	0.3	LSD	0.44	LSD	3.3

COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
SG 747	9.8	DPL 5415 RR	5.10	SG 747	8.7
STV BXN 47	9.5	DPL 458 BG/RR	5.05	DPL 5415 RR	8.1
PAYMASTER PM 1220 RR	9.5	SG 248	5.05	SUREGROW 501	8.0
DPL 458 BG/RR	9.3	PAYMASTER PM 1220 RR	4.97	ALL TEX ATLAS	8.0
SUREGROW 501	9.3	SG 747	4.90	PAYMASTER PM 1560 BG	7.7
NU 33 B	9.1	PAYMASTER PM 1560 BG	4.85	NU 33 B	7.7
SG 248	9.0	SUREGROW 501	4.80	STV BXN 47	7.5
ACALA MAXXA	9.0	DPL NuCotn 35	4.73	DPL 655 BG/RR	7.2
DPL 655 BG/RR	9.0	STV BXN 47	4.72	ACALA MAXXA	7.2
PAYMASTER PM 1560 BG	9.0	NU 33 B	4.72	PAYMASTER PM 1220 RR	7.1
DPL 5415 RR	9.0	FIBERMAX 832	4.63	DPL 458 BG/RR	7.0
ALL TEX ATLAS	8.8	DPL 655 BG/RR	4.53	SG 248	6.9
FIBERMAX 989	8.8	FIBERMAX 989	4.45	FIBERMAX 989	6.8
DPL NuCotn 35	8.6	ALL TEX ATLAS	4.33	DPL NuCotn 35	6.7
FIBERMAX 832	8.4	ACALA MAXXA	3.88	FIBERMAX 832	6.5
LSD	0.5	LSD	0.39	LSD	0.7

STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
ACALA MAXXA	254	ACALA MAXXA	0.56	FIBERMAX 832	1.11
SUREGROW 501	246	FIBERMAX 832	0.56	ACALA MAXXA	1.09
FIBERMAX 989	246	FIBERMAX 989	0.55	SG 248	1.08
FIBERMAX 832	242	SG 248	0.54	FIBERMAX 989	1.06
ALL TEX ATLAS	236	SUREGROW 501	0.53	DPL 655 BG/RR	1.05
DPL 5415 RR	226	DPL 655 BG/RR	0.53	DPL NuCotn 35	1.05
DPL NuCotn 35	224	SG 747	0.53	STV BXN 47	1.05
DPL 655 BG/RR	224	DPL 5415 RR	0.53	SG 747	1.04
SG 248	222	DPL NuCotn 35	0.53	SUREGROW 501	1.04
DPL 458 BG/RR	216	PAYMASTER PM 1220 RR	0.52	NU 33 B	1.04
PAYMASTER PM 1560 BG	215	ALL TEX ATLAS	0.52	DPL 5415 RR	1.04
NU 33 B	212	STV BXN 47	0.52	DPL 458 BG/RR	1.03
PAYMASTER PM 1220 RR	211	DPL 458 BG/RR	0.52	PAYMASTER PM 1220 RR	1.02

STV BXN 47	189	PAYMASTER PM 1560 BG	0.52	PAYMASTER PM 1560 BG	1.01
SG 747	186	NU 33 B	0.52	ALL TEX ATLAS	1.01
LSD	16	LSD	0.02	LSD	0.04

YARN TENACITY		AREALOMETER - A (mm2/mm3)		AREALOMETER - D (mm2/mm3)	
ACALA MAXXA	154	ACALA MAXXA	478	ACALA MAXXA	32.8
FIBERMAX 832	151	ALL TEX ATLAS	436	SG 747	26.3
FIBERMAX 989	145	SG 747	401	ALL TEX ATLAS	25.6
SUREGROW 501	143	NU 33 B	393	NU 33 B	16.6
DPL 655 BG/RR	139	FIBERMAX 832	.	FIBERMAX 832	.
ALL TEX ATLAS	138	FIBERMAX 989	.	FIBERMAX 989	.
DPL NuCotn 35	135	SUREGROW 501	.	SUREGROW 501	.
SG 248	133	DPL 655 BG/RR	.	DPL 655 BG/RR	.
DPL 5415 RR	129	DPL NuCotn 35	.	DPL NuCotn 35	.
NU 33 B	126	SG 248	.	SG 248	.
PAYMASTER PM 1560 BG	126	DPL 5415 RR	.	DPL 5415 RR	.
STV BXN 47	124	PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.
DPL 458 BG/RR	123	STV BXN 47	.	STV BXN 47	.
PAYMASTER PM 1220 RR	122	DPL 458 BG/RR	.	DPL 458 BG/RR	.
SG 747	116	PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.
LSD	5	LSD	50.0	LSD	13.5

AREALOMETER - I		AREALOMETER - M (PERCENT)		AREALOMETER - p (Microns)	
ACALA MAXXA	1.79	NU 33 B	94	SG 747	52.65
SG 747	1.68	ALL TEX ATLAS	87	ALL TEX ATLAS	47.55
ALL TEX ATLAS	1.65	SG 747	87	ACALA MAXXA	47.22
NU 33 B	1.47	ACALA MAXXA	82	NU 33 B	46.84
FIBERMAX 832	.	FIBERMAX 832	.	FIBERMAX 832	.
FIBERMAX 989	.	FIBERMAX 989	.	FIBERMAX 989	.
SUREGROW 501	.	SUREGROW 501	.	SUREGROW 501	.
DPL 655 BG/RR	.	DPL 655 BG/RR	.	DPL 655 BG/RR	.
DPL NuCotn 35	.	DPL NuCotn 35	.	DPL NuCotn 35	.
SG 248	.	SG 248	.	SG 248	.
DPL 5415 RR	.	DPL 5415 RR	.	DPL 5415 RR	.

PAYMASTER PM 1560 BG	.
STV BXN 47	.
DPL 458 BG/RR	.
PAYMASTER PM 1220 RR	.
LSD	0.27

PAYMASTER PM 1560 BG	.
STV BXN 47	.
DPL 458 BG/RR	.
PAYMASTER PM 1220 RR	.
LSD	11

PAYMASTER PM 1560 BG	.
STV BXN 47	.
DPL 458 BG/RR	.
PAYMASTER PM 1220 RR	.
LSD	5.02

AREALOMETER - w (MG/INCH)	
SG 747	5.17
NU 33 B	4.64
ALL TEX ATLAS	4.28
ACALA MAXXA	3.95
FIBERMAX 832	.
FIBERMAX 989	.
SUREGROW 501	.
DPL 655 BG/RR	.
DPL NuCotn 35	.
SG 248	.
DPL 5415 RR	.
PAYMASTER PM 1560 BG	.
STV BXN 47	.
DPL 458 BG/RR	.
PAYMASTER PM 1220 RR	.
LSD	0.49

AREALOMETER - t (MICRONS)	
NU 33 B	3.3
SG 747	3.1
ALL TEX ATLAS	2.9
ACALA MAXXA	2.7
FIBERMAX 832	.
FIBERMAX 989	.
SUREGROW 501	.
DPL 655 BG/RR	.
DPL NuCotn 35	.
SG 248	.
DPL 5415 RR	.
PAYMASTER PM 1560 BG	.
STV BXN 47	.
DPL 458 BG/RR	.
PAYMASTER PM 1220 RR	.
LSD	0.4

SEED YIELD (LB/ACRE)	
DPL 655 BG/RR	1147
DPL NuCotn 35	1110
NU 33 B	1095
PAYMASTER PM 1560 BG	1053
DPL 5415 RR	1030
FIBERMAX 989	939
SG 248	932
FIBERMAX 832	911
SG 747	870
PAYMASTER PM 1220 RR	785
STV BXN 47	776
DPL 458 BG/RR	749
SUREGROW 501	729
ALL TEX ATLAS	694
ACALA MAXXA	658
LSD	235

OIL (PERCENT)	
ALL TEX ATLAS	22.47
DPL NuCotn 35	22.09
DPL 655 BG/RR	21.87
NU 33 B	21.70
DPL 458 BG/RR	21.57
ACALA MAXXA	21.31
DPL 5415 RR	20.72
FIBERMAX 989	20.65
FIBERMAX 832	20.59

NITROGEN (PERCENT)	
ACALA MAXXA	4.22
PAYMASTER PM 1560 BG	4.15
FIBERMAX 832	4.10
STV BXN 47	4.07
PAYMASTER PM 1220 RR	4.05
NU 33 B	3.92
DPL 5415 RR	3.90
DPL NuCotn 35	3.90
ALL TEX ATLAS	3.88

FREE GOSSYPOL (PERCENT)	
STV BXN 47	0.70
DPL NuCotn 35	0.69
SUREGROW 501	0.67
DPL 655 BG/RR	0.67
DPL 5415 RR	0.66
NU 33 B	0.65
PAYMASTER PM 1220 RR	0.63
DPL 458 BG/RR	0.63
SG 248	0.58

PAYMASTER PM 1560 BG	20.26	SG 747	3.87	PAYMASTER PM 1560 BG	0.57
SG 248	20.22	DPL 655 BG/RR	3.85	ACALA MAXXA	0.55
STV BXN 47	20.09	SG 248	3.85	FIBERMAX 989	0.55
SG 747	19.87	FIBERMAX 989	3.82	ALL TEX ATLAS	0.52
PAYMASTER PM 1220 RR	19.72	DPL 458 BG/RR	3.81	FIBERMAX 832	0.48
SUREGROW 501	19.52	SUREGROW 501	3.80	SG 747	0.43
LSD	2.04	LSD	0.31	LSD	0.15

VARIETIES COMBINING LOCATIONS EASTERN REGION

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 (%)
AUBURN, AL		895	4.13	39.8	9.1	136	1.05	0.54	232	7.5
BELLE MINA, AL		471	3.77	38.7	9.0	132	1.05	0.52	214	7.7
FLORENCE, SC		438	4.23	42.1	9.9	133	1.05	0.54	223	7.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	SEED OIL (%)
AUBURN, AL		4.84	1.04	82.4	34.2	10.2	73.0	9.2	5.07	1355	20.21
BELLE MINA, AL		4.15	1.05	81.8	30.1	9.6	72.0	9.4	4.11	651	19.42
FLORENCE, SC		5.16	1.02	82.6	33.2	10.0	65.3	8.7	5.38	689	22.90

			AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	NITROGEN	FREE GOSSYPOL	A	D	M	p	w	t

CODE	NAME	(%)	(%)	---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
AUBURN, AL		3.93	0.62	419	20.3	1.55	91	46.39	4.31	3.1
BELLE MINA, AL		3.75	0.58	495	39.2	1.93	77	49.05	3.89	2.5
FLORENCE, SC		4.16	0.59	367	16.4	1.47	94	50.26	5.33	3.5

VARIETIES BY LOCATIONS

AUBURN, AL

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 (%)
1153	DPL 655 BG/RR	1021	4.00	38.6	9.0	142	1.09	0.55	239	7.7
1104	SG 747	1006	4.50	41.3	9.4	118	1.07	0.55	200	8.9
1099	DPL NuCotn 35	994	4.00	39.6	9.0	135	1.03	0.53	228	6.9
1080	SG 248	985	4.00	41.9	8.0	136	1.09	0.54	233	7.5
1009	NU 33 B	979	4.00	38.4	8.8	130	1.03	0.53	215	7.8
1097	PAYMASTER PM 1560 BG	972	4.50	41.3	9.5	128	1.01	0.52	222	7.3
1106	STV BXN 47	952	3.50	41.1	9.0	128	1.01	0.52	193	7.7
1102	DPL 5415 RR	931	4.00	39.4	8.7	133	1.04	0.53	236	8.2
1117	FIBERMAX 832	907	4.50	41.0	9.7	157	1.11	0.57	267	6.7
1103	FIBERMAX 989	904	4.00	40.7	8.9	142	1.04	0.55	252	6.8
915	SUREGROW 501	901	4.00	41.0	8.8	146	1.06	0.54	254	7.6
1096	PAYMASTER PM 1220 RR	868	5.00	40.1	9.8	124	1.01	0.54	228	7.2
1152	DPL 458 BG/RR	828	4.00	39.9	8.3	126	1.05	0.53	233	7.4
1019	ALL TEX ATLAS	684	4.00	35.9	9.7	137	1.01	0.52	247	7.3
773	ACALA MAXXA	499	4.00	36.4	9.9	157	1.08	0.56	240	7.2
.	LSD	117	0.78	.	0.6	7	0.02	0.03	23	0.8

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)

1153	DPL 655 BG/RR	4.65	1.10	82.1	35.0	10.0	73.5	8.9	4.85	1704
1104	SG 747	5.15	1.05	83.3	29.5	10.5	72.5	10.0	5.35	1382
1099	DPL NuCotn 35	5.00	1.00	82.2	36.0	10.0	69.0	8.7	5.30	1560
1080	SG 248	5.35	1.10	82.2	33.5	10.0	74.5	9.3	5.55	1384
1009	NU 33 B	4.85	1.05	82.5	31.0	10.0	73.5	9.4	5.15	1711
1097	PAYMASTER PM 1560 BG	5.10	1.00	82.1	32.5	10.5	74.0	9.2	5.60	1468
1106	STV BXN 47	4.95	1.05	81.9	31.0	9.8	71.0	9.9	5.05	1307
1102	DPL 5415 RR	4.95	1.00	82.8	35.0	10.5	74.0	9.1	5.25	1447
1117	FIBERMAX 832	4.65	1.10	83.6	37.5	10.0	73.5	8.6	4.90	1358
1103	FIBERMAX 989	4.90	1.00	82.0	36.5	10.0	73.5	9.3	5.15	1308
915	SUREGROW 501	4.90	1.00	83.0	35.0	11.0	69.0	9.2	5.10	1156
1096	PAYMASTER PM 1220 RR	4.85	1.00	82.2	32.5	10.0	74.0	9.5	4.95	1273
1152	DPL 458 BG/RR	5.10	1.00	82.1	32.5	10.0	73.5	9.2	5.45	1209
1019	ALL TEX ATLAS	4.35	1.00	82.2	36.5	10.5	74.0	8.5	4.45	1174
773	ACALA MAXXA	3.85	1.10	82.3	38.5	10.0	75.0	9.0	4.00	883
.	LSD	0.39	0.07	1.2	2.6	0.8	2.6	0.6	0.42	197

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1153	DPL 655 BG/RR	20.94	3.82	0.73	.	.	.	.	.	.	.
1104	SG 747	16.97	3.60	0.39	384	19.5	1.54	92	50.34	5.07	3.3
1099	DPL NuCotn 35	22.55	4.01	0.87	.	.	.	.	.	.	.
1080	SG 248	20.36	3.85	0.62	.	.	.	.	.	.	.
1009	NU 33 B	20.47	3.78	0.68	392	10.3	1.31	100	42.01	4.14	3.5
1097	PAYMASTER PM 1560 BG	20.11	4.38	0.47	.	.	.	.	.	.	.
1106	STV BXN 47	20.77	4.20	0.77	.	.	.	.	.	.	.
1102	DPL 5415 RR	20.33	3.85	0.73	.	.	.	.	.	.	.
1117	FIBERMAX 832	19.88	4.12	0.50	.	.	.	.	.	.	.
1103	FIBERMAX 989	19.37	4.08	0.60	.	.	.	.	.	.	.
915	SUREGROW 501	20.24	3.68	0.74	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	19.79	4.12	0.56	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	19.48	3.84	0.71	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	21.19	3.79	0.47	427	19.0	1.53	92	45.05	4.09	3.0
773	ACALA MAXXA	20.70	3.85	0.47	473	32.5	1.81	81	48.15	3.94	2.6
.	LSD	1.19	0.26	0.11	49.4	4.7	0.11	4	2.88	0.75	0.4

VARIETIES BY LOCATIONS
FLORENCE, SC

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 (%)
1099	DPL NuCotn 35	599	4.00	41.1	9.3	134	1.06	0.54	222	6.3
1102	DPL 5415 RR	548	4.00	41.8	8.4	128	1.05	0.54	218	7.7
1153	DPL 655 BG/RR	534	3.50	40.4	9.0	140	1.04	0.54	222	6.4
915	SUREGROW 501	474	4.00	42.9	8.8	145	1.02	0.54	240	8.3
1104	SG 747	474	4.50	43.8	9.3	116	1.05	0.55	182	8.3
1080	SG 248	459	4.00	42.1	13.5	132	1.08	0.55	222	6.7
1097	PAYMASTER PM 1560 BG	420	4.00	43.2	9.7	125	1.02	0.53	215	6.9
1152	DPL 458 BG/RR	418	4.00	41.5	8.1	126	1.04	0.55	217	6.3
1117	FIBERMAX 832	416	5.00	41.9	10.1	145	1.11	0.56	239	6.3
1009	NU 33 B	416	4.00	40.5	8.9	121	1.04	0.53	208	7.3
1106	STV BXN 47	409	4.00	43.8	9.4	122	1.04	0.53	205	7.2
1103	FIBERMAX 989	394	4.00	42.4	12.5	143	1.04	0.56	239	6.8
1096	PAYMASTER PM 1220 RR	389	5.00	43.3	10.3	124	1.03	0.54	208	6.8
1019	ALL TEX ATLAS	351	5.00	39.1	10.2	139	1.02	0.55	236	8.6
773	ACALA MAXXA	270	4.50	44.0	11.1	153	1.09	0.58	270	7.1
.	LSD	114	0.63	0.7	1.0	7	0.02	0.03	19	1.5

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1099	DPL NuCotn 35	5.30	1.05	82.3	34.0	10.0	66.5	8.3	5.40	949
1102	DPL 5415 RR	5.40	1.00	82.8	32.0	10.0	67.5	8.2	5.55	952

1153	DPL 655 BG/RR	5.00	1.00	82.2	35.0	10.0	67.0	8.6	5.20	908
915	SUREGROW 501	5.05	1.00	83.3	35.5	11.0	65.5	8.9	5.20	637
1104	SG 747	5.25	1.00	82.9	28.0	10.0	62.5	9.3	5.70	752
1080	SG 248	5.35	1.10	82.6	34.0	10.0	67.0	8.5	5.55	684
1097	PAYMASTER PM 1560 BG	5.20	1.00	82.0	31.0	10.0	65.5	8.5	5.55	639
1152	DPL 458 BG/RR	5.40	1.00	82.1	33.5	10.0	66.5	9.0	5.60	659
1117	FIBERMAX 832	4.95	1.10	83.7	35.5	10.0	68.0	8.7	5.30	651
1009	NU 33 B	5.20	1.00	82.3	32.5	10.0	66.0	8.7	5.45	738
1106	STV BXN 47	5.25	1.00	82.6	29.5	9.5	65.0	8.9	5.60	667
1103	FIBERMAX 989	5.00	1.00	82.1	34.5	9.5	63.5	8.6	5.20	605
1096	PAYMASTER PM 1220 RR	5.35	1.00	82.9	31.5	9.5	65.0	9.0	5.55	569
1019	ALL TEX ATLAS	5.20	1.00	82.2	34.0	10.5	63.0	8.6	5.25	531
773	ACALA MAXXA	4.45	1.10	83.4	38.0	10.0	61.5	8.7	4.55	402
.	LSD	0.30	0.04	1.4	2.2	0.8	4.3	0.6	0.19	218

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1099	DPL NuCotn 35	24.11	3.81	0.60	.	.	.	.	.	.	.
1102	DPL 5415 RR	22.92	4.07	0.60	.	.	.	.	.	.	.
1153	DPL 655 BG/RR	24.32	3.94	0.62	.	.	.	.	.	.	.
915	SUREGROW 501	21.09	3.97	0.51	.	.	.	.	.	.	.
1104	SG 747	21.13	4.29	0.52	354	21.3	1.58	90	56.09	6.14	3.6
1080	SG 248	23.01	3.95	0.59	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	22.63	4.31	0.65	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	23.35	4.03	0.53	.	.	.	.	.	.	.
1117	FIBERMAX 832	23.20	4.43	0.55	.	.	.	.	.	.	.
1009	NU 33 B	23.02	4.18	0.65	358	15.3	1.44	95	50.55	5.47	3.6
1106	STV BXN 47	21.99	4.22	0.55	.	.	.	.	.	.	.
1103	FIBERMAX 989	23.98	3.96	0.51	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	21.62	4.32	0.68	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	24.53	4.07	0.59	373	14.5	1.43	96	47.86	4.96	3.5
773	ACALA MAXXA	22.61	4.81	0.69	385	14.5	1.42	96	46.54	4.74	3.4
.	LSD	1.34	0.23	0.30	86.2	6.7	0.16	6	4.75	1.54	0.9

VARIETIES BY LOCATIONS
BELLE MINA, AL

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 (%)
1097	PAYMASTER PM 1560 BG	693	4.00	39.8	9.6	125	1.02	0.51	208	9.0
1099	DPL NuCotn 35	570	4.00	37.0	8.9	135	1.07	0.52	221	6.9
1103	FIBERMAX 989	549	4.00	38.4	9.1	150	1.11	0.54	247	6.9
1096	PAYMASTER PM 1220 RR	511	4.00	39.2	9.7	120	1.02	0.50	196	7.4
1009	NU 33 B	511	4.00	37.6	9.0	127	1.05	0.51	213	7.9
1117	FIBERMAX 832	507	4.00	39.3	9.9	151	1.11	0.56	222	6.7
1080	SG 248	504	3.50	40.6	8.4	132	1.06	0.53	211	6.6
1153	DPL 655 BG/RR	503	4.00	36.1	8.9	136	1.03	0.52	210	7.7
1104	SG 747	461	4.00	38.8	8.6	113	1.01	0.50	178	8.8
773	ACALA MAXXA	445	4.00	39.2	9.9	153	1.10	0.55	251	7.3
915	SUREGROW 501	410	3.50	41.0	8.5	139	1.05	0.52	245	8.3
1102	DPL 5415 RR	394	3.50	39.5	7.5	127	1.03	0.52	223	8.4
1152	DPL 458 BG/RR	358	3.00	39.8	7.6	117	1.01	0.49	198	7.3
1106	STV BXN 47	338	3.00	39.8	8.8	123	1.10	0.53	169	7.7
1019	ALL TEX ATLAS	313	4.00	34.9	10.0	137	1.02	0.51	225	8.2
.	LSD	217	0.63	0.0	0.6	10	0.03	0.03	25	1.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1097	PAYMASTER PM 1560 BG	4.25	1.00	82.1	30.0	10.0	73.5	9.4	4.20	1051
1099	DPL NuCotn 35	3.90	1.10	81.5	30.5	9.3	72.5	8.9	3.85	822
1103	FIBERMAX 989	3.45	1.10	82.0	31.5	9.2	74.0	8.5	3.40	905

1096	PAYMASTER PM 1220 RR	4.70	1.00	82.0	28.0	9.7	70.0	9.9	4.75	512
1009	NU 33 B	4.10	1.10	81.0	28.5	9.5	73.5	9.3	4.10	835
1117	FIBERMAX 832	4.30	1.10	83.0	30.5	9.1	67.5	8.1	4.30	723
1080	SG 248	4.45	1.05	81.8	29.5	9.3	71.5	9.3	4.45	728
1153	DPL 655 BG/RR	3.95	1.05	81.5	31.5	9.6	74.0	9.6	3.95	830
1104	SG 747	4.30	1.05	80.9	26.0	9.8	70.0	10.0	4.20	475
773	ACALA MAXXA	3.35	1.10	83.1	36.5	9.8	74.0	9.5	3.25	690
915	SUREGROW 501	4.45	1.05	81.8	32.5	10.5	68.0	9.8	4.50	395
1102	DPL 5415 RR	4.95	1.00	82.0	31.0	10.0	74.5	9.7	4.85	692
1152	DPL 458 BG/RR	4.65	1.00	81.4	27.0	9.5	74.0	9.7	4.85	379
1106	STV BXN 47	3.95	1.10	82.2	26.0	8.8	71.5	9.8	3.75	354
1019	ALL TEX ATLAS	3.45	1.00	81.4	32.5	9.7	72.0	9.4	3.30	377
.	LSD	0.45	0.08	1.8	3.3	0.7	4.2	0.8	0.45	675

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1097	PAYMASTER PM 1560 BG	18.03	3.77	0.60	.	.	.	.	.	.	.
1099	DPL NuCotn 35	19.61	3.88	0.59	.	.	.	.	.	.	.
1103	FIBERMAX 989	18.61	3.42	0.54	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	17.77	3.70	0.64	.	.	.	.	.	.	.
1009	NU 33 B	21.61	3.82	0.61	431	24.3	1.65	88	47.96	4.31	2.9
1117	FIBERMAX 832	18.71	3.76	0.39	.	.	.	.	.	.	.
1080	SG 248	17.30	3.74	0.55	.	.	.	.	.	.	.
1153	DPL 655 BG/RR	20.36	3.81	0.67	.	.	.	.	.	.	.
1104	SG 747	21.51	3.71	0.40	466	38.0	1.91	78	51.54	4.31	2.6
773	ACALA MAXXA	20.61	4.00	0.48	575	51.3	2.14	69	46.97	3.18	2.1
915	SUREGROW 501	17.23	3.76	0.77	.	.	.	.	.	.	.
1102	DPL 5415 RR	18.91	3.79	0.65	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	21.89	3.58	0.64	.	.	.	.	.	.	.
1106	STV BXN 47	17.51	3.80	0.78	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	21.70	3.79	0.50	508	43.3	2.01	74	49.74	3.79	2.3
.	LSD	0.81	0.21	0.09	119	19.2	0.35	14	4.07	1.17	0.7

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 DELTA REGIONAL COTTON VARIETY TEST

DELTA REGION
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)	FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1137	PHYTOGEN PSC 355	1234	4.67	39.8	10.7	124	1.11	0.56	205	8.3
1097	PAYMASTER PM 1560 BG	1219	4.67	38.6	9.8	121	1.10	0.57	203	7.9
1009	NU 33 B	1191	4.50	37.3	9.3	119	1.11	0.56	200	7.8
1106	STV BXN 47	1160	4.17	40.6	9.2	120	1.11	0.55	187	7.5
971	STV 474	1158	4.33	40.3	9.9	121	1.11	0.56	189	7.5
915	SUREGROW 501	1058	4.50	40.0	9.6	135	1.13	0.57	223	7.7
1104	SG 747	1058	4.33	40.2	9.3	113	1.12	0.57	184	9.0
1095	DPL 5111	1001	4.50	37.1	9.3	132	1.11	0.57	211	7.3
1019	ALL TEX ATLAS	830	5.00	35.3	11.1	130	1.12	0.56	218	7.7

773	ACALA MAXXA	512	4.83	37.4	11.1	152	1.14	0.58	254	6.9
.	LSD	136	0.68	1.3	1.3	5	0.02	0.02	12	0.5

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1137	PHYTOGEN PSC 355	4.92	1.10	84.3	30.0	10.3	72.5	8.3	4.85	1855	20.96
1097	PAYMASTER PM 1560 BG	4.90	1.10	84.0	29.8	9.9	70.8	7.5	4.95	1865	21.37
1009	NU 33 B	4.68	1.10	83.0	27.0	9.6	77.3	7.8	4.68	1912	20.30
1106	STV BXN 47	4.70	1.10	83.7	27.3	9.5	74.5	8.4	4.73	1678	19.44
971	STV 474	4.97	1.08	84.1	27.5	9.7	74.3	8.8	5.05	1731	19.04
915	SUREGROW 501	4.83	1.13	84.1	32.0	10.0	73.5	8.3	5.03	1465	19.33
1104	SG 747	5.03	1.10	84.8	26.8	10.0	74.3	8.5	5.25	1452	19.01
1095	DPL 5111	4.93	1.08	83.9	31.5	9.8	71.8	8.4	5.23	1653	19.70
1019	ALL TEX ATLAS	4.52	1.13	84.0	29.8	9.9	74.3	8.0	4.70	1472	21.46
773	ACALA MAXXA	4.02	1.15	84.8	34.3	9.6	76.3	7.8	4.08	827	19.59
.	LSD	0.32	0.08	1.1	1.5	0.5	5.1	1.2	0.51	248	1.51

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1137	PHYTOGEN PSC 355	3.36	0.75	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.24	0.73	.	.	.	.	.	.	.
1009	NU 33 B	3.16	0.79	416	23.9	1.63	88	49.07	4.57	3.0
1106	STV BXN 47	3.23	1.09	.	.	.	.	.	.	.
971	STV 474	3.31	0.99	.	.	.	.	.	.	.
915	SUREGROW 501	3.13	0.94	.	.	.	.	.	.	.
1104	SG 747	3.17	0.69	392	17.3	1.49	94	47.62	4.70	3.3
1095	DPL 5111	3.01	0.82	375	17.6	1.49	93	49.98	5.15	3.4
1019	ALL TEX ATLAS	3.26	0.83	425	23.0	1.61	89	47.66	4.34	2.9
773	ACALA MAXXA	3.60	0.55	471	29.1	1.74	84	46.36	3.81	2.6
.	LSD	0.19	0.11	27.8	9.2	0.19	7	4.84	0.50	0.3

REGION=DELTA

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
ALL TEX ATLAS	5.00	STV BXN 47	40.6	ALL TEX ATLAS	11.1
ACALA MAXXA	4.83	STV 474	40.3	ACALA MAXXA	11.1
PAYMASTER PM 1560 BG	4.67	SG 747	40.2	PHYTOGEN PSC 355	10.7
PHYTOGEN PSC 355	4.67	SUREGROW 501	40.0	STV 474	9.9
SUREGROW 501	4.50	PHYTOGEN PSC 355	39.8	PAYMASTER PM 1560 BG	9.8
NU 33 B	4.50	PAYMASTER PM 1560 BG	38.6	SUREGROW 501	9.6
DPL 5111	4.50	ACALA MAXXA	37.4	DPL 5111	9.3
STV 474	4.33	NU 33 B	37.3	SG 747	9.3
SG 747	4.33	DPL 5111	37.1	NU 33 B	9.3
STV BXN 47	4.17	ALL TEX ATLAS	35.3	STV BXN 47	9.2
LSD	0.68	LSD	1.3	LSD	1.3

2.5% S.L. (INCHES)		UR (PERCENT)		STRENGTH (G/TEX)	
ACALA MAXXA	1.15	ACALA MAXXA	84.8	ACALA MAXXA	34.3
ALL TEX ATLAS	1.13	SG 747	84.8	SUREGROW 501	32.0
SUREGROW 501	1.13	PHYTOGEN PSC 355	84.3	DPL 5111	31.5
PHYTOGEN PSC 355	1.10	SUREGROW 501	84.1	PHYTOGEN PSC 355	30.0
PAYMASTER PM 1560 BG	1.10	STV 474	84.1	ALL TEX ATLAS	29.8
SG 747	1.10	ALL TEX ATLAS	84.0	PAYMASTER PM 1560 BG	29.8
NU 33 B	1.10	PAYMASTER PM 1560 BG	84.0	STV 474	27.5
STV BXN 47	1.10	DPL 5111	83.9	STV BXN 47	27.3
STV 474	1.08	STV BXN 47	83.7	NU 33 B	27.0
DPL 5111	1.08	NU 33 B	83.0	SG 747	26.8
LSD	0.08	LSD	1.1	LSD	1.5

E	MICRONAIRE (SL-HVI)	COLORIMETER - Rd

PHYTOGEN PSC 355	10.3
SUREGROW 501	10.0
SG 747	10.0
ALL TEX ATLAS	9.9
PAYMASTER PM 1560 BG	9.9
DPL 5111	9.8
STV 474	9.7
ACALA MAXXA	9.6
NU 33 B	9.6
STV BXN 47	9.5
LSD	0.5

SG 747	5.25
DPL 5111	5.23
STV 474	5.05
SUREGROW 501	5.03
PAYMASTER PM 1560 BG	4.95
PHYTOGEN PSC 355	4.85
STV BXN 47	4.73
ALL TEX ATLAS	4.70
NU 33 B	4.68
ACALA MAXXA	4.08
LSD	0.51

NU 33 B	77.3
ACALA MAXXA	76.3
STV BXN 47	74.5
SG 747	74.3
STV 474	74.3
ALL TEX ATLAS	74.3
SUREGROW 501	73.5
PHYTOGEN PSC 355	72.5
DPL 5111	71.8
PAYMASTER PM 1560 BG	70.8
LSD	5.1

COLORIMETER - b	
STV 474	8.8
SG 747	8.5
STV BXN 47	8.4
DPL 5111	8.4
PHYTOGEN PSC 355	8.3
SUREGROW 501	8.3
ALL TEX ATLAS	8.0
NU 33 B	7.8
ACALA MAXXA	7.8
PAYMASTER PM 1560 BG	7.5
LSD	1.2

MICRONAIRE	
SG 747	5.03
STV 474	4.97
DPL 5111	4.93
PHYTOGEN PSC 355	4.92
PAYMASTER PM 1560 BG	4.90
SUREGROW 501	4.83
STV BXN 47	4.70
NU 33 B	4.68
ALL TEX ATLAS	4.52
ACALA MAXXA	4.02
LSD	0.32

STELOMETER - E1	
SG 747	9.0
PHYTOGEN PSC 355	8.3
PAYMASTER PM 1560 BG	7.9
NU 33 B	7.8
ALL TEX ATLAS	7.7
SUREGROW 501	7.7
STV 474	7.5
STV BXN 47	7.5
DPL 5111	7.3
ACALA MAXXA	6.9
LSD	0.5

STELOMETER - T1	
ACALA MAXXA	254
SUREGROW 501	223
ALL TEX ATLAS	218
DPL 5111	211
PHYTOGEN PSC 355	205
PAYMASTER PM 1560 BG	203
NU 33 B	200
STV 474	189

FIBROGRAPH--50% S.L.	
ACALA MAXXA	0.58
DPL 5111	0.57
SUREGROW 501	0.57
SG 747	0.57
PAYMASTER PM 1560 BG	0.57
PHYTOGEN PSC 355	0.56
ALL TEX ATLAS	0.56
STV 474	0.56

FIBROGRAPH--2.5% S.L.	
ACALA MAXXA	1.14
SUREGROW 501	1.13
SG 747	1.12
ALL TEX ATLAS	1.12
DPL 5111	1.11
NU 33 B	1.11
PHYTOGEN PSC 355	1.11
STV 474	1.11

STV BXN 47	187
SG 747	184
LSD	12

NU 33 B	0.56
STV BXN 47	0.55
LSD	0.02

STV BXN 47	1.11
PAYMASTER PM 1560 BG	1.10
LSD	0.02

YARN TENACITY

ACALA MAXXA	152
SUREGROW 501	135
DPL 5111	132
ALL TEX ATLAS	130
PHYTOGEN PSC 355	124
PAYMASTER PM 1560 BG	121
STV 474	121
STV BXN 47	120
NU 33 B	119
SG 747	113
LSD	5

AREALOMETER - A (mm2/mm3)

ACALA MAXXA	471
ALL TEX ATLAS	425
NU 33 B	416
SG 747	392
DPL 5111	375
SUREGROW 501	.
PHYTOGEN PSC 355	.
STV 474	.
PAYMASTER PM 1560 BG	.
STV BXN 47	.
LSD	27.8

AREALOMETER - D (mm2/mm3)

ACALA MAXXA	29.1
NU 33 B	23.9
ALL TEX ATLAS	23.0
DPL 5111	17.6
SG 747	17.3
SUREGROW 501	.
PHYTOGEN PSC 355	.
STV 474	.
PAYMASTER PM 1560 BG	.
STV BXN 47	.
LSD	9.2

AREALOMETER - I

ACALA MAXXA	1.74
NU 33 B	1.63
ALL TEX ATLAS	1.61
DPL 5111	1.49
SG 747	1.49
SUREGROW 501	.
PHYTOGEN PSC 355	.
STV 474	.
PAYMASTER PM 1560 BG	.
STV BXN 47	.
LSD	0.19

AREALOMETER - M (PERCENT)

SG 747	94
DPL 5111	93
ALL TEX ATLAS	89
NU 33 B	88
ACALA MAXXA	84
SUREGROW 501	.
PHYTOGEN PSC 355	.
STV 474	.
PAYMASTER PM 1560 BG	.
STV BXN 47	.
LSD	7

AREALOMETER - p (Microns)

DPL 5111	49.98
NU 33 B	49.07
ALL TEX ATLAS	47.66
SG 747	47.62
ACALA MAXXA	46.36
SUREGROW 501	.
PHYTOGEN PSC 355	.
STV 474	.
PAYMASTER PM 1560 BG	.
STV BXN 47	.
LSD	4.84

AREALOMETER - w (MG/INCH)

AREALOMETER - t (MICRONS)

SEED YIELD (LB/ACRE)

DPL 5111	5.15	DPL 5111	3.4	NU 33 B	1912
SG 747	4.70	SG 747	3.3	PAYMASTER PM 1560 BG	1865
NU 33 B	4.57	NU 33 B	3.0	PHYTOGEN PSC 355	1855
ALL TEX ATLAS	4.34	ALL TEX ATLAS	2.9	STV 474	1731
ACALA MAXXA	3.81	ACALA MAXXA	2.6	STV BXN 47	1678
SUREGROW 501	.	SUREGROW 501	.	DPL 5111	1653
PHYTOGEN PSC 355	.	PHYTOGEN PSC 355	.	ALL TEX ATLAS	1472
STV 474	.	STV 474	.	SUREGROW 501	1465
PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.	SG 747	1452
STV BXN 47	.	STV BXN 47	.	ACALA MAXXA	827
LSD	0.50	LSD	0.3	LSD	248

OIL (PERCENT)		NITROGEN (PERCENT)		FREE GOSSYPOL (PERCENT)	
ALL TEX ATLAS	21.46	ACALA MAXXA	3.60	STV BXN 47	1.09
PAYMASTER PM 1560 BG	21.37	PHYTOGEN PSC 355	3.36	STV 474	0.99
PHYTOGEN PSC 355	20.96	STV 474	3.31	SUREGROW 501	0.94
NU 33 B	20.30	ALL TEX ATLAS	3.26	ALL TEX ATLAS	0.83
DPL 5111	19.70	PAYMASTER PM 1560 BG	3.24	DPL 5111	0.82
ACALA MAXXA	19.59	STV BXN 47	3.23	NU 33 B	0.79
STV BXN 47	19.44	SG 747	3.17	PHYTOGEN PSC 355	0.75
SUREGROW 501	19.33	NU 33 B	3.16	PAYMASTER PM 1560 BG	0.73
STV 474	19.04	SUREGROW 501	3.13	SG 747	0.69
SG 747	19.01	DPL 5111	3.01	ACALA MAXXA	0.55
LSD	1.51	LSD	0.19	LSD	0.11

VARIETIES COMBINING LOCATIONS DELTA REGION

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

CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
SAINT JOSEPH, LA		1316	4.15	39.4	8.8	124	1.09	0.55	208	7.6
STONEVILLE, MS		1113	4.50	39.1	10.1	126	1.11	0.57	208	7.9
CLARKEDALE, AR		698	5.00	37.6	10.8	130	1.15	0.58	206	7.7

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
SAINT JOSEPH, LA		5.19	1.08	83.0	29.5	9.9	74.3	7.6	5.09	1886	21.45
STONEVILLE, MS		4.54	.	.	.	.	.	.	.	1640	19.58
CLARKEDALE, AR		4.53	1.14	85.1	29.7	9.8	73.6	8.8	4.62	1247	19.04

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	M I	(%)	p (microns)	w (mg/in)	t (microns)
SAINT JOSEPH, LA		2.89	0.98	401	16.8	1.47	94	46.20	4.49	3.2
STONEVILLE, MS		3.42	0.68	432	25.1	1.66	87	48.29	4.35	2.9
CLARKEDALE, AR		3.43	0.80	425	26.2	1.68	86	49.59	4.54	2.9

VARIETIES BY LOCATIONS
SAINT JOSEPH, LA

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 (%)
1009	NU 33 B	1535	4.00	37.4	7.9	113	1.09	0.54	203	7.7
1106	STV BXN 47	1516	4.00	41.5	8.7	118	1.09	0.54	192	7.2

1097	PAYMASTER PM 1560 BG	1478	4.00	39.5	8.7	120	1.08	0.55	204	7.7
1137	PHYTOGEN PSC 355	1467	4.00	40.9	8.7	121	1.10	0.55	204	8.0
971	STV 474	1407	4.00	41.9	8.8	117	1.08	0.55	192	7.6
1104	SG 747	1362	4.00	41.1	8.4	109	1.09	0.54	182	8.7
1095	DPL 5111	1330	4.00	37.2	8.8	129	1.08	0.56	204	7.3
915	SUREGROW 501	1285	4.00	40.8	8.2	136	1.09	0.54	222	7.7
1019	ALL TEX ATLAS	1080	4.50	35.9	9.8	131	1.09	0.54	218	7.8
773	ACALA MAXXA	697	5.00	37.5	10.5	152	1.11	0.55	262	7.2
.	LSD	172	0.51	1.2	0.6	6	0.02	0.03	18	0.7

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1009	NU 33 B	5.25	1.10	82.2	26.5	9.7	77.0	7.0	5.00	2254
1106	STV BXN 47	5.20	1.10	82.9	27.5	9.8	74.5	7.5	5.15	2105
1097	PAYMASTER PM 1560 BG	5.30	1.10	83.5	29.5	9.9	75.5	7.8	5.15	2032
1137	PHYTOGEN PSC 355	5.45	1.05	83.5	29.5	10.0	72.5	8.0	5.30	1991
971	STV 474	5.45	1.05	83.4	28.5	10.0	75.0	7.9	5.40	1994
1104	SG 747	5.35	1.05	83.6	26.5	10.0	73.5	8.0	5.35	1873
1095	DPL 5111	5.30	1.05	82.6	31.0	9.9	71.5	7.8	5.30	2081
915	SUREGROW 501	5.40	1.10	82.9	32.0	10.0	72.5	7.8	5.30	1674
1019	ALL TEX ATLAS	4.90	1.05	82.3	30.0	9.9	74.5	7.1	4.85	1805
773	ACALA MAXXA	4.25	1.10	83.6	34.0	9.8	76.0	7.1	4.05	1049
.	LSD	0.38	0.11	1.7	1.5	0.3	2.8	0.8	0.40	331

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1009	NU 33 B	22.85	2.93	0.99	383	16.0	1.46	95	47.84	4.84	3.4
1106	STV BXN 47	21.30	2.92	1.35	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	22.39	2.91	0.89	.	.	.	.	.	.	.
1137	PHYTOGEN PSC 355	22.40	2.96	0.91	.	.	.	.	.	.	.

971	STV 474	20.66	2.89	1.20	.	.	.	.	.	.	.
1104	SG 747	20.37	2.79	0.90	379	11.8	1.36	99	44.80	4.57	3.5
1095	DPL 5111	21.64	2.72	0.96	373	13.3	1.39	97	46.76	4.85	3.6
915	SUREGROW 501	20.34	2.60	1.06	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	22.97	2.85	0.93	405	19.3	1.54	92	47.47	4.53	3.1
773	ACALA MAXXA	19.58	3.31	0.62	465	23.8	1.63	89	44.11	3.68	2.7
.	LSD	1.26	0.33	0.11	43.5	8.2	0.19	7	3.40	0.52	0.4

VARIETIES BY LOCATIONS
STONEVILLE, MS

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 (%)
1137	PHYTOGEN PSC 355	1412	4.50	40.6	9.9	123	1.09	0.57	211	8.4
971	STV 474	1200	4.00	41.0	10.2	121	1.10	0.57	196	7.2
1097	PAYMASTER PM 1560 BG	1200	5.00	38.9	10.0	117	1.10	0.58	195	8.0
1009	NU 33 B	1190	4.00	37.0	9.6	118	1.10	0.56	199	7.9
1104	SG 747	1183	4.00	41.3	9.5	114	1.11	0.58	188	9.6
915	SUREGROW 501	1171	4.50	40.3	9.6	133	1.13	0.59	218	7.8
1106	STV BXN 47	1135	4.00	40.6	9.7	120	1.10	0.55	182	7.7
1095	DPL 5111	1113	5.00	37.4	10.1	134	1.11	0.57	212	7.4
1019	ALL TEX ATLAS	880	5.00	35.2	11.3	131	1.09	0.56	230	7.9
773	ACALA MAXXA	644	5.00	38.3	11.6	147	1.13	0.58	248	6.9
.	LSD	99	0.37	1.1	0.3	3	0.02	0.02	5	0.7

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1137	PHYTOGEN PSC 355	4.90	.	.	.	.	.	.	.	2072

971	STV 474	4.90	.	.	.	.	.	.	1706
1097	PAYMASTER PM 1560 BG	4.75	.	.	.	.	.	.	1757
1009	NU 33 B	4.50	.	.	.	.	.	.	2039
1104	SG 747	4.85	.	.	.	.	.	.	1435
915	SUREGROW 501	4.50	.	.	.	.	.	.	1556
1106	STV BXN 47	4.50	.	.	.	.	.	.	1642
1095	DPL 5111	4.50	.	.	.	.	.	.	1792
1019	ALL TEX ATLAS	4.25	.	.	.	.	.	.	1437
773	ACALA MAXXA	3.70	.	.	.	.	.	.	965
.	LSD	0.31	.	.	.	.	.	.	219

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A --(mm2/mm3)--	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1137	PHYTOGEN PSC 355	20.75	3.57	0.66	.	.	.	.	.	.	.
971	STV 474	18.51	3.48	0.83	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	19.85	3.46	0.60	.	.	.	.	.	.	.
1009	NU 33 B	20.47	3.17	0.65	415	21.0	1.57	90	47.59	4.43	3.0
1104	SG 747	17.98	3.44	0.54	398	20.5	1.56	91	49.38	4.81	3.2
915	SUREGROW 501	19.25	3.33	0.83	.	.	.	.	.	.	.
1106	STV BXN 47	19.12	3.24	0.91	.	.	.	.	.	.	.
1095	DPL 5111	18.89	3.20	0.71	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	21.36	3.57	0.61	436	29.8	1.76	84	50.62	4.49	2.8
773	ACALA MAXXA	19.64	3.76	0.48	479	29.3	1.75	85	45.56	3.68	2.6
.	LSD	1.23	0.16	0.12	17.7	5.4	0.11	4	1.72	0.19	0.1

VARIETIES BY LOCATIONS
CLARKEDALE, AR

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 (%)
1097	PAYMASTER PM 1560 BG	979	5.00	37.3	10.8	127	1.11	0.57	210	8.1
971	STV 474	869	5.00	37.9	10.7	126	1.15	0.57	180	7.8
1009	NU 33 B	848	5.50	37.7	10.3	127	1.15	0.58	199	7.9
1106	STV BXN 47	830	4.50	39.7	9.3	123	1.13	0.57	187	7.7
1137	PHYTOGEN PSC 355	822	5.50	38.0	13.5	128	1.14	0.58	201	8.6
915	SUREGROW 501	718	5.00	38.9	11.1	137	1.16	0.59	228	7.5
1104	SG 747	629	5.00	38.2	10.1	117	1.17	0.59	182	8.7
1095	DPL 5111	558	4.50	36.6	9.2	135	1.15	0.59	217	7.2
1019	ALL TEX ATLAS	530	5.50	34.9	12.3	129	1.18	0.59	208	7.6
773	ACALA MAXXA	194	4.50	36.6	11.3	157	1.18	0.60	252	6.7
.	LSD	116	1.24	1.6	1.3	5	0.02	0.03	18	1.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1097	PAYMASTER PM 1560 BG	4.65	1.10	84.6	30.0	9.9	66.0	7.2	4.75	1805
971	STV 474	4.55	1.10	84.8	26.5	9.4	73.5	9.6	4.70	1492
1009	NU 33 B	4.30	1.10	83.7	27.5	9.5	77.5	8.7	4.35	1445
1106	STV BXN 47	4.40	1.10	84.5	27.0	9.2	74.5	9.3	4.30	1286
1137	PHYTOGEN PSC 355	4.40	1.15	85.2	30.5	10.5	72.5	8.7	4.40	1502
915	SUREGROW 501	4.60	1.15	85.4	32.0	10.0	74.5	8.8	4.75	1164
1104	SG 747	4.90	1.15	86.0	27.0	10.0	75.0	9.0	5.15	1047
1095	DPL 5111	5.00	1.10	85.2	32.0	9.8	72.0	9.0	5.15	1087
1019	ALL TEX ATLAS	4.40	1.20	85.8	29.5	10.0	74.0	8.9	4.55	1174
773	ACALA MAXXA	4.10	1.20	86.0	34.5	9.5	76.5	8.5	4.10	467
.	LSD	0.36	0.09	1.3	2.0	0.6	5.4	1.0	0.32	368

					AREALOMETER DATA				
VARIETY CODE	VARIETY NAME	OIL	NITROGEN	FREE GOSSYPOL	A	D	M	p	w	t

CODE	NAME	(%)	(%)	(%)	--(mm2/mm3)--	I	(%)	(microns)	(mg/in)	(microns)
1097	PAYMASTER PM 1560 BG	21.89	3.35	0.70	.	.	.	.	.	.
971	STV 474	17.97	3.58	0.94	.	.	.	.	.	.
1009	NU 33 B	17.58	3.40	0.74	450	34.8	1.85	80	51.77	4.45	2.7
1106	STV BXN 47	17.92	3.53	1.01	.	.	.	.	.	.	.
1137	PHYTOGEN PSC 355	19.74	3.55	0.69	.	.	.	.	.	.	.
915	SUREGROW 501	18.40	3.47	0.94	.	.	.	.	.	.	.
1104	SG 747	18.68	3.28	0.65	399	19.8	1.55	92	48.68	4.72	3.2
1095	DPL 5111	18.59	3.12	0.80	377	22.0	1.60	90	53.20	5.46	3.3
1019	ALL TEX ATLAS	20.06	3.36	0.96	434	20.0	1.55	92	44.89	4.00	2.9
773	ACALA MAXXA	19.55	3.73	0.56	469	34.3	1.85	80	49.41	4.07	2.6
.	LSD	2.06	0.16	0.11	30.0	8.8	0.18	7	4.00	0.49	0.2

RETURN TO 1999 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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1999 National Cotton Variety Test

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 CENTRAL REGIONAL COTTON VARIETY TEST

CENTRAL REGION
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 (%)
1104	SG 747	1278	5.03	39.2	9.1	118	1.12	0.56	183	8.8
1117	FIBERMAX 832	1265	6.65	37.4	10.4	149	1.19	0.58	222	6.5
953	SG 125	1132	5.11	38.9	9.3	120	1.12	0.56	181	8.4
971	STV 474	1117	5.03	40.5	9.2	124	1.11	0.56	183	8.0
1097	PAYMASTER PM 1560 BG	1087	5.06	39.2	9.6	121	1.11	0.56	184	7.9
1009	NU 33 B	1042	4.75	38.3	8.5	118	1.11	0.54	184	8.2
689	DELTAPINE 50	1030	5.29	35.3	9.7	117	1.12	0.55	179	8.6
1019	ALL TEX ATLAS	989	5.76	35.1	10.6	127	1.10	0.56	212	8.4
773	ACALA MAXXA	657	5.61	39.1	10.6	148	1.12	0.56	239	7.4

.	LSD	189	0.77	1.8	0.5	6	0.02	0.01	13	0.7	

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1104	SG 747	4.74	1.10	84.2	27.1	9.9	69.0	8.2	4.70	1923	18.25
1117	FIBERMAX 832	4.24	1.20	85.1	30.9	9.3	70.6	7.2	4.20	2059	20.58
953	SG 125	4.68	1.09	84.2	26.8	9.8	69.5	8.0	4.55	1720	18.67
971	STV 474	4.96	1.10	84.3	28.5	9.7	68.8	8.3	4.88	1548	18.97
1097	PAYMASTER PM 1560 BG	4.53	1.09	83.3	27.8	9.6	69.4	7.9	4.39	1753	19.51
1009	NU 33 B	4.71	1.10	82.9	26.8	9.8	69.5	7.9	4.71	1728	19.14
689	DELTAPINE 50	4.66	1.10	83.9	26.1	9.7	71.0	7.3	4.69	1864	20.12
1019	ALL TEX ATLAS	4.55	1.06	82.7	30.4	9.9	68.1	7.4	4.45	1910	20.45
773	ACALA MAXXA	3.89	1.10	84.1	33.6	9.5	68.1	7.6	3.86	1126	19.26
.	LSD	0.36	0.03	0.7	1.6	0.4	2.7	0.7	0.37	378	1.30

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	3.34	0.65	414	20.8	1.56	91	47.46	4.45	3.0
1117	FIBERMAX 832	3.27	0.49	.	.	.	.	.	.	.
953	SG 125	3.39	0.69	.	.	.	.	.	.	.
971	STV 474	3.38	0.90	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.28	0.81	.	.	.	.	.	.	.
1009	NU 33 B	3.31	0.70	426	23.8	1.62	89	47.53	4.35	3.0
689	DELTAPINE 50	3.23	0.84	461	36.0	1.88	79	51.17	4.30	2.6
1019	ALL TEX ATLAS	3.36	0.71	431	22.0	1.58	90	45.91	4.14	3.0
773	ACALA MAXXA	3.77	0.57	484	29.4	1.73	84	44.85	3.58	2.6
.	LSD	0.18	0.18	62.5	15.6	0.32	12	5.28	0.79	0.5

REGION=CENTRAL

BOLL SIZE, GRAM PER BOLL	
FIBERMAX 832	6.65
ALL TEX ATLAS	5.76
ACALA MAXXA	5.61
DELTAPINE 50	5.29
SG 125	5.11
PAYMASTER PM 1560 BG	5.06
STV 474	5.03
SG 747	5.03
NU 33 B	4.75
LSD	0.77

LINT PERCENT	
STV 474	40.5
SG 747	39.2
PAYMASTER PM 1560 BG	39.2
ACALA MAXXA	39.1
SG 125	38.9
NU 33 B	38.3
FIBERMAX 832	37.4
DELTAPINE 50	35.3
ALL TEX ATLAS	35.1
LSD	1.8

SEED INDEX	
ACALA MAXXA	10.6
ALL TEX ATLAS	10.6
FIBERMAX 832	10.4
DELTAPINE 50	9.7
PAYMASTER PM 1560 BG	9.6
SG 125	9.3
STV 474	9.2
SG 747	9.1
NU 33 B	8.5
LSD	0.5

2.5% S.L. (INCHES)	
FIBERMAX 832	1.20
ACALA MAXXA	1.10
DELTAPINE 50	1.10
STV 474	1.10
SG 747	1.10
NU 33 B	1.10
PAYMASTER PM 1560 BG	1.09
SG 125	1.09
ALL TEX ATLAS	1.06
LSD	0.03

UR (PERCENT)	
FIBERMAX 832	85.1
STV 474	84.3
SG 747	84.2
SG 125	84.2
ACALA MAXXA	84.1
DELTAPINE 50	83.9
PAYMASTER PM 1560 BG	83.3
NU 33 B	82.9
ALL TEX ATLAS	82.7
LSD	0.7

STRENGTH (G/TEX)	
ACALA MAXXA	33.6
FIBERMAX 832	30.9
ALL TEX ATLAS	30.4
STV 474	28.5
PAYMASTER PM 1560 BG	27.8
SG 747	27.1
SG 125	26.8
NU 33 B	26.8
DELTAPINE 50	26.1
LSD	1.6

E	
SG 747	9.9
ALL TEX ATLAS	9.9
NU 33 B	9.8
SG 125	9.8
STV 474	9.7

MICRONAIRE (SL-HVI)	
STV 474	4.88
NU 33 B	4.71
SG 747	4.70
DELTAPINE 50	4.69
SG 125	4.55

COLORIMETER - Rd	
DELTAPINE 50	71.0
FIBERMAX 832	70.6
NU 33 B	69.5
SG 125	69.5
PAYMASTER PM 1560 BG	69.4

DELTAPINE 50	9.7	ALL TEX ATLAS	4.45	SG 747	69.0
PAYMASTER PM 1560 BG	9.6	PAYMASTER PM 1560 BG	4.39	STV 474	68.8
ACALA MAXXA	9.5	FIBERMAX 832	4.20	ALL TEX ATLAS	68.1
FIBERMAX 832	9.3	ACALA MAXXA	3.86	ACALA MAXXA	68.1
LSD	0.4	LSD	0.37	LSD	2.7

COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
STV 474	8.3	STV 474	4.96	SG 747	8.8
SG 747	8.2	SG 747	4.74	DELTAPINE 50	8.6
SG 125	8.0	NU 33 B	4.71	SG 125	8.4
PAYMASTER PM 1560 BG	7.9	SG 125	4.68	ALL TEX ATLAS	8.4
NU 33 B	7.9	DELTAPINE 50	4.66	NU 33 B	8.2
ACALA MAXXA	7.6	ALL TEX ATLAS	4.55	STV 474	8.0
ALL TEX ATLAS	7.4	PAYMASTER PM 1560 BG	4.53	PAYMASTER PM 1560 BG	7.9
DELTAPINE 50	7.3	FIBERMAX 832	4.24	ACALA MAXXA	7.4
FIBERMAX 832	7.2	ACALA MAXXA	3.89	FIBERMAX 832	6.5
LSD	0.7	LSD	0.36	LSD	0.7

STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
ACALA MAXXA	239	FIBERMAX 832	0.58	FIBERMAX 832	1.19
FIBERMAX 832	222	SG 125	0.56	DELTAPINE 50	1.12
ALL TEX ATLAS	212	ACALA MAXXA	0.56	SG 125	1.12
NU 33 B	184	STV 474	0.56	SG 747	1.12
PAYMASTER PM 1560 BG	184	ALL TEX ATLAS	0.56	ACALA MAXXA	1.12
STV 474	183	PAYMASTER PM 1560 BG	0.56	PAYMASTER PM 1560 BG	1.11
SG 747	183	SG 747	0.56	STV 474	1.11
SG 125	181	DELTAPINE 50	0.55	NU 33 B	1.11
DELTAPINE 50	179	NU 33 B	0.54	ALL TEX ATLAS	1.10
LSD	13	LSD	0.01	LSD	0.02

YARN TENACITY		AREALOMETER - A (mm2/mm3)		AREALOMETER - D (mm2/mm3)	

FIBERMAX 832	149
ACALA MAXXA	148
ALL TEX ATLAS	127
STV 474	124
PAYMASTER PM 1560 BG	121
SG 125	120
SG 747	118
NU 33 B	118
DELTAPINE 50	117
LSD	6

ACALA MAXXA	484
DELTAPINE 50	461
ALL TEX ATLAS	431
NU 33 B	426
SG 747	414
FIBERMAX 832	.
STV 474	.
PAYMASTER PM 1560 BG	.
SG 125	.
LSD	62.5

DELTAPINE 50	36.0
ACALA MAXXA	29.4
NU 33 B	23.8
ALL TEX ATLAS	22.0
SG 747	20.8
FIBERMAX 832	.
STV 474	.
PAYMASTER PM 1560 BG	.
SG 125	.
LSD	15.6

AREALOMETER - I	
DELTAPINE 50	1.88
ACALA MAXXA	1.73
NU 33 B	1.62
ALL TEX ATLAS	1.58
SG 747	1.56
FIBERMAX 832	.
STV 474	.
PAYMASTER PM 1560 BG	.
SG 125	.
LSD	0.32

AREALOMETER - M (PERCENT)	
SG 747	91
ALL TEX ATLAS	90
NU 33 B	89
ACALA MAXXA	84
DELTAPINE 50	79
FIBERMAX 832	.
STV 474	.
PAYMASTER PM 1560 BG	.
SG 125	.
LSD	12

AREALOMETER - p (Microns)	
DELTAPINE 50	51.17
NU 33 B	47.53
SG 747	47.46
ALL TEX ATLAS	45.91
ACALA MAXXA	44.85
FIBERMAX 832	.
STV 474	.
PAYMASTER PM 1560 BG	.
SG 125	.
LSD	5.28

AREALOMETER - w (MG/INCH)	
SG 747	4.45
NU 33 B	4.35
DELTAPINE 50	4.30
ALL TEX ATLAS	4.14
ACALA MAXXA	3.58
FIBERMAX 832	.
STV 474	.
PAYMASTER PM 1560 BG	.
SG 125	.
LSD	0.79

AREALOMETER - t (MICRONS)	
SG 747	3.0
NU 33 B	3.0
ALL TEX ATLAS	3.0
DELTAPINE 50	2.6
ACALA MAXXA	2.6
FIBERMAX 832	.
STV 474	.
PAYMASTER PM 1560 BG	.
SG 125	.
LSD	0.5

SEED YIELD (LB/ACRE)	
FIBERMAX 832	2059
SG 747	1923
ALL TEX ATLAS	1910
DELTAPINE 50	1864
PAYMASTER PM 1560 BG	1753
NU 33 B	1728
SG 125	1720
STV 474	1548
ACALA MAXXA	1126
LSD	378

OIL (PERCENT)		NITROGEN (PERCENT)		FREE GOSSYPOL (PERCENT)	
FIBERMAX 832	20.58	ACALA MAXXA	3.77	STV 474	0.90
ALL TEX ATLAS	20.45	SG 125	3.39	DELTAPINE 50	0.84
DELTAPINE 50	20.12	STV 474	3.38	PAYMASTER PM 1560 BG	0.81
PAYMASTER PM 1560 BG	19.51	ALL TEX ATLAS	3.36	ALL TEX ATLAS	0.71
ACALA MAXXA	19.26	SG 747	3.34	NU 33 B	0.70
NU 33 B	19.14	NU 33 B	3.31	SG 125	0.69
STV 474	18.97	PAYMASTER PM 1560 BG	3.28	SG 747	0.65
SG 125	18.67	FIBERMAX 832	3.27	ACALA MAXXA	0.57
SG 747	18.25	DELTAPINE 50	3.23	FIBERMAX 832	0.49
LSD	1.30	LSD	0.18	LSD	0.18

VARIETIES COMBINING LOCATIONS — CENTRAL REGION

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 (%)
COLLEGE STATION, TX		1458	6.00	37.8	9.4	124	1.13	0.56	182	8.0
BEEVILLE, TX		1106	6.00	39.2	9.7	121	1.11	0.56	190	8.8
WESLACO, TX		852	5.41	37.9	10.3	125	1.14	0.57	196	7.4
BOSSIER CITY, LA		850	4.06	37.5	9.2	137	1.11	0.55	217	7.9

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
COLLEGE STATION, TX		4.41	1.11	83.8	27.4	9.5	68.7	6.9	4.36	2373	20.37

BEEVILLE, TX	4.68	1.09	83.4	27.9	10.0	66.7	8.2	4.71	1767	19.24
WESLACO, TX	4.94	1.11	84.5	29.3	9.7	69.7	8.0	4.89	1349	20.05
BOSSIER CITY, LA	4.17	1.11	83.7	29.9	9.5	72.2	7.9	4.00	1458	18.10

			AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
COLLEGE STATION, TX		3.22	0.76	450	24.1	1.63	88	45.37	3.91	2.8
BEEVILLE, TX		3.50	0.76	426	20.9	1.57	91	46.22	4.23	3.0
WESLACO, TX		3.45	0.71	399	14.8	1.43	96	45.04	4.40	3.3
BOSSIER CITY, LA		3.31	0.60	476	36.2	1.87	79	49.53	4.04	2.5

VARIETIES BY LOCATIONS
COLLEGE STATION, TX

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 (%)
1117	FIBERMAX 832	1725	7.50	37.2	10.2	147	1.20	0.58	202	6.7
971	STV 474	1701	5.00	41.3	8.9	124	1.12	0.57	173	7.7
1104	SG 747	1631	6.00	40.2	8.8	115	1.11	0.55	165	9.2
1097	PAYMASTER PM 1560 BG	1549	5.50	38.7	9.3	119	1.12	0.56	177	7.4
1009	NU 33 B	1508	5.00	38.0	7.9	117	1.12	0.55	170	7.5
953	SG 125	1478	5.50	38.0	9.1	117	1.13	0.57	170	9.0
1019	ALL TEX ATLAS	1415	7.00	33.8	10.8	123	1.11	0.58	199	8.5
689	DELTAPINE 50	1381	6.00	35.0	9.3	114	1.12	0.54	159	8.4
773	ACALA MAXXA	734	6.50	38.0	10.2	144	1.11	0.55	220	7.4
.	LSD	180	1.09	2.5	0.7	6	0.02	0.03	20	1.3

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1117	FIBERMAX 832	4.25	1.20	84.1	28.0	8.7	71.0	6.8	4.15	2731
971	STV 474	4.85	1.10	84.3	27.5	9.6	67.5	7.5	4.85	2384
1104	SG 747	4.65	1.10	84.4	26.0	10.0	69.0	7.8	4.65	2413
1097	PAYMASTER PM 1560 BG	4.50	1.10	84.2	28.0	9.5	69.5	6.9	4.40	2353
1009	NU 33 B	4.60	1.10	82.8	26.0	9.4	71.5	6.9	4.60	2440
953	SG 125	4.45	1.10	84.7	25.5	9.9	68.5	7.4	4.40	2239
1019	ALL TEX ATLAS	4.25	1.10	83.0	29.0	9.9	67.5	6.8	4.20	2815
689	DELTAPINE 50	4.60	1.10	83.2	25.0	9.6	69.0	6.3	4.50	2656
773	ACALA MAXXA	3.55	1.10	84.1	32.0	9.2	64.5	6.3	3.50	1321
.	LSD	0.25	.	1.7	2.8	0.4	4.5	1.1	0.24	308

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	M I	M (%)	p (microns)	w (mg/in)	t (microns)
1117	FIBERMAX 832	21.84	3.24	0.45	.	.	.	.	.	.	.
971	STV 474	19.54	3.26	1.07	.	.	.	.	.	.	.
1104	SG 747	18.83	3.15	0.66	412	18.3	1.51	93	45.99	4.32	3.1
1097	PAYMASTER PM 1560 BG	20.95	3.06	0.93	.	.	.	.	.	.	.
1009	NU 33 B	21.00	3.23	0.82	432	19.0	1.53	93	44.35	3.98	3.0
953	SG 125	18.73	3.32	0.72	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	21.73	3.25	0.80	455	24.5	1.65	87	45.55	3.87	2.7
689	DELTAPINE 50	21.11	3.10	0.83	.	.	.	.	.	.	.
773	ACALA MAXXA	19.64	3.42	0.59	504	34.5	1.84	80	45.60	3.49	2.4
.	LSD	1.90	0.30	0.22	68.8	29.4	0.58	23	8.94	0.37	0.6

VARIETIES BY LOCATIONS

WESLACO, TX

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 (%
1104	SG 747	1236	5.10	39.8	10.1	110	1.14	0.58	177	8.
1117	FIBERMAX 832	1047	8.10	36.7	11.3	149	1.22	0.60	225	5.
953	SG 125	972	4.95	38.9	10.0	115	1.14	0.58	178	7.
1009	NU 33 B	802	4.50	37.5	9.0	118	1.13	0.56	194	7.
1019	ALL TEX ATLAS	784	5.55	35.6	10.8	125	1.09	0.56	216	8.
689	DELTAPINE 50	775	5.15	34.7	10.3	119	1.15	0.58	181	8.
1097	PAYMASTER PM 1560 BG	727	4.75	38.9	10.6	119	1.11	0.57	180	7.
971	STV 474	722	5.10	39.9	9.8	127	1.13	0.59	192	7.
773	ACALA MAXXA	600	5.45	39.3	11.3	143	1.14	0.58	225	6.
.	LSD	453	2.27	2.0	0.8	6	0.03	0.02	11	1.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1104	SG 747	5.25	1.10	85.3	28.0	10.0	67.5	9.0	5.20	1753
1117	FIBERMAX 832	4.65	1.20	85.8	31.5	9.3	70.0	7.3	4.60	1839
953	SG 125	5.05	1.10	85.0	27.0	9.8	70.0	8.8	4.95	1402
1009	NU 33 B	5.15	1.10	83.4	28.5	9.8	70.0	7.3	5.20	903
1019	ALL TEX ATLAS	4.95	1.05	83.2	31.0	10.0	67.0	7.9	4.80	1509
689	DELTAPINE 50	4.85	1.10	84.8	26.5	9.8	73.0	7.4	5.15	1370
1097	PAYMASTER PM 1560 BG	4.85	1.10	83.4	27.5	9.7	71.5	8.6	4.65	1476
971	STV 474	5.65	1.10	85.0	31.5	10.0	70.0	8.2	5.40	678
773	ACALA MAXXA	4.10	1.10	84.8	32.5	9.5	68.5	8.1	4.10	1213
.	LSD	0.33	0.05	1.4	2.3	0.3	3.4	0.8	0.39	1260

AREALOMETER DATA

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	18.62	3.58	0.67	378	17.0	1.49	94	49.18	5.03	3.4
1117	FIBERMAX 832	21.02	3.32	0.46	.	.	.	.	.	.	.
953	SG 125	18.98	3.57	0.64	.	.	.	.	.	.	.
1009	NU 33 B	20.09	3.16	0.76	381	14.8	1.43	96	46.98	4.77	3.4
1019	ALL TEX ATLAS	19.51	3.50	0.71	394	12.3	1.36	99	43.31	4.26	3.4
689	DELTAPINE 50	21.30	3.13	0.93	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	20.12	3.37	0.61	.	.	.	.	.	.	.
971	STV 474	21.21	3.50	1.08	.	.	.	.	.	.	.
773	ACALA MAXXA	19.63	3.91	0.57	442	15.0	1.43	96	40.70	3.56	3.0
.	LSD	3.19	0.29	0.16	5.8	11.2	0.29	11	9.02	0.86	0.5

VARIETIES BY LOCATIONS
BOSSIER CITY, LA

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 (%)
1104	SG 747	1137	4.00	39.7	8.9	128	1.11	0.54	199	8.9
953	SG 125	934	4.00	39.0	8.8	127	1.11	0.56	203	8.5
1097	PAYMASTER PM 1560 BG	900	4.00	37.3	8.9	133	1.12	0.55	199	7.9
689	DELTAPINE 50	892	4.00	35.2	9.4	125	1.12	0.56	197	8.2
1117	FIBERMAX 832	872	4.50	37.1	9.4	157	1.16	0.57	235	6.7
971	STV 474	842	4.00	41.0	8.7	133	1.10	0.54	198	7.2
1009	NU 33 B	785	3.50	36.0	7.7	128	1.10	0.53	204	8.5
1019	ALL TEX ATLAS	717	4.50	33.8	10.3	141	1.10	0.55	234	8.1
773	ACALA MAXXA	575	4.00	38.8	10.4	162	1.11	0.56	283	7.4
.	LSD	151	0.94	1.0	0.7	7	0.02	0.02	18	0.8

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	SEED MICRONAIRE (Reading)	YIELD (lb/ac)
1104	SG 747	4.55	1.10	83.9	28.0	9.8	72.5	8.4	4.45	1765
953	SG 125	4.65	1.10	84.3	28.0	9.7	70.0	8.0	4.40	1427
1097	PAYMASTER PM 1560 BG	3.80	1.10	82.8	28.0	9.2	73.0	8.1	3.55	1582
689	DELTAPINE 50	4.40	1.10	83.8	27.0	9.4	72.5	7.3	4.15	1708
1117	FIBERMAX 832	3.70	1.20	85.2	33.5	9.4	75.5	7.5	3.55	1464
971	STV 474	4.55	1.10	84.2	29.0	9.3	70.5	8.7	4.50	1233
1009	NU 33 B	3.90	1.10	82.9	27.0	9.2	71.5	7.9	3.80	1535
1019	ALL TEX ATLAS	4.10	1.10	82.5	32.0	9.6	71.5	7.5	3.85	1549
773	ACALA MAXXA	3.85	1.10	84.1	37.0	9.6	73.0	7.8	3.75	858
.	LSD	0.36	.	1.4	1.6	0.5	2.3	0.6	0.45	552

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns
1104	SG 747	16.85	3.26	0.54	428	24.3	1.64	88	48.26	4.36	2.9
953	SG 125	18.00	3.33	0.53	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	17.84	3.18	0.58	.	.	.	.	.	.	.
689	DELTAPINE 50	18.62	3.17	0.73	461	36.0	1.88	79	51.17	4.30	2.6
1117	FIBERMAX 832	18.15	3.26	0.53	.	.	.	.	.	.	.
971	STV 474	17.28	3.27	0.77	.	.	.	.	.	.	.
1009	NU 33 B	17.40	3.28	0.55	496	43.5	2.02	74	50.97	3.97	2.4
1019	ALL TEX ATLAS	19.11	3.18	0.57	483	35.3	1.86	80	48.38	3.88	2.5
773	ACALA MAXXA	19.62	3.91	0.57	511	42.0	1.98	75	48.85	3.71	2.3
.	LSD	1.27	0.32	0.12	53.1	13.5	0.25	10	3.16	0.38	0.3

VARIETIES BY LOCATIONS
BEEVILLE, TX

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 (%)
1117	FIBERMAX 832	1415	6.50	38.5	10.7	144	1.18	0.59	225	6.8
971	STV 474	1204	6.00	39.7	9.5	111	1.11	0.56	170	10.0
1097	PAYMASTER PM 1560 BG	1172	6.00	41.9	9.5	113	1.11	0.57	178	8.7
953	SG 125	1145	6.00	39.6	9.2	122	1.11	0.56	175	8.7
1104	SG 747	1110	5.00	37.3	8.6	120	1.12	0.56	191	9.0
689	DELTAPINE 50	1073	6.00	36.5	9.9	111	1.11	0.55	176	9.7
1009	NU 33 B	1073	6.00	41.5	9.4	108	1.09	0.54	168	9.6
1019	ALL TEX ATLAS	1040	6.00	37.1	10.5	120	1.09	0.55	198	8.8
773	ACALA MAXXA	720	6.50	40.4	10.6	141	1.11	0.56	230	7.9
.	LSD	395	0.77	1.6	0.3	6	0.03	0.02	8	1.5

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1117	FIBERMAX 832	4.35	1.20	85.3	30.5	9.7	66.0	7.4	4.50	2200
971	STV 474	4.80	1.10	83.9	26.0	10.0	67.0	8.9	4.75	1897
1097	PAYMASTER PM 1560 BG	4.95	1.05	82.8	27.5	10.0	63.5	8.3	4.95	1599
953	SG 125	4.55	1.05	82.9	26.5	9.9	69.5	7.8	4.45	1812
1104	SG 747	4.50	1.10	83.4	26.5	9.8	67.0	7.9	4.50	1761
689	DELTAPINE 50	4.80	1.10	84.0	26.0	10.0	69.5	8.5	4.95	1720
1009	NU 33 B	5.20	1.10	82.6	25.5	11.0	65.0	9.4	5.25	2035
1019	ALL TEX ATLAS	4.90	1.00	82.1	29.5	10.0	66.5	7.4	4.95	1766
773	ACALA MAXXA	4.05	1.10	83.6	33.0	9.9	66.5	8.2	4.10	1110
.	LSD	0.39	0.07	1.3	1.4	0.3	4.1	0.7	0.53	325

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1117	FIBERMAX 832	21.33	3.27	0.53	.	.	.	.	.	.	.
971	STV 474	17.84	3.50	0.68	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	19.14	3.50	1.14	.	.	.	.	.	.	.
953	SG 125	18.98	3.36	0.86	.	.	.	.	.	.	.
1104	SG 747	18.72	3.36	0.75	439	23.5	1.63	89	46.40	4.08	2.9
689	DELTAPINE 50	19.44	3.55	0.90	.	.	.	.	.	.	.
1009	NU 33 B	18.09	3.57	0.67	394	18.0	1.50	93	47.83	4.70	3.3
1019	ALL TEX ATLAS	21.46	3.52	0.77	394	16.0	1.46	95	46.40	4.56	3.3
773	ACALA MAXXA	18.16	3.87	0.56	478	26.3	1.69	86	44.25	3.58	2.6
.	LSD	1.07	0.28	0.13	51.0	18.7	0.41	16	7.32	0.36	0.7

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 BLACKLANDS REGIONAL COTTON VARIETY TEST

BLACKLANDS REGION
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 (%)
689	DELTAPINE 50	654	6.00	34.1	9.1	111	1.10	0.54	171	8.0
1104	SG 747	604	6.00	38.4	8.6	116	1.10	0.54	171	8.9
1009	NU 33 B	570	5.50	34.9	8.0	124	1.10	0.55	189	7.6
1019	ALL TEX ATLAS	515	7.00	35.7	9.6	126	1.05	0.52	205	7.7
1018	TAMCOT SPHINX	449	7.00	36.4	9.3	134	1.08	0.54	210	6.9
773	ACALA MAXXA	394	7.00	40.0	10.2	154	1.13	0.56	229	6.7
.	LSD	120	.	2.4	0.9	17	0.08	0.04	20	0.6

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
689	DELTAPINE 50	4.38	1.05	82.2	24.5	9.1	71.3	9.1	4.38	1208	17.71
1104	SG 747	4.38	1.05	83.9	25.3	9.6	69.0	9.9	4.40	873	16.25
1009	NU 33 B	4.08	1.05	82.8	26.3	9.1	71.0	8.8	3.95	1023	17.89
1019	ALL TEX ATLAS	4.20	1.05	81.7	28.3	9.4	69.0	8.7	4.18	806	19.35
1018	TAMCOT SPHINX	4.35	1.05	82.5	28.3	9.1	67.3	9.1	4.13	819	17.88
773	ACALA MAXXA	4.00	1.10	84.2	32.5	9.4	68.0	8.5	3.83	449	18.19
.	LSD	0.57	0.07	3.0	2.8	0.5	5.5	1.1	0.72	646	2.00

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	M I	M (%)	p (microns)	w (mg/in)	t (microns)
689	DELTAPINE 50	3.40	0.52	.	.	.	.	.	.	.
1104	SG 747	3.40	0.43	451	29.5	1.72	85	47.48	4.07	2.8
1009	NU 33 B	3.45	0.53	459	35.3	1.85	80	50.56	4.30	2.7
1019	ALL TEX ATLAS	3.56	0.56	468	29.8	1.75	83	47.08	3.89	2.6
1018	TAMCOT SPHINX	3.69	0.42	.	.	.	.	.	.	.
773	ACALA MAXXA	3.82	0.43	490	28.4	1.72	85	43.96	3.47	2.5
.	LSD	0.26	0.09	70.3	27.9	0.56	21	9.57	0.49	0.7

REGION=BLACKLAND

BOLL SIZE, GRAM PER BOLL	
ACALA MAXXA	7.00
TAMCOT SPHINX	7.00
ALL TEX ATLAS	7.00
DELTAPINE 50	6.00
SG 747	6.00

LINT PERCENT	
ACALA MAXXA	40.0
SG 747	38.4
TAMCOT SPHINX	36.4
ALL TEX ATLAS	35.7
NU 33 B	34.9

SEED INDEX	
ACALA MAXXA	10.2
ALL TEX ATLAS	9.6
TAMCOT SPHINX	9.3
DELTAPINE 50	9.1
SG 747	8.6

NU 33 B	5.50
LSD	.

DELTAPINE 50	34.1
LSD	2.4

NU 33 B	8.0
LSD	0.9

2.5% S.L. (INCHES)	
ACALA MAXXA	1.10
ALL TEX ATLAS	1.05
TAMCOT SPHINX	1.05
DELTAPINE 50	1.05
SG 747	1.05
NU 33 B	1.05
LSD	0.07

UR (PERCENT)	
ACALA MAXXA	84.2
SG 747	83.9
NU 33 B	82.8
TAMCOT SPHINX	82.5
DELTAPINE 50	82.2
ALL TEX ATLAS	81.7
LSD	3.0

STRENGTH (G/TEX)	
ACALA MAXXA	32.5
TAMCOT SPHINX	28.3
ALL TEX ATLAS	28.3
NU 33 B	26.3
SG 747	25.3
DELTAPINE 50	24.5
LSD	2.8

E	
SG 747	9.6
ACALA MAXXA	9.4
ALL TEX ATLAS	9.4
NU 33 B	9.1
TAMCOT SPHINX	9.1
DELTAPINE 50	9.1
LSD	0.5

MICRONAIRE (SL-HVI)	
SG 747	4.40
DELTAPINE 50	4.38
ALL TEX ATLAS	4.18
TAMCOT SPHINX	4.13
NU 33 B	3.95
ACALA MAXXA	3.83
LSD	0.72

COLORIMETER - Rd	
DELTAPINE 50	71.3
NU 33 B	71.0
SG 747	69.0
ALL TEX ATLAS	69.0
ACALA MAXXA	68.0
TAMCOT SPHINX	67.3
LSD	5.5

COLORIMETER - b	
SG 747	9.9
DELTAPINE 50	9.1
TAMCOT SPHINX	9.1
NU 33 B	8.8
ALL TEX ATLAS	8.7
ACALA MAXXA	8.5
LSD	1.1

MICRONAIRE	
SG 747	4.38
DELTAPINE 50	4.38
TAMCOT SPHINX	4.35
ALL TEX ATLAS	4.20
NU 33 B	4.08
ACALA MAXXA	4.00
LSD	0.57

STELOMETER - E1	
SG 747	8.9
DELTAPINE 50	8.0
ALL TEX ATLAS	7.7
NU 33 B	7.6
TAMCOT SPHINX	6.9
ACALA MAXXA	6.7
LSD	0.6

STELOMETER - T1	
ACALA MAXXA	229
TAMCOT SPHINX	210
ALL TEX ATLAS	205
NU 33 B	189
SG 747	171
DELTAPINE 50	171
LSD	20

FIBROGRAPH--50% S.L.	
ACALA MAXXA	0.56
NU 33 B	0.55
TAMCOT SPHINX	0.54
SG 747	0.54
DELTAPINE 50	0.54
ALL TEX ATLAS	0.52
LSD	0.04

FIBROGRAPH--2.5% S.L.	
ACALA MAXXA	1.13
NU 33 B	1.10
DELTAPINE 50	1.10
SG 747	1.10
TAMCOT SPHINX	1.08
ALL TEX ATLAS	1.05
LSD	0.08

YARN TENACITY	
ACALA MAXXA	154
TAMCOT SPHINX	134
ALL TEX ATLAS	126
NU 33 B	124
SG 747	116
DELTAPINE 50	111
LSD	17

AREALOMETER - A (mm2/mm3)	
ACALA MAXXA	490
ALL TEX ATLAS	468
NU 33 B	459
SG 747	451
TAMCOT SPHINX	.
DELTAPINE 50	.
LSD	70.3

AREALOMETER - D (mm2/mm3)	
NU 33 B	35.3
ALL TEX ATLAS	29.8
SG 747	29.5
ACALA MAXXA	28.4
TAMCOT SPHINX	.
DELTAPINE 50	.
LSD	27.9

AREALOMETER - I	
NU 33 B	1.85
ALL TEX ATLAS	1.75
SG 747	1.72
ACALA MAXXA	1.72
TAMCOT SPHINX	.
DELTAPINE 50	.
LSD	0.56

AREALOMETER - M (PERCENT)	
ACALA MAXXA	85
SG 747	85
ALL TEX ATLAS	83
NU 33 B	80
TAMCOT SPHINX	.
DELTAPINE 50	.
LSD	21

AREALOMETER - p (Microns)	
NU 33 B	50.56
SG 747	47.48
ALL TEX ATLAS	47.08
ACALA MAXXA	43.96
TAMCOT SPHINX	.
DELTAPINE 50	.
LSD	9.57

AREALOMETER - w (MG/INCH)	
NU 33 B	4.30
SG 747	4.07

AREALOMETER - t (MICRONS)	
SG 747	2.8
NU 33 B	2.7

SEED YIELD (LB/ACRE)	
DELTAPINE 50	1208
NU 33 B	1023

ALL TEX ATLAS	3.89	ALL TEX ATLAS	2.6	SG 747	873
ACALA MAXXA	3.47	ACALA MAXXA	2.5	TAMCOT SPHINX	819
TAMCOT SPHINX	.	TAMCOT SPHINX	.	ALL TEX ATLAS	806
DELTAPINE 50	.	DELTAPINE 50	.	ACALA MAXXA	449
LSD	0.49	LSD	0.7	LSD	646

OIL (PERCENT)		NITROGEN (PERCENT)		FREE GOSSYPOL (PERCENT)	
ALL TEX ATLAS	19.35	ACALA MAXXA	3.82	ALL TEX ATLAS	0.56
ACALA MAXXA	18.19	TAMCOT SPHINX	3.69	NU 33 B	0.53
NU 33 B	17.89	ALL TEX ATLAS	3.56	DELTAPINE 50	0.52
TAMCOT SPHINX	17.88	NU 33 B	3.45	ACALA MAXXA	0.43
DELTAPINE 50	17.71	DELTAPINE 50	3.40	SG 747	0.43
SG 747	16.25	SG 747	3.40	TAMCOT SPHINX	0.42
LSD	2.00	LSD	0.26	LSD	0.09

VARIETIES COMBINING LOCATIONS — BLACKLAND REGION

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 (%)
THRALL, TX		668	6.42	34.9	9.9	131	1.13	0.56	194	8.2
DALLAS, TX		394	.	38.2	8.4	124	1.06	0.52	198	7.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
THRALL, TX		3.85	1.10	83.8	27.9	9.6	69.3	9.2	3.71	1030	17.64
DALLAS, TX		4.61	1.02	82.0	27.1	9.0	69.3	8.8	4.58	696	18.11

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
THRALL, TX		3.45	0.52	494	40.6	1.95	76	49.93	3.94	2.4
DALLAS, TX		3.66	0.44	440	20.9	1.57	91	44.61	3.93	2.9

VARIETIES BY LOCATIONS
DALLAS, TX

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 (%)
689	DELTAPINE 50	507	.	36.1	8.4	106	1.06	0.51	172	7.2
1104	SG 747	491	.	40.4	8.0	113	1.06	0.53	170	8.2
1009	NU 33 B	449	.	37.3	7.3	115	1.06	0.52	185	7.3
1019	ALL TEX ATLAS	363	.	36.2	8.6	124	1.02	0.51	208	7.0
773	ACALA MAXXA	296	.	41.3	9.9	159	1.13	0.56	241	6.3
1018	TAMCOT SPHINX	259	.	38.0	8.4	127	1.01	0.51	209	6.2
.	LSD	188	.	1.0	0.7	10	0.03	0.02	22	0.7

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
689	DELTAPINE 50	4.85	1.00	81.9	24.0	8.8	70.0	9.2	5.00	872
1104	SG 747	4.90	1.00	82.7	24.5	9.2	69.5	9.8	5.05	789
1009	NU 33 B	4.60	1.00	81.0	25.5	8.9	69.0	8.6	4.45	672
1019	ALL TEX ATLAS	4.35	1.00	81.0	28.0	9.0	68.5	8.3	4.30	870

773	ACALA MAXXA	4.25	1.10	84.4	33.5	9.4	68.5	7.9	4.20	434
1018	TAMCOT SPHINX	4.70	1.00	80.8	27.0	8.8	70.0	9.3	4.45	542
.	LSD	0.80	.	1.1	1.4	0.6	2.1	0.7	0.44	229

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	M I	M (%)	p (microns)	w (mg/in)	t (microns)
689	DELTAPINE 50	18.66	3.54	0.50	.	.	.	.	.	.	.
1104	SG 747	16.68	3.56	0.36	407	14.3	1.41	97	43.38	4.12	3.3
1009	NU 33 B	18.41	3.63	0.53	433	21.5	1.59	90	45.92	4.10	2.9
1019	ALL TEX ATLAS	19.06	3.56	0.50	461	28.3	1.73	85	47.05	3.95	2.7
773	ACALA MAXXA	18.53	3.92	0.41	459	19.5	1.54	92	42.09	3.54	2.8
1018	TAMCOT SPHINX	17.34	3.73	0.38	.	.	.	.	.	.	.
.	LSD	0.61	0.15	0.05	35.2	10.4	0.26	10	4.94	0.31	0.6

VARIETIES BY LOCATIONS
THRALL, TX

							DIGITAL FIBROGRAPH		STELOMETER	
VARIETY 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 (%)
689	DELTAPINE 50	801	6.00	32.0	9.8	117	1.14	0.56	169	8.8
1104	SG 747	717	6.00	36.5	9.3	120	1.14	0.56	173	9.6
1009	NU 33 B	692	5.50	32.5	8.8	132	1.14	0.58	193	8.0
1019	ALL TEX ATLAS	668	7.00	35.1	10.6	128	1.09	0.54	201	8.3
1018	TAMCOT SPHINX	639	7.00	34.8	10.3	141	1.15	0.58	210	7.6

773	ACALA MAXXA	492	7.00	38.8	10.5	150	1.13	0.57	217	7.2
.	LSD	358	0.74	1.5	0.5	6	0.04	0.02	12	1.2

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	SEED MICRONAIRE (Reading)	YIELD (lb/ac)
689	DELTAPINE 50	3.90	1.10	82.4	25.0	9.4	72.5	9.0	3.75	1545
1104	SG 747	3.85	1.10	85.1	26.0	10.0	68.5	10.0	3.75	958
1009	NU 33 B	3.55	1.10	84.7	27.0	9.4	73.0	9.0	3.45	1375
1019	ALL TEX ATLAS	4.05	1.10	82.5	28.5	9.8	69.5	9.1	4.05	742
1018	TAMCOT SPHINX	4.00	1.10	84.2	29.5	9.4	64.5	8.9	3.80	1096
773	ACALA MAXXA	3.75	1.10	84.0	31.5	9.4	67.5	9.2	3.45	464
.	LSD	0.30	.	1.2	1.9	0.6	8.4	1.0	0.37	1695

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
689	DELTAPINE 50	16.76	3.27	0.55	.	.	.	.	.	.	.
1104	SG 747	15.83	3.24	0.50	496	44.8	2.04	73	51.59	4.03	2.4
1009	NU 33 B	17.37	3.26	0.54	485	49.0	2.11	70	55.20	4.50	2.5
1019	ALL TEX ATLAS	19.64	3.55	0.62	474	31.3	1.78	82	47.11	3.84	2.6
1018	TAMCOT SPHINX	18.42	3.65	0.47	.	.	.	.	.	.	.
773	ACALA MAXXA	17.86	3.72	0.46	521	37.3	1.90	78	45.82	3.41	2.3
.	LSD	1.86	0.08	0.10	102	22.0	0.42	16	17.05	2.22	0.5

RETURN TO 1999 NCVT COVER PAGE

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

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 PLAINS REGIONAL COTTON VARIETY TEST

OVERALL SUMMARIES FOR PLAINS REGION
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 (%)
1104	SG 747	715	4.25	40.1	9.8	107	1.05	0.51	188	9.0
1133	PAYMASTER 330	692	4.58	37.6	10.1	117	0.99	0.50	216	8.7
1132	DP 2156	659	5.08	37.1	10.8	105	0.97	0.49	176	6.9
1009	NU 33 B	659	4.00	37.6	9.3	117	1.05	0.51	214	7.8
1019	ALL TEX ATLAS	652	4.67	36.9	10.7	128	1.04	0.52	234	8.1
1135	PAYMASTER 2326 RR	648	4.75	37.0	10.2	125	1.01	0.51	215	7.6
1018	TAMCOT SPHINX	640	4.33	37.4	10.1	127	1.02	0.51	224	7.0
1134	PAYMASTER 2145 RR	632	4.67	38.6	10.2	112	0.98	0.49	199	7.4
1131	ALL TEX EXCESS	622	4.83	36.8	10.7	113	1.02	0.51	196	7.4

1136	PAYMASTER TEJAS	617	4.42	36.2	10.4	121	0.99	0.50	225	9.1
971	STV 474	614	4.00	39.8	9.9	114	1.05	0.52	197	7.2
906	SOUTHLAND 400	561	4.67	36.3	10.9	124	1.04	0.51	211	6.8
773	ACALA MAXXA	539	4.42	39.7	10.9	143	1.08	0.53	248	7.5
.	LSD	70	0.43	1.7	0.6	10	0.04	0.02	17	0.7

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER Rd	COLORIMETER b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1104	SG 747	4.85	1.03	81.8	26.8	10.4	72.1	9.6	4.98	970	17.96
1133	PAYMASTER 330	4.46	0.98	80.9	29.9	10.0	73.0	8.7	4.58	1080	19.83
1132	DP 2156	4.91	0.96	80.5	25.9	9.0	72.6	9.4	5.03	1056	20.81
1009	NU 33 B	4.71	1.05	80.7	28.8	9.7	74.4	8.9	4.95	1064	19.84
1019	ALL TEX ATLAS	4.41	1.04	81.7	32.0	9.7	71.6	8.9	4.50	1042	19.57
1135	PAYMASTER 2326 RR	4.55	1.01	81.5	30.4	9.8	72.3	9.1	4.71	974	18.68
1018	TAMCOT SPHINX	4.68	0.99	81.0	30.3	9.5	72.6	9.0	4.80	1038	19.34
1134	PAYMASTER 2145 RR	4.69	0.98	80.3	27.6	9.1	72.3	8.9	4.83	945	20.03
1131	ALL TEX EXCESS	4.48	0.98	80.6	28.8	9.4	72.4	8.7	4.59	990	20.12
1136	PAYMASTER TEJAS	4.76	0.98	81.0	30.9	10.5	72.1	8.9	4.95	1019	19.57
971	STV 474	4.89	1.04	81.5	27.8	9.5	71.9	9.5	5.14	902	18.58
906	SOUTHLAND 400	4.45	1.04	81.3	30.4	9.5	73.6	8.8	4.54	969	19.29
773	ACALA MAXXA	4.18	1.05	82.1	35.3	10.0	70.9	8.3	4.20	809	18.89
.	LSD	0.34	0.04	0.7	1.9	0.5	1.7	0.3	0.44	121	1.55

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	3.50	0.47	391	8.9	1.52	92	48.99	4.88	3.3
1133	PAYMASTER 330	3.59	0.50	.	.	.	.	.	.	.
1132	DP 2156	3.58	0.50	.	.	.	.	.	.	.
1009	NU 33 B	3.43	0.63	403	7.3	1.48	94	46.10	4.45	3.2
1019	ALL TEX ATLAS	3.52	0.56	437	3.7	1.63	88	46.81	4.17	2.9

1135	PAYMASTER 2326 RR	3.53	0.53	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	3.71	0.52	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	3.76	0.47	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	3.61	0.50	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	3.53	0.56	.	.	.	.	.	.	.
971	STV 474	3.60	0.66	.	.	.	.	.	.	.
906	SOUTHLAND 400	3.60	0.47	.	.	.	.	.	.	.
773	ACALA MAXXA	3.76	0.51	454	7.6	1.71	85	47.34	4.03	2.7
.	LSD	0.19	0.07	34.3	6.3	0.14	5	3.29	0.53	0.4

1999 NATIONAL COTTON VARIETY TEST

REGION=PLAINS

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
DP 2156	5.08	SG 747	40.1	ACALA MAXXA	10.9
ALL TEX EXCESS	4.83	STV 474	39.8	SOUTHLAND 400	10.9
PAYMASTER 2326 RR	4.75	ACALA MAXXA	39.7	DP 2156	10.8
SOUTHLAND 400	4.67	PAYMASTER 2145 RR	38.6	ALL TEX ATLAS	10.7
ALL TEX ATLAS	4.67	NU 33 B	37.6	ALL TEX EXCESS	10.7
PAYMASTER 2145 RR	4.67	PAYMASTER 330	37.6	PAYMASTER TEJAS	10.4
PAYMASTER 330	4.58	TAMCOT SPHINX	37.4	PAYMASTER 2145 RR	10.2
ACALA MAXXA	4.42	DP 2156	37.1	PAYMASTER 2326 RR	10.2
PAYMASTER TEJAS	4.42	PAYMASTER 2326 RR	37.0	PAYMASTER 330	10.1
TAMCOT SPHINX	4.33	ALL TEX ATLAS	36.9	TAMCOT SPHINX	10.1
SG 747	4.25	ALL TEX EXCESS	36.8	STV 474	9.9
STV 474	4.00	SOUTHLAND 400	36.3	SG 747	9.8
NU 33 B	4.00	PAYMASTER TEJAS	36.2	NU 33 B	9.3
LSD	0.43	LSD	1.7	LSD	0.6

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

ACALA MAXXA	1.05
NU 33 B	1.05
SOUTHLAND 400	1.04
ALL TEX ATLAS	1.04
STV 474	1.04
SG 747	1.03
PAYMASTER 2326 RR	1.01
TAMCOT SPHINX	0.99
ALL TEX EXCESS	0.98
PAYMASTER TEJAS	0.98
PAYMASTER 2145 RR	0.98
PAYMASTER 330	0.98
DP 2156	0.96
LSD	0.04

ACALA MAXXA	82.1
SG 747	81.8
ALL TEX ATLAS	81.7
PAYMASTER 2326 RR	81.5
STV 474	81.5
SOUTHLAND 400	81.3
TAMCOT SPHINX	81.0
PAYMASTER TEJAS	81.0
PAYMASTER 330	80.9
NU 33 B	80.7
ALL TEX EXCESS	80.6
DP 2156	80.5
PAYMASTER 2145 RR	80.3
LSD	0.7

ACALA MAXXA	35.3
ALL TEX ATLAS	32.0
PAYMASTER TEJAS	30.9
PAYMASTER 2326 RR	30.4
SOUTHLAND 400	30.4
TAMCOT SPHINX	30.3
PAYMASTER 330	29.9
NU 33 B	28.8
ALL TEX EXCESS	28.8
STV 474	27.8
PAYMASTER 2145 RR	27.6
SG 747	26.8
DP 2156	25.9
LSD	1.9

E	
PAYMASTER TEJAS	10.5
SG 747	10.4
ACALA MAXXA	10.0
PAYMASTER 330	10.0
PAYMASTER 2326 RR	9.8
ALL TEX ATLAS	9.7
NU 33 B	9.7
STV 474	9.5
TAMCOT SPHINX	9.5
SOUTHLAND 400	9.5
ALL TEX EXCESS	9.4
PAYMASTER 2145 RR	9.1
DP 2156	9.0
LSD	0.5

MICRONAIRE (SL-HVI)	
STV 474	5.14
DP 2156	5.03
SG 747	4.98
NU 33 B	4.95
PAYMASTER TEJAS	4.95
PAYMASTER 2145 RR	4.83
TAMCOT SPHINX	4.80
PAYMASTER 2326 RR	4.71
ALL TEX EXCESS	4.59
PAYMASTER 330	4.58
SOUTHLAND 400	4.54
ALL TEX ATLAS	4.50
ACALA MAXXA	4.20
LSD	0.44

COLORIMETER - Rd	
NU 33 B	74.4
SOUTHLAND 400	73.6
PAYMASTER 330	73.0
DP 2156	72.6
TAMCOT SPHINX	72.6
ALL TEX EXCESS	72.4
PAYMASTER 2145 RR	72.3
PAYMASTER 2326 RR	72.3
SG 747	72.1
PAYMASTER TEJAS	72.1
STV 474	71.9
ALL TEX ATLAS	71.6
ACALA MAXXA	70.9
LSD	1.7

COLORIMETER - b	
SG 747	9.6

MICRONAIRE	
DP 2156	4.91

STELOMETER - E1	
PAYMASTER TEJAS	9.1

STV 474	9.5
DP 2156	9.4
PAYMASTER 2326 RR	9.1
TAMCOT SPHINX	9.0
ALL TEX ATLAS	8.9
PAYMASTER 2145 RR	8.9
NU 33 B	8.9
PAYMASTER TEJAS	8.9
SOUTHLAND 400	8.8
PAYMASTER 330	8.7
ALL TEX EXCESS	8.7
ACALA MAXXA	8.3
LSD	0.3

STV 474	4.89
SG 747	4.85
PAYMASTER TEJAS	4.76
NU 33 B	4.71
PAYMASTER 2145 RR	4.69
TAMCOT SPHINX	4.68
PAYMASTER 2326 RR	4.55
ALL TEX EXCESS	4.48
PAYMASTER 330	4.46
SOUTHLAND 400	4.45
ALL TEX ATLAS	4.41
ACALA MAXXA	4.18
LSD	0.34

SG 747	9.0
PAYMASTER 330	8.7
ALL TEX ATLAS	8.1
NU 33 B	7.8
PAYMASTER 2326 RR	7.6
ACALA MAXXA	7.5
PAYMASTER 2145 RR	7.4
ALL TEX EXCESS	7.4
STV 474	7.2
TAMCOT SPHINX	7.0
DP 2156	6.9
SOUTHLAND 400	6.8
LSD	0.7

STELOMETER - T1	
ACALA MAXXA	248
ALL TEX ATLAS	234
PAYMASTER TEJAS	225
TAMCOT SPHINX	224
PAYMASTER 330	216
PAYMASTER 2326 RR	215
NU 33 B	214
SOUTHLAND 400	211
PAYMASTER 2145 RR	199
STV 474	197
ALL TEX EXCESS	196
SG 747	188
DP 2156	176
LSD	17

FIBROGRAPH--50% S.L.	
ACALA MAXXA	0.53
ALL TEX ATLAS	0.52
STV 474	0.52
SG 747	0.51
PAYMASTER 2326 RR	0.51
SOUTHLAND 400	0.51
NU 33 B	0.51
ALL TEX EXCESS	0.51
TAMCOT SPHINX	0.51
PAYMASTER TEJAS	0.50
PAYMASTER 330	0.50
PAYMASTER 2145 RR	0.49
DP 2156	0.49
LSD	0.02

FIBROGRAPH--2.5% S.L.	
ACALA MAXXA	1.08
NU 33 B	1.05
SG 747	1.05
STV 474	1.05
ALL TEX ATLAS	1.04
SOUTHLAND 400	1.04
ALL TEX EXCESS	1.02
TAMCOT SPHINX	1.02
PAYMASTER 2326 RR	1.01
PAYMASTER 330	0.99
PAYMASTER TEJAS	0.99
PAYMASTER 2145 RR	0.98
DP 2156	0.97
LSD	0.04

YARN TENACITY	
ACALA MAXXA	143
ALL TEX ATLAS	128
TAMCOT SPHINX	127

AREALOMETER - A (mm2/mm3)	
ACALA MAXXA	454
ALL TEX ATLAS	437
NU 33 B	403

AREALOMETER - D (mm2/mm3)	
ACALA MAXXA	27.6
ALL TEX ATLAS	23.7
SG 747	18.9

PAYMASTER 2326 RR	125
SOUTHLAND 400	124
PAYMASTER TEJAS	121
PAYMASTER 330	117
NU 33 B	117
STV 474	114
ALL TEX EXCESS	113
PAYMASTER 2145 RR	112
SG 747	107
DP 2156	105
LSD	10

SG 747	391
TAMCOT SPHINX	.
PAYMASTER 2326 RR	.
SOUTHLAND 400	.
PAYMASTER TEJAS	.
PAYMASTER 330	.
STV 474	.
ALL TEX EXCESS	.
PAYMASTER 2145 RR	.
DP 2156	.
LSD	34.3

NU 33 B	17.3
TAMCOT SPHINX	.
PAYMASTER 2326 RR	.
SOUTHLAND 400	.
PAYMASTER TEJAS	.
PAYMASTER 330	.
STV 474	.
ALL TEX EXCESS	.
PAYMASTER 2145 RR	.
DP 2156	.
LSD	6.3

AREALOMETER - I	
ACALA MAXXA	1.71
ALL TEX ATLAS	1.63
SG 747	1.52
NU 33 B	1.48
TAMCOT SPHINX	.
PAYMASTER 2326 RR	.
SOUTHLAND 400	.
PAYMASTER TEJAS	.
PAYMASTER 330	.
STV 474	.
ALL TEX EXCESS	.
PAYMASTER 2145 RR	.
DP 2156	.
LSD	0.14

AREALOMETER - M (PERCENT)	
NU 33 B	94
SG 747	92
ALL TEX ATLAS	88
ACALA MAXXA	85
TAMCOT SPHINX	.
PAYMASTER 2326 RR	.
SOUTHLAND 400	.
PAYMASTER TEJAS	.
PAYMASTER 330	.
STV 474	.
ALL TEX EXCESS	.
PAYMASTER 2145 RR	.
DP 2156	.
LSD	5

AREALOMETER - p (Microns)	
SG 747	48.99
ACALA MAXXA	47.34
ALL TEX ATLAS	46.81
NU 33 B	46.10
TAMCOT SPHINX	.
PAYMASTER 2326 RR	.
SOUTHLAND 400	.
PAYMASTER TEJAS	.
PAYMASTER 330	.
STV 474	.
ALL TEX EXCESS	.
PAYMASTER 2145 RR	.
DP 2156	.
LSD	3.29

AREALOMETER - w (MG/INCH)	
SG 747	4.88
NU 33 B	4.45
ALL TEX ATLAS	4.17
ACALA MAXXA	4.03
TAMCOT SPHINX	.

AREALOMETER - t (MICRONS)	
SG 747	3.3
NU 33 B	3.2
ALL TEX ATLAS	2.9
ACALA MAXXA	2.7
TAMCOT SPHINX	.

SEED YIELD (LB/ACRE)	
PAYMASTER 330	108
NU 33 B	106
DP 2156	105
ALL TEX ATLAS	104
TAMCOT SPHINX	103

PAYMASTER 2326 RR	.	PAYMASTER 2326 RR	.	PAYMASTER TEJAS	101
SOUTHLAND 400	.	SOUTHLAND 400	.	ALL TEX EXCESS	99
PAYMASTER TEJAS	.	PAYMASTER TEJAS	.	PAYMASTER 2326 RR	97
PAYMASTER 330	.	PAYMASTER 330	.	SG 747	97
STV 474	.	STV 474	.	SOUTHLAND 400	96
ALL TEX EXCESS	.	ALL TEX EXCESS	.	PAYMASTER 2145 RR	94
PAYMASTER 2145 RR	.	PAYMASTER 2145 RR	.	STV 474	90
DP 2156	.	DP 2156	.	ACALA MAXXA	80
LSD	0.53	LSD	0.4	LSD	12

OIL (PERCENT)		NITROGEN (PERCENT)		FREE GOSSYPOL (PERCENT)	
DP 2156	20.81	PAYMASTER 2145 RR	3.76	STV 474	0.66
ALL TEX EXCESS	20.12	ACALA MAXXA	3.76	NU 33 B	0.63
PAYMASTER 2145 RR	20.03	TAMCOT SPHINX	3.71	PAYMASTER TEJAS	0.56
NU 33 B	19.84	ALL TEX EXCESS	3.61	ALL TEX ATLAS	0.56
PAYMASTER 330	19.83	SOUTHLAND 400	3.60	PAYMASTER 2326 RR	0.53
ALL TEX ATLAS	19.57	STV 474	3.60	TAMCOT SPHINX	0.52
PAYMASTER TEJAS	19.57	PAYMASTER 330	3.59	ACALA MAXXA	0.51
TAMCOT SPHINX	19.34	DP 2156	3.58	ALL TEX EXCESS	0.50
SOUTHLAND 400	19.29	PAYMASTER TEJAS	3.53	DP 2156	0.50
ACALA MAXXA	18.89	PAYMASTER 2326 RR	3.53	PAYMASTER 330	0.50
PAYMASTER 2326 RR	18.68	ALL TEX ATLAS	3.52	SOUTHLAND 400	0.47
STV 474	18.58	SG 747	3.50	PAYMASTER 2145 RR	0.47
SG 747	17.96	NU 33 B	3.43	SG 747	0.47
LSD	1.55	LSD	0.19	LSD	0.07

VARIETIES COMBINING LOCATIONS — PLAINS REGION

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 (%)

ALTUS, OK (IRR)	1231	5.38	38.8	11.2	127	1.05	0.54	229	7.7
CHICKASHA, OK (IRR)	801	5.31	38.5	11.1	.	.	.	.	.
LUBBOCK, TX (IRR)	712	4.46	37.0	10.9	121	1.06	0.52	213	8.4
CHILLICOTHE, TX (DRY)	695	.	.	.	.	.	.	.	.
CHICKASHA, OK (DRY)	532	4.96	38.4	10.4	.	.	.	.	.
TIPTON, OK	247	3.73	38.3	9.1	111	0.97	0.48	194	6.9
LAMESA, TX (DRY)	226	3.23	35.5	9.3	119	1.01	0.50	208	8.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
ALTUS, OK (IRR)		5.05	1.05	82.5	32.9	10.4	69.4	8.3	5.21	1939	20.59
CHICKASHA, OK (IRR)		.	.	.	.	.	.	.	.	1136	.
LUBBOCK, TX (IRR)		4.72	1.03	81.4	29.8	10.1	76.0	9.0	4.93	1215	19.23
CHILLICOTHE, TX (DRY)		.	.	.	.	.	.	.	.	.	.
CHICKASHA, OK (DRY)		.	.	.	.	.	.	.	.	820	.
TIPTON, OK		4.62	0.95	80.3	28.1	9.0	68.2	9.6	4.70	410	18.84
LAMESA, TX (DRY)		4.08	1.00	80.4	27.6	9.3	76.2	9.0	4.17	415	19.04

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
ALTUS, OK (IRR)		3.47	0.72	390	16.4	1.47	95	47.23	4.73	3.4
CHICKASHA, OK (IRR)		.	.	.	.	.	.	.	.	.
LUBBOCK, TX (IRR)		3.60	0.63	425	24.4	1.65	88	48.61	4.45	2.9
CHILLICOTHE, TX (DRY)		.	.	.	.	.	.	.	.	.
CHICKASHA, OK (DRY)		.	.	.	.	.	.	.	.	.
TIPTON, OK		3.76	0.33	420	20.1	1.55	91	46.22	4.29	3.1
LAMESA, TX (DRY)		3.55	0.43	450	26.5	1.69	86	47.19	4.07	2.7

VARIETIES COMBINING LOCATIONS PLAINS SUB-REGION

COMBINING LOCATIONS: LUBBOCK, TX AND LAMESA, TX

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 (%)
1133	PAYMASTER 330	540	4.00	35.6	10.0	120	1.02	0.50	218	9.0
1132	DP 2156	512	4.00	37.5	10.3	109	1.00	0.49	181	7.5
1018	TAMCOT SPHINX	488	4.00	36.2	10.3	125	1.03	0.51	215	7.3
1104	SG 747	482	3.50	36.6	10.0	106	1.05	0.51	185	9.6
1131	ALL TEX EXCESS	482	4.25	36.0	10.4	115	1.02	0.50	201	7.8
1135	PAYMASTER 2326 RR	470	4.00	35.2	10.0	124	1.02	0.51	218	7.9
1134	PAYMASTER 2145 RR	466	4.25	36.3	10.3	116	1.00	0.50	208	7.8
1009	NU 33 B	457	3.75	36.3	9.6	117	1.06	0.50	210	8.7
1019	ALL TEX ATLAS	455	3.75	37.2	10.6	135	1.09	0.54	240	8.4
1136	PAYMASTER TEJAS	452	3.50	34.8	10.1	121	1.01	0.50	229	9.6
773	ACALA MAXXA	450	3.75	35.6	9.8	136	1.07	0.53	232	8.0
906	SOUTHLAND 400	440	3.50	36.6	9.8	124	1.04	0.51	208	7.2
971	STV 474	404	3.75	37.4	9.6	113	1.04	0.51	193	7.7
.	LSD	122	0.87	3.0	1.3	19	0.06	0.03	20	1.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1133	PAYMASTER 330	4.38	1.00	80.6	29.0	9.9	76.0	8.7	4.48	966	19.82
1132	DP 2156	4.60	0.98	80.7	25.3	9.2	76.3	9.4	4.75	816	20.40
1018	TAMCOT SPHINX	4.50	1.00	80.9	29.0	9.5	76.8	9.2	4.65	857	18.25
1104	SG 747	4.55	1.00	81.1	25.8	10.5	75.3	9.8	4.78	857	18.73
1131	ALL TEX EXCESS	4.30	1.00	80.5	27.8	9.2	76.0	8.6	4.53	837	19.86

1135	PAYMASTER 2326 RR	4.45	1.00	81.4	29.3	9.8	75.8	9.3	4.60	860	18.13
1134	PAYMASTER 2145 RR	4.33	1.00	80.1	27.5	9.3	75.8	9.2	4.38	807	19.18
1009	NU 33 B	4.35	1.05	80.5	27.5	9.7	78.0	8.8	4.50	786	20.39
1019	ALL TEX ATLAS	4.15	1.08	81.8	32.3	9.7	76.5	8.9	4.30	780	19.81
1136	PAYMASTER TEJAS	4.58	1.00	80.8	30.3	10.5	75.8	8.9	4.80	833	18.69
773	ACALA MAXXA	4.15	1.05	81.8	33.3	9.9	75.0	8.3	4.18	790	18.88
906	SOUTHLAND 400	4.28	1.03	81.0	29.3	9.4	77.5	8.7	4.38	738	18.61
971	STV 474	4.60	1.05	81.0	26.8	9.5	74.5	9.7	4.88	670	18.01
.	LSD	0.52	0.07	1.4	2.7	0.6	2.7	0.5	0.55	243	2.43

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1133	PAYMASTER 330	3.63	0.54	.	.	.	.	.	.	.
1132	DP 2156	3.59	0.53	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	3.58	0.53	.	.	.	.	.	.	.
1104	SG 747	3.48	0.46	409	22.5	1.61	89	49.43	4.69	3.1
1131	ALL TEX EXCESS	3.57	0.52	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	3.54	0.52	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	3.71	0.46	.	.	.	.	.	.	.
1009	NU 33 B	3.54	0.61	431	22.1	1.60	90	46.47	4.18	2.9
1019	ALL TEX ATLAS	3.61	0.53	449	26.0	1.68	86	47.08	4.08	2.8
1136	PAYMASTER TEJAS	3.52	0.51	.	.	.	.	.	.	.
773	ACALA MAXXA	3.59	0.53	462	31.3	1.79	82	48.62	4.08	2.6
906	SOUTHLAND 400	3.56	0.47	.	.	.	.	.	.	.
971	STV 474	3.56	0.67	.	.	.	.	.	.	.
.	LSD	0.28	0.10	85.9	10.6	0.22	9	5.89	1.22	0.7

VARIETIES COMBINING LOCATIONS PLAINS SUB-REGION

COMBINING LOCATIONS:ALUTS, OK - CHICKASHA, OK(I) - CHICKASHA, OK(D) - TIPTON, OK - CHILLICOTHE, TX(D)

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 (%)
1104	SG 747	808	4.63	41.8	9.7	107	1.05	0.52	190	8.5
1133	PAYMASTER 330	753	4.88	38.6	10.2	115	0.97	0.49	214	8.5
1009	NU 33 B	740	4.13	38.3	9.1	116	1.05	0.52	218	6.9
1019	ALL TEX ATLAS	731	5.13	36.7	10.7	121	1.00	0.51	228	7.8
1135	PAYMASTER 2326 RR	719	5.13	37.9	10.3	125	1.00	0.51	212	7.3
1132	DP 2156	718	5.63	36.9	11.1	102	0.93	0.48	170	6.4
1018	TAMCOT SPHINX	701	4.50	38.1	10.0	129	1.01	0.51	233	6.7
1134	PAYMASTER 2145 RR	699	4.88	39.7	10.2	108	0.96	0.49	190	7.0
971	STV 474	698	4.13	41.1	10.0	116	1.06	0.53	201	6.7
1136	PAYMASTER TEJAS	682	4.88	36.9	10.6	121	0.96	0.51	220	8.7
1131	ALL TEX EXCESS	678	5.13	37.2	10.9	111	1.02	0.52	191	7.1
906	SOUTHLAND 400	610	5.25	36.1	11.4	125	1.04	0.51	213	6.4
773	ACALA MAXXA	575	4.75	41.7	11.4	151	1.09	0.54	264	7.1
.	LSD	87	0.41	1.5	0.5	10	0.03	0.02	24	1.4
									264	7.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1104	SG 747	5.15	1.05	82.5	27.8	10.3	69.0	9.5	5.18	1026	17.19
1133	PAYMASTER 330	4.55	0.95	81.2	30.8	10.0	70.0	8.7	4.68	1137	19.83
1009	NU 33 B	5.08	1.05	81.0	30.0	9.6	70.8	9.0	5.40	1202	19.29
1019	ALL TEX ATLAS	4.68	1.00	81.6	31.8	9.7	66.8	9.0	4.70	1173	19.34
1135	PAYMASTER 2326 RR	4.65	1.03	81.7	31.5	9.8	68.8	9.0	4.83	1031	19.24
1132	DP 2156	5.23	0.95	80.3	26.5	8.8	69.0	9.3	5.30	1176	21.22
1018	TAMCOT SPHINX	4.85	0.98	81.1	31.5	9.5	68.5	8.8	4.95	1129	20.44
1134	PAYMASTER 2145 RR	5.05	0.95	80.6	27.8	9.0	68.8	8.7	5.28	1015	20.89
971	STV 474	5.18	1.03	82.0	28.8	9.5	69.3	9.3	5.40	1018	19.16
1136	PAYMASTER TEJAS	4.95	0.95	81.2	31.5	10.4	68.5	8.9	5.10	1112	20.45
1131	ALL TEX EXCESS	4.65	0.95	80.7	29.8	9.5	68.8	8.7	4.65	1066	20.38
906	SOUTHLAND 400	4.63	1.05	81.7	31.5	9.5	69.8	8.9	4.70	1085	19.97

773	ACALA MAXXA	4.20	1.05	82.4	37.3	10.0	66.8	8.2	4.23	819	18.91
.	LSD	0.55	0.04	0.7	3.5	1.1	2.6	0.5	0.85	133	2.04

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	3.53	0.47	373	15.3	1.44	95	48.56	5.06	3.5
1133	PAYMASTER 330	3.55	0.45	.	.	.	.	.	.	.
1009	NU 33 B	3.33	0.65	375	12.5	1.37	98	45.74	4.72	3.6
1019	ALL TEX ATLAS	3.43	0.59	425	21.4	1.58	91	46.54	4.27	3.0
1135	PAYMASTER 2326 RR	3.51	0.54	.	.	.	.	.	.	.
1132	DP 2156	3.57	0.47	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	3.85	0.51	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	3.82	0.48	.	.	.	.	.	.	.
971	STV 474	3.65	0.65	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	3.55	0.61	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	3.65	0.49	.	.	.	.	.	.	.
906	SOUTHLAND 400	3.65	0.47	.	.	.	.	.	.	.
773	ACALA MAXXA	3.93	0.50	446	23.9	1.64	88	46.07	3.99	2.8
.	LSD	0.22	0.10	59.0	17.3	0.39	15	8.48	1.09	0.7

VARIETIES BY LOCATIONS
LUBBOCK, TX (IRR)

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 (%)
1133	PAYMASTER 330	857	5.00	36.0	10.5	124	1.03	0.52	226	9.4
1132	DP 2156	813	4.00	39.5	10.7	114	1.03	0.52	187	8.2
1018	TAMCOT SPHINX	769	5.00	36.5	11.7	123	1.06	0.51	224	7.4
1104	SG 747	733	4.00	35.7	11.5	106	1.08	0.53	182	9.7
1131	ALL TEX EXCESS	724	5.00	37.0	10.9	119	1.04	0.52	206	8.3
1009	NU 33 B	707	4.50	37.4	11.2	122	1.10	0.52	209	8.8

1134	PAYMASTER 2145 RR	698	5.00	37.0	11.3	114	1.01	0.50	206	8.0
1135	PAYMASTER 2326 RR	698	4.50	35.6	10.8	127	1.05	0.52	226	8.4
1136	PAYMASTER TEJAS	689	4.00	35.7	10.7	120	1.03	0.51	228	9.7
773	ACALA MAXXA	680	4.50	37.7	10.5	149	1.14	0.56	244	7.4
1019	ALL TEX ATLAS	671	4.00	36.5	11.1	121	1.07	0.54	227	8.3
906	SOUTHLAND 400	655	4.00	38.8	10.1	121	1.06	0.51	213	7.2
971	STV 474	565	4.50	38.1	10.5	113	1.06	0.53	196	8.0
.	LSD	169	1.21	3.9	3.2	10	0.03	0.02	11	1.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1133	PAYMASTER 330	4.70	1.00	81.4	30.0	10.0	76.0	8.8	4.90	1522
1132	DP 2156	4.90	1.00	81.3	27.0	10.0	76.5	9.2	5.05	1244
1018	TAMCOT SPHINX	4.80	1.00	81.4	29.5	9.8	76.5	9.3	5.10	1339
1104	SG 747	4.95	1.00	81.6	26.5	11.0	75.5	9.7	5.30	1325
1131	ALL TEX EXCESS	4.60	1.00	80.8	29.0	9.8	75.0	8.8	4.85	1234
1009	NU 33 B	4.80	1.10	81.5	29.5	10.0	78.5	8.9	5.00	1187
1134	PAYMASTER 2145 RR	4.75	1.00	80.1	29.0	10.0	75.0	9.2	4.85	1195
1135	PAYMASTER 2326 RR	4.85	1.00	82.1	30.5	10.0	75.0	9.5	5.05	1266
1136	PAYMASTER TEJAS	4.70	1.00	81.1	30.5	11.0	75.0	8.8	5.00	1239
773	ACALA MAXXA	4.00	1.10	83.3	36.0	10.0	77.5	8.6	4.05	1124
1019	ALL TEX ATLAS	4.55	1.05	81.6	31.5	10.0	76.0	8.9	4.75	1165
906	SOUTHLAND 400	4.65	1.05	81.3	30.5	9.9	77.0	8.6	4.80	1034
971	STV 474	5.10	1.10	81.6	27.5	10.0	74.0	9.5	5.40	920
.	LSD	0.41	0.06	1.1	1.6	0.1	1.7	0.4	0.46	286

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1133	PAYMASTER 330	20.70	3.60	0.64	.	.	.	.	.	.	.
1132	DP 2156	21.17	3.53	0.65	.	.	.	.	.	.	.

1018	TAMCOT SPHINX	17.39	3.46	0.61	.	.	.	.	.	.	.
1104	SG 747	17.42	3.52	0.60	391	22.3	1.60	90	51.41	5.08	3.2
1131	ALL TEX EXCESS	21.04	3.74	0.62	.	.	.	.	.	.	.
1009	NU 33 B	19.70	3.68	0.75	413	18.5	1.52	93	46.18	4.33	3.1
1134	PAYMASTER 2145 RR	20.20	3.80	0.57	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	18.02	3.49	0.58	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	18.11	3.47	0.56	.	.	.	.	.	.	.
773	ACALA MAXXA	19.64	3.75	0.62	477	33.3	1.83	81	48.08	3.90	2.5
1019	ALL TEX ATLAS	20.34	3.58	0.68	421	23.8	1.64	88	48.76	4.48	3.0
906	SOUTHLAND 400	18.23	3.57	0.56	.	.	.	.	.	.	.
971	STV 474	18.06	3.60	0.71	.	.	.	.	.	.	.
.	LSD	0.78	0.29	0.11	14.3	4.9	0.11	4	4.39	0.54	0.2

VARIETIES BY LOCATIONS
LAMESA, TX (DRY)

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 (%)
971	STV 474	242	3.00	36.7	8.7	113	1.01	0.49	190	7.3
1135	PAYMASTER 2326 RR	242	3.50	34.9	9.3	122	1.00	0.50	210	7.4
1019	ALL TEX ATLAS	240	3.50	37.9	10.2	150	1.10	0.54	254	8.4
1131	ALL TEX EXCESS	240	3.50	35.0	9.9	111	1.00	0.49	196	7.3
1134	PAYMASTER 2145 RR	234	3.50	35.7	9.3	119	1.00	0.50	209	7.7
1104	SG 747	231	3.00	37.6	8.5	107	1.02	0.49	187	9.6
906	SOUTHLAND 400	226	3.00	34.4	9.6	127	1.01	0.51	204	7.2
1133	PAYMASTER 330	224	3.00	35.2	9.4	116	1.01	0.49	210	8.5
773	ACALA MAXXA	219	3.00	33.4	9.2	122	0.99	0.49	221	8.7
1136	PAYMASTER TEJAS	215	3.00	34.0	9.5	121	1.00	0.50	231	9.5
1132	DP 2156	212	4.00	35.6	9.9	105	0.98	0.47	175	6.8
1018	TAMCOT SPHINX	207	3.00	35.9	9.0	127	1.01	0.51	207	7.3
1009	NU 33 B	207	3.00	35.3	8.1	113	1.02	0.49	210	8.5
.	LSD	20	0.85	2.0	0.9	9	0.03	0.02	15	1.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
971	STV 474	4.10	1.00	80.4	26.0	9.1	75.0	9.9	4.35	420
1135	PAYMASTER 2326 RR	4.05	1.00	80.7	28.0	9.6	76.5	9.1	4.15	453
1019	ALL TEX ATLAS	3.75	1.10	82.0	33.0	9.4	77.0	8.9	3.85	395
1131	ALL TEX EXCESS	4.00	1.00	80.3	26.5	8.7	77.0	8.5	4.20	439
1134	PAYMASTER 2145 RR	3.90	1.00	80.2	26.0	8.6	76.5	9.1	3.90	419
1104	SG 747	4.15	1.00	80.5	25.0	10.0	75.0	9.9	4.25	390
906	SOUTHLAND 400	3.90	1.00	80.6	28.0	8.9	78.0	8.8	3.95	441
1133	PAYMASTER 330	4.05	1.00	79.8	28.0	9.8	76.0	8.6	4.05	411
773	ACALA MAXXA	4.30	1.00	80.2	30.5	9.9	72.5	8.0	4.30	456
1136	PAYMASTER TEJAS	4.45	1.00	80.5	30.0	10.0	76.5	9.0	4.60	426
1132	DP 2156	4.30	0.95	80.1	23.5	8.5	76.0	9.7	4.45	388
1018	TAMCOT SPHINX	4.20	1.00	80.5	28.5	9.2	77.0	9.2	4.20	375
1009	NU 33 B	3.90	1.00	79.5	25.5	9.5	77.5	8.8	4.00	385
.	LSD	0.60	0.04	1.5	2.5	0.7	3.4	0.5	0.67	85

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
971	STV 474	17.97	3.52	0.64	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	18.23	3.59	0.45	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	19.28	3.65	0.39	478	28.3	1.73	85	45.40	3.68	2.6
1131	ALL TEX EXCESS	18.69	3.40	0.42	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	18.17	3.62	0.35	.	.	.	.	.	.	.
1104	SG 747	20.03	3.45	0.33	427	22.8	1.62	89	47.44	4.31	2.9
906	SOUTHLAND 400	19.00	3.55	0.38	.	.	.	.	.	.	.
1133	PAYMASTER 330	18.94	3.66	0.45	.	.	.	.	.	.	.
773	ACALA MAXXA	18.12	3.43	0.43	447	29.3	1.75	84	49.17	4.26	2.8
1136	PAYMASTER TEJAS	19.27	3.56	0.46	.	.	.	.	.	.	.

1132	DP 2156	19.63	3.65	0.42	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	19.11	3.70	0.45	.	.	.	.	.	.	.
1009	NU 33 B	21.09	3.40	0.47	450	25.8	1.68	87	46.76	4.03	2.7
.	LSD	1.09	0.29	0.18	56.6	7.4	0.15	7	3.24	0.79	0.4

VARIETIES BY LOCATIONS
ALTUS, OK (IRR)

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 (%)
1104	SG 747	1388	5.00	42.3	10.2	112	1.08	0.54	197	8.9
1009	NU 33 B	1376	5.00	39.1	9.4	122	1.09	0.54	235	7.8
971	STV 474	1353	4.50	42.0	10.5	122	1.11	0.56	216	7.2
1132	DP 2156	1326	6.00	38.5	11.6	108	0.96	0.51	195	6.3
1018	TAMCOT SPHINX	1312	5.00	38.4	11.2	137	1.07	0.55	253	6.2
1019	ALL TEX ATLAS	1270	6.00	36.7	11.6	132	1.03	0.54	245	8.2
1135	PAYMASTER 2326 RR	1242	6.00	38.5	11.1	136	1.05	0.54	238	8.2
1133	PAYMASTER 330	1240	5.00	38.7	11.1	126	1.02	0.51	241	9.0
1136	PAYMASTER TEJAS	1181	5.50	37.6	11.8	128	1.01	0.54	240	9.3
1134	PAYMASTER 2145 RR	1100	5.50	38.3	11.6	119	1.02	0.53	212	7.7
1131	ALL TEX EXCESS	1088	5.50	37.7	11.6	126	1.05	0.54	214	7.8
773	ACALA MAXXA	1079	5.50	40.4	12.5	154	1.12	0.56	266	7.8
906	SOUTHLAND 400	1046	5.50	36.3	12.2	129	1.07	0.54	220	6.1
.	LSD	73	1.05	1.4	0.7	10	0.02	0.02	25	1.5

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)

1104	SG 747	5.30	1.10	83.3	29.0	11.0	69.5	9.0	5.55	1864
1009	NU 33 B	5.10	1.10	82.1	32.0	10.5	72.5	8.2	5.25	2061
971	STV 474	5.20	1.10	83.4	31.5	10.5	70.5	8.8	5.35	1827
1132	DP 2156	5.65	1.00	81.1	29.5	10.0	69.0	8.7	5.90	2088
1018	TAMCOT SPHINX	5.25	1.00	82.5	35.0	10.0	68.5	8.1	5.35	2117
1019	ALL TEX ATLAS	4.95	1.05	82.5	33.0	10.0	68.5	8.6	5.15	2173
1135	PAYMASTER 2326 RR	4.95	1.10	82.9	34.5	11.0	68.5	8.5	5.15	1995
1133	PAYMASTER 330	4.85	1.00	82.5	34.0	11.0	71.0	8.2	5.10	2118
1136	PAYMASTER TEJAS	5.10	1.00	82.3	33.5	11.0	69.5	8.0	5.20	1975
1134	PAYMASTER 2145 RR	5.10	1.00	81.9	32.0	10.0	69.0	8.1	5.25	1810
1131	ALL TEX EXCESS	5.05	1.00	81.6	33.0	10.0	67.5	7.9	5.15	1838
773	ACALA MAXXA	4.10	1.10	83.3	37.5	10.0	68.0	7.9	4.05	1537
906	SOUTHLAND 400	5.05	1.10	82.8	33.0	10.0	70.5	8.3	5.25	1801
.	LSD	0.32	0.04	1.0	2.5	0.6	2.6	0.8	0.39	157

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	16.97	3.35	0.65	361	17.8	1.50	93	52.17	5.60	3.6
1009	NU 33 B	18.89	3.03	0.84	365	10.3	1.31	101	44.95	4.76	3.8
971	STV 474	19.32	3.50	0.87	.	.	.	.	.	.	.
1132	DP 2156	22.70	3.41	0.68	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	21.50	3.88	0.72	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	20.28	3.27	0.82	391	14.5	1.43	96	45.78	4.55	3.4
1135	PAYMASTER 2326 RR	20.90	3.38	0.77	.	.	.	.	.	.	.
1133	PAYMASTER 330	20.68	3.42	0.57	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	21.88	3.38	0.86	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	22.05	3.67	0.66	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	21.53	3.57	0.65	.	.	.	.	.	.	.
773	ACALA MAXXA	19.54	3.79	0.69	443	23.3	1.63	89	46.02	4.02	2.8
906	SOUTHLAND 400	21.48	3.52	0.67	.	.	.	.	.	.	.
.	LSD	1.67	0.26	0.17	46.0	8.5	0.22	8	7.70	1.13	0.7

VARIETIES BY LOCATIONS
CHICKASHA, OK (DRY)

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 (%)
1104	SG 747	654	4.50	42.8	9.5	.	.	.	.	.
1133	PAYMASTER 330	608	5.00	40.1	9.8	.	.	.	.	.
1134	PAYMASTER 2145 RR	565	4.50	40.0	10.0	.	.	.	.	.
1019	ALL TEX ATLAS	555	5.00	37.5	10.8	.	.	.	.	.
1009	NU 33 B	539	4.00	37.1	9.1	.	.	.	.	.
971	STV 474	534	4.50	41.1	10.0	.	.	.	.	.
1135	PAYMASTER 2326 RR	532	5.00	38.1	10.4	.	.	.	.	.
1136	PAYMASTER TEJAS	513	5.00	35.5	10.3	.	.	.	.	.
1131	ALL TEX EXCESS	508	5.50	36.2	11.2	.	.	.	.	.
1132	DP 2156	502	6.00	37.2	11.3	.	.	.	.	.
906	SOUTHLAND 400	478	5.50	36.1	11.5	.	.	.	.	.
1018	TAMCOT SPHINX	468	5.00	36.9	9.8	.	.	.	.	.
773	ACALA MAXXA	462	5.00	41.5	11.4	.	.	.	.	.
.	LSD	104	0.96	3.3	0.8	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1104	SG 747	.	.	.	.	.	.	.	.	709
1133	PAYMASTER 330	.	.	.	.	.	.	.	.	769
1134	PAYMASTER 2145 RR	.	.	.	.	.	.	.	.	723
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	862
1009	NU 33 B	.	.	.	.	.	.	.	.	925
971	STV 474	.	.	.	.	.	.	.	.	728
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	858
1136	PAYMASTER TEJAS	.	.	.	.	.	.	.	.	905
1131	ALL TEX EXCESS	.	.	.	.	.	.	.	.	897

1132	DP 2156	.	.	.	.	.	.	.	838
906	SOUTHLAND 400	.	.	.	.	.	.	.	954
1018	TAMCOT SPHINX	.	.	.	.	.	.	.	866
773	ACALA MAXXA	.	.	.	.	.	.	.	626
.	LSD	.	.	.	.	.	.	.	308

					AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	.	.	.	.	.	.	.	.	.	.
1133	PAYMASTER 330	.	.	.	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	.	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.	.
1009	NU 33 B	.	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	.	.	.	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	.	.	.	.	.	.	.	.	.	.
1132	DP 2156	.	.	.	.	.	.	.	.	.	.
906	SOUTHLAND 400	.	.	.	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	.	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
CHICKASHA, OK (IRR)

							DIGITAL FIBROGRAPH		STELOMETER	
VARIETY 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 (%)

1104	SG 747	986	5.00	41.3	10.5	.	.	.	.	.
1009	NU 33 B	882	4.50	36.9	10.0	.	.	.	.	.
1131	ALL TEX EXCESS	868	5.50	38.1	11.4	.	.	.	.	.
1134	PAYMASTER 2145 RR	838	5.50	39.4	10.6	.	.	.	.	.
1018	TAMCOT SPHINX	831	5.00	38.1	10.5	.	.	.	.	.
971	STV 474	807	4.50	40.7	10.8	.	.	.	.	.
1133	PAYMASTER 330	794	5.50	38.2	11.1	.	.	.	.	.
1019	ALL TEX ATLAS	782	5.50	37.0	11.7	.	.	.	.	.
1135	PAYMASTER 2326 RR	779	5.50	39.1	10.7	.	.	.	.	.
1132	DP 2156	767	6.00	36.6	11.5	.	.	.	.	.
1136	PAYMASTER TEJAS	763	5.00	38.2	10.9	.	.	.	.	.
906	SOUTHLAND 400	659	6.00	35.6	12.4	.	.	.	.	.
773	ACALA MAXXA	652	5.50	41.9	12.3	.	.	.	.	.
.	LSD	142	1.02	2.0	0.9	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1104	SG 747	.	.	.	.	.	.	.	.	1095
1009	NU 33 B	.	.	.	.	.	.	.	.	1318
1131	ALL TEX EXCESS	.	.	.	.	.	.	.	.	1141
1134	PAYMASTER 2145 RR	.	.	.	.	.	.	.	.	1134
1018	TAMCOT SPHINX	.	.	.	.	.	.	.	.	1240
971	STV 474	.	.	.	.	.	.	.	.	1176
1133	PAYMASTER 330	.	.	.	.	.	.	.	.	1240
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	1172
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	902
1132	DP 2156	.	.	.	.	.	.	.	.	1222
1136	PAYMASTER TEJAS	.	.	.	.	.	.	.	.	1112
906	SOUTHLAND 400	.	.	.	.	.	.	.	.	1172
773	ACALA MAXXA	.	.	.	.	.	.	.	.	838
.	LSD	.	.	.	.	.	.	.	.	328

----------AREALOMETER DATA----------

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	.	.	.	.	.	.	.	.	.	.
1009	NU 33 B	.	.	.	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	.	.	.	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	.	.	.	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	.	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.	.
1133	PAYMASTER 330	.	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.	.
1132	DP 2156	.	.	.	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	.	.	.	.	.	.	.	.	.	.
906	SOUTHLAND 400	.	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
CHILLICOTHE, TX (DRY)

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 (%)
1133	PAYMASTER 330	854	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	800	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	795	.	.	.	.	.	.	.	.
1132	DP 2156	748	.	.	.	.	.	.	.	.
1004	H 1244 HARTZ	730	.	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	702	.	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	698	.	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	696	.	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	682	.	.	.	.	.	.	.	.
906	SOUTHLAND 400	646	.	.	.	.	.	.	.	.
1009	NU 33 B	629	.	.	.	.	.	.	.	.

971	STV 474	561	.	.	.	.	.	.	.	.
773	ACALA MAXXA	488	.	.	.	.	.	.	.	.
.	LSD	115	.	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1133	PAYMASTER 330	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.
1132	DP 2156	.	.	.	.	.	.	.	.	.
1004	H 1244 HARTZ	.	.	.	.	.	.	.	.	.
1136	PAYMASTER TEJAS	.	.	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	.	.	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	.	.	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	.	.	.	.	.	.	.	.	.
906	SOUTHLAND 400	.	.	.	.	.	.	.	.	.
1009	NU 33 B	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.

					AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1133	PAYMASTER 330	.	.	.	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	.	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.	.
1132	DP 2156	.	.	.	.	.	.	.	.	.	.
1004	H 1244 HARTZ	.	.	.	.	.	.	.	.	.	.

1136	PAYMASTER TEJAS	.	.	.	.	.	.	.	.	.	.
1134	PAYMASTER 2145 RR	.	.	.	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	.	.	.	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	.	.	.	.	.	.	.	.	.	.
906	SOUTHLAND 400	.	.	.	.	.	.	.	.	.	.
1009	NU 33 B	.	.	.	.	.	.	.	.	.	.
971	STV 474	.	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
TIPTON, OK

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 (%)
1134	PAYMASTER 2145 RR	293	4.00	41.0	8.7	97	0.91	0.45	168	6.4
1104	SG 747	284	4.00	40.9	8.8	102	1.01	0.50	183	8.1
1009	NU 33 B	274	3.00	40.1	8.0	110	1.00	0.49	201	6.1
1133	PAYMASTER 330	267	4.00	37.3	9.0	105	0.92	0.47	186	8.1
1019	ALL TEX ATLAS	254	4.00	35.7	8.9	111	0.97	0.48	210	7.5
1136	PAYMASTER TEJAS	254	4.00	36.5	9.4	114	0.91	0.47	200	8.1
1132	DP 2156	248	4.50	35.3	10.1	96	0.90	0.46	146	6.4
1131	ALL TEX EXCESS	244	4.00	36.8	9.3	97	1.00	0.50	169	6.4
1135	PAYMASTER 2326 RR	244	4.00	35.8	9.2	115	0.96	0.49	186	6.4
971	STV 474	233	3.00	40.6	8.8	110	1.01	0.50	186	6.3
906	SOUTHLAND 400	220	4.00	36.5	9.6	121	1.01	0.49	206	6.8
1018	TAMCOT SPHINX	198	3.00	38.9	8.6	121	0.95	0.47	214	7.2
773	ACALA MAXXA	193	3.00	43.2	9.6	148	1.06	0.51	261	6.3
.	LSD	46	0.43	2.8	0.9	11	0.02	0.03	23	1.2

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

	2.5%	UNIFO-	STRE-	COLORIMETER	SEED

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	S.L. (in.)	MITY (%)	NGTH (g/tex)	HUNTER'S E	HUNTER'S Rd	HUNTER'S b	MICRONAIRE (Reading)	YIELD (lb/ac)
1134	PAYMASTER 2145 RR	5.00	0.90	79.3	23.5	7.9	68.5	9.3	5.30	391
1104	SG 747	5.00	1.00	81.7	26.5	9.7	68.5	10.0	4.80	435
1009	NU 33 B	5.05	1.00	79.9	28.0	8.8	69.0	9.8	5.55	505
1133	PAYMASTER 330	4.25	0.90	79.9	27.5	9.1	69.0	9.3	4.25	421
1019	ALL TEX ATLAS	4.40	0.95	80.7	30.5	9.5	65.0	9.5	4.25	483
1136	PAYMASTER TEJAS	4.80	0.90	80.1	29.5	9.8	67.5	9.9	5.00	457
1132	DP 2156	4.80	0.90	79.5	23.5	7.7	69.0	10.0	4.70	555
1131	ALL TEX EXCESS	4.25	0.90	79.9	26.5	9.0	70.0	9.6	4.15	389
1135	PAYMASTER 2326 RR	4.35	0.95	80.5	28.5	8.7	69.0	9.6	4.50	367
971	STV 474	5.15	0.95	80.6	26.0	8.5	68.0	9.8	5.45	340
906	SOUTHLAND 400	4.20	1.00	80.6	30.0	9.1	69.0	9.6	4.15	411
1018	TAMCOT SPHINX	4.45	0.95	79.8	28.0	9.0	68.5	9.5	4.55	293
773	ACALA MAXXA	4.30	1.00	81.5	37.0	10.0	65.5	8.6	4.40	276
.	LSD	0.55	0.09	1.7	3.6	1.2	2.9	0.5	0.78	128

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	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)
1134	PAYMASTER 2145 RR	19.73	3.97	0.31	.	.	.	.	.	.	.
1104	SG 747	17.41	3.70	0.29	385	12.8	1.38	98	44.95	4.52	3.5
1009	NU 33 B	19.69	3.62	0.46	385	14.8	1.43	96	46.53	4.68	3.4
1133	PAYMASTER 330	18.99	3.68	0.33	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	18.40	3.60	0.37	459	28.3	1.73	85	47.30	3.99	2.7
1136	PAYMASTER TEJAS	19.02	3.72	0.37	.	.	.	.	.	.	.
1132	DP 2156	19.73	3.74	0.27	.	.	.	.	.	.	.
1131	ALL TEX EXCESS	19.24	3.74	0.33	.	.	.	.	.	.	.
1135	PAYMASTER 2326 RR	17.59	3.65	0.32	.	.	.	.	.	.	.
971	STV 474	19.00	3.80	0.44	.	.	.	.	.	.	.
906	SOUTHLAND 400	18.47	3.79	0.28	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	19.38	3.81	0.30	.	.	.	.	.	.	.
773	ACALA MAXXA	18.28	4.07	0.31	450	24.5	1.65	88	46.11	3.97	2.8
.	LSD	1.24	0.17	0.06	41.1	3.5	0.08	3	3.88	0.78	0.4

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1999 National Cotton Variety Test

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 WESTERN REGIONAL COTTON VARIETY TEST

WESTERN REGION
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 (%)
1130	DELTAPINE 90 B	1248	4.67	40.8	8.9	126	1.14	0.55	211	7.5
1104	SG 747	1158	4.67	42.2	10.1	104	1.11	0.54	171	9.3
1009	NU 33 B	1115	4.50	40.8	9.6	121	1.13	0.55	207	8.4
1128	ACALA 1517-99	955	4.58	40.1	10.6	143	1.20	0.59	232	7.7
1129	ACALA W 1218	952	4.83	39.5	10.1	134	1.20	0.58	222	8.5
874	ACALA 1517-95	949	4.58	40.6	11.0	139	1.15	0.57	225	7.2
1019	ALL TEX ATLAS	937	4.75	39.8	10.6	123	1.08	0.55	211	8.7
773	ACALA MAXXA	894	5.17	40.8	10.8	142	1.14	0.56	229	7.7
.	LSD	271	0.57	2.4	1.1	5	0.03	0.02	11	0.5

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1130	DELTAPINE 90 B	4.43	1.10	82.3	30.0	9.4	81.0	8.2	4.35	1751	22.17
1104	SG 747	5.00	1.05	81.9	25.5	9.8	76.0	9.1	5.15	1530	20.37
1009	NU 33 B	4.52	1.10	82.0	26.5	9.5	79.5	8.0	4.40	1568	20.33
1128	ACALA 1517-99	4.42	1.20	84.1	32.5	9.9	79.5	8.2	4.30	1404	22.78
1129	ACALA W 1218	4.38	1.20	82.7	31.0	9.7	76.5	8.8	4.00	1418	22.29
874	ACALA 1517-95	4.33	1.20	83.9	32.0	9.6	76.0	8.4	4.40	1408	22.68
1019	ALL TEX ATLAS	4.80	1.05	81.9	29.5	10.0	78.5	8.1	4.90	1386	22.42
773	ACALA MAXXA	4.20	1.20	83.8	32.5	9.4	78.5	8.4	3.90	1249	21.87
.	LSD	0.32	.	.	.	.	.	.	.	416	1.27

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	M I	M (%)	p (microns)	w (mg/in)	t (microns)
1130	DELTAPINE 90 B	3.10	0.98	.	.	.	.	.	.	.
1104	SG 747	3.19	0.90	394	25.2	1.66	87	53.02	5.20	3.1
1009	NU 33 B	3.20	1.04	447	33.4	1.82	81	51.26	4.44	2.7
1128	ACALA 1517-99	3.23	0.87	.	.	.	.	.	.	.
1129	ACALA W 1218	3.23	0.88	.	.	.	.	.	.	.
874	ACALA 1517-95	3.18	0.79	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.14	0.92	414	24.4	1.64	88	49.72	4.65	3.0
773	ACALA MAXXA	3.61	0.74	462	31.3	1.78	82	48.61	4.09	2.6
.	LSD	0.23	0.12	38.5	9.7	0.20	8	3.53	0.39	0.4

REGION=WESTERN

BOLL SIZE, GRAM PER BOLL	
ACALA MAXXA	5.17
ACALA W 1218	4.83
ALL TEX ATLAS	4.75
SG 747	4.67
DELTAPINE 90 B	4.67
ACALA 1517-95	4.58
ACALA 1517-99	4.58
NU 33 B	4.50
LSD	0.57

LINT PERCENT	
SG 747	42.2
ACALA MAXXA	40.8
NU 33 B	40.8
DELTAPINE 90 B	40.8
ACALA 1517-95	40.6
ACALA 1517-99	40.1
ALL TEX ATLAS	39.8
ACALA W 1218	39.5
LSD	2.4

SEED INDEX	
ACALA 1517-95	11.0
ACALA MAXXA	10.8
ALL TEX ATLAS	10.6
ACALA 1517-99	10.6
ACALA W 1218	10.1
SG 747	10.1
NU 33 B	9.6
DELTAPINE 90 B	8.9
LSD	1.1

2.5% S.L. (INCHES)	
ACALA 1517-95	1.20
ACALA MAXXA	1.20
ACALA 1517-99	1.20
ACALA W 1218	1.20
NU 33 B	1.10
DELTAPINE 90 B	1.10
ALL TEX ATLAS	1.05
SG 747	1.05
LSD	.

UR (PERCENT)	
ACALA 1517-99	84.1
ACALA 1517-95	83.9
ACALA MAXXA	83.8
ACALA W 1218	82.7
DELTAPINE 90 B	82.3
NU 33 B	82.0
ALL TEX ATLAS	81.9
SG 747	81.9
LSD	.

STRENGTH (G/TEX)	
ACALA 1517-99	32.5
ACALA MAXXA	32.5
ACALA 1517-95	32.0
ACALA W 1218	31.0
DELTAPINE 90 B	30.0
ALL TEX ATLAS	29.5
NU 33 B	26.5
SG 747	25.5
LSD	.

E	
ALL TEX ATLAS	10.0
ACALA 1517-99	9.9
SG 747	9.8
ACALA W 1218	9.7
ACALA 1517-95	9.6
NU 33 B	9.5
ACALA MAXXA	9.4
DELTAPINE 90 B	9.4
LSD	.

MICRONAIRE (SL-HVI)	
SG 747	5.15
ALL TEX ATLAS	4.90
ACALA 1517-95	4.40
NU 33 B	4.40
DELTAPINE 90 B	4.35
ACALA 1517-99	4.30
ACALA W 1218	4.00
ACALA MAXXA	3.90
LSD	.

COLORIMETER - Rd	
DELTAPINE 90 B	81.0
NU 33 B	79.5
ACALA 1517-99	79.5
ALL TEX ATLAS	78.5
ACALA MAXXA	78.5
ACALA W 1218	76.5
SG 747	76.0
ACALA 1517-95	76.0
LSD	.

COLORIMETER - b	
SG 747	9.1
ACALA W 1218	8.8
ACALA MAXXA	8.4
ACALA 1517-95	8.4
DELTAPINE 90 B	8.2
ACALA 1517-99	8.2
ALL TEX ATLAS	8.1
NU 33 B	8.0
LSD	.

MICRONAIRE	
SG 747	5.00
ALL TEX ATLAS	4.80
NU 33 B	4.52
DELTAPINE 90 B	4.43
ACALA 1517-99	4.42
ACALA W 1218	4.38
ACALA 1517-95	4.33
ACALA MAXXA	4.20
LSD	0.32

STELOMETER - E1	
SG 747	9.3
ALL TEX ATLAS	8.7
ACALA W 1218	8.5
NU 33 B	8.4
ACALA 1517-99	7.7
ACALA MAXXA	7.7
DELTAPINE 90 B	7.5
ACALA 1517-95	7.2
LSD	0.5

STELOMETER - T1	
ACALA 1517-99	232
ACALA MAXXA	229
ACALA 1517-95	225
ACALA W 1218	222
DELTAPINE 90 B	211
ALL TEX ATLAS	211
NU 33 B	207
SG 747	171
LSD	11

FIBROGRAPH--50% S.L.	
ACALA 1517-99	0.59
ACALA W 1218	0.58
ACALA 1517-95	0.57
ACALA MAXXA	0.56
ALL TEX ATLAS	0.55
NU 33 B	0.55
DELTAPINE 90 B	0.55
SG 747	0.54
LSD	0.02

FIBROGRAPH--2.5% S.L.	
ACALA 1517-99	1.20
ACALA W 1218	1.20
ACALA 1517-95	1.15
ACALA MAXXA	1.14
DELTAPINE 90 B	1.14
NU 33 B	1.13
SG 747	1.11
ALL TEX ATLAS	1.08
LSD	0.03

YARN TENACITY	
ACALA 1517-99	143
ACALA MAXXA	142
ACALA 1517-95	139
ACALA W 1218	134
DELTAPINE 90 B	126
ALL TEX ATLAS	123
NU 33 B	121
SG 747	104
LSD	5

AREALOMETER - A (mm2/mm3)	
ACALA MAXXA	462
NU 33 B	447
ALL TEX ATLAS	414
SG 747	394
ACALA 1517-99	.
ACALA 1517-95	.
ACALA W 1218	.
DELTAPINE 90 B	.
LSD	38.5

AREALOMETER - D (mm2/mm3)	
NU 33 B	33.4
ACALA MAXXA	31.3
SG 747	25.2
ALL TEX ATLAS	24.4
ACALA 1517-99	.
ACALA 1517-95	.
ACALA W 1218	.
DELTAPINE 90 B	.
LSD	9.7

AREALOMETER - I	
NU 33 B	1.82
ACALA MAXXA	1.78
SG 747	1.66
ALL TEX ATLAS	1.64
ACALA 1517-99	.
ACALA 1517-95	.
ACALA W 1218	.
DELTAPINE 90 B	.
LSD	0.20

AREALOMETER - M (PERCENT)	
ALL TEX ATLAS	88
SG 747	87
ACALA MAXXA	82
NU 33 B	81
ACALA 1517-99	.
ACALA 1517-95	.
ACALA W 1218	.
DELTAPINE 90 B	.
LSD	8

AREALOMETER - p (Microns)	
SG 747	53.02
NU 33 B	51.26
ALL TEX ATLAS	49.72
ACALA MAXXA	48.61
ACALA 1517-99	.
ACALA 1517-95	.
ACALA W 1218	.
DELTAPINE 90 B	.
LSD	3.53

AREALOMETER - w (MG/INCH)	
SG 747	5.20
ALL TEX ATLAS	4.65
NU 33 B	4.44
ACALA MAXXA	4.09
ACALA 1517-99	.
ACALA 1517-95	.
ACALA W 1218	.
DELTAPINE 90 B	.
LSD	0.39

AREALOMETER - t (MICRONS)	
SG 747	3.1
ALL TEX ATLAS	3.0
NU 33 B	2.7
ACALA MAXXA	2.6
ACALA 1517-99	.
ACALA 1517-95	.
ACALA W 1218	.
DELTAPINE 90 B	.
LSD	0.4

SEED YIELD (LB/ACRE)	
DELTAPINE 90 B	1751
NU 33 B	1568
SG 747	1530
ACALA W 1218	1418
ACALA 1517-95	1408
ACALA 1517-99	1404
ALL TEX ATLAS	1386
ACALA MAXXA	1249
LSD	416

OIL (PERCENT)	
ACALA 1517-99	22.78
ACALA 1517-95	22.68
ALL TEX ATLAS	22.42
ACALA W 1218	22.29
DELTAPINE 90 B	22.17
ACALA MAXXA	21.87
SG 747	20.37

NITROGEN (PERCENT)	
ACALA MAXXA	3.61
ACALA 1517-99	3.23
ACALA W 1218	3.23
NU 33 B	3.20
SG 747	3.19
ACALA 1517-95	3.18
ALL TEX ATLAS	3.14

FREE GOSSYPOL (PERCENT)	
NU 33 B	1.04
DELTAPINE 90 B	0.98
ALL TEX ATLAS	0.92
SG 747	0.90
ACALA W 1218	0.88
ACALA 1517-99	0.87
ACALA 1517-95	0.79

NU 33 B	20.33	DELTAPINE 90 B	3.10	ACALA MAXXA	0.74
LSD	1.27	LSD	0.23	LSD	0.12

VARIETIES COMBINING LOCATIONS — WESTERN REGION

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 (%)
UNIVERSITY PARK, NM		1630	5.47	43.8	9.6	127	1.16	0.58	202	8.5
PECOS, TX (IRR)		832	3.94	37.2	10.2	130	1.12	0.54	211	7.7
ARTESIA, NM (IRR)		616	4.75	40.8	10.8	131	1.15	0.57	227	8.2

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
UNIVERSITY PARK, NM		4.56	.	.	.	.	.	.	.	2091	23.21
PECOS, TX (IRR)		4.33	1.14	82.8	29.9	9.7	78.2	8.4	4.43	1400	22.12
ARTESIA, NM (IRR)		4.64	.	.	.	.	.	.	.	902	20.26

AREALOMETER DATA

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
UNIVERSITY PARK, NM		3.09	1.07	430	30.4	1.77	83	51.78	4.70	2.8
PECOS, TX (IRR)		3.04	0.93	439	28.4	1.73	85	49.59	4.41	2.8
ARTESIA, NM (IRR)		3.57	0.66	419	26.9	1.69	86	50.59	4.68	3.0

VARIETIES BY LOCATIONS
UNIVERSITY PARK, NM

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 (%)
1130	DELTAPINE 90 B	2010	5.00	44.5	8.4	125	1.17	0.57	204	7.4
1104	SG 747	1879	5.50	45.7	9.3	104	1.13	0.56	163	9.5
1128	ACALA 1517-99	1669	5.25	42.6	10.3	138	1.23	0.61	213	8.4
1009	NU 33 B	1662	5.00	44.5	8.3	120	1.15	0.57	199	8.8
1129	ACALA W 1218	1544	6.00	43.0	9.7	134	1.21	0.59	215	8.8
1019	ALL TEX ATLAS	1504	5.75	42.6	9.8	119	1.12	0.58	197	9.2
874	ACALA 1517-95	1456	5.25	42.0	10.9	133	1.15	0.57	211	7.8
773	ACALA MAXXA	1320	6.00	45.3	10.1	143	1.15	0.58	216	7.9
.	LSD	223	0.69	1.9	1.0	9	0.03	0.04	11	1.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1130	DELTAPINE 90 B	4.70	.	.	.	.	.	.	.	2510
1104	SG 747	5.10	.	.	.	.	.	.	.	2228
1128	ACALA 1517-99	4.45	.	.	.	.	.	.	.	2244
1009	NU 33 B	4.55	.	.	.	.	.	.	.	2068
1129	ACALA W 1218	4.40	.	.	.	.	.	.	.	2048
1019	ALL TEX ATLAS	4.60	.	.	.	.	.	.	.	2027
874	ACALA 1517-95	4.35	.	.	.	.	.	.	.	2015
773	ACALA MAXXA	4.35	.	.	.	.	.	.	.	1589
.	LSD	0.33	.	.	.	.	.	.	.	269

AREALOMETER DATA

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A --(mm2/mm3)--	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1130	DELTAPINE 90 B	24.22	2.98	1.19	.	.	.	.	.	.	.
1104	SG 747	22.32	3.11	1.15	392	28.0	1.72	85	55.27	5.47	3.1
1128	ACALA 1517-99	23.98	3.03	1.07	.	.	.	.	.	.	.
1009	NU 33 B	22.58	3.09	1.32	453	36.8	1.88	79	52.29	4.50	2.7
1129	ACALA W 1218	23.12	2.97	1.08	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	22.74	3.06	1.06	437	31.0	1.78	83	51.27	4.55	2.8
874	ACALA 1517-95	24.05	2.91	0.90	.	.	.	.	.	.	.
773	ACALA MAXXA	22.70	3.62	0.82	438	26.0	1.68	87	48.29	4.27	2.8
.	LSD	1.33	0.17	0.10	101	20.6	0.38	14	5.47	1.36	0.8

VARIETIES BY LOCATIONS
PECOS, TX (IRR)

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 (%)
1130	DELTAPINE 90 B	1126	4.00	38.0	8.4	122	1.12	0.53	212	7.4
1104	SG 747	939	4.00	39.9	10.0	106	1.07	0.52	169	8.7
874	ACALA 1517-95	871	4.00	36.1	11.3	141	1.15	0.57	225	6.9
1009	NU 33 B	817	3.50	37.3	9.0	123	1.11	0.52	193	7.8
1019	ALL TEX ATLAS	810	4.00	36.9	10.8	126	1.05	0.53	205	8.2
1129	ACALA W 1218	792	3.50	36.2	10.4	132	1.17	0.57	220	8.0
1128	ACALA 1517-99	728	4.00	35.7	11.0	146	1.17	0.57	233	7.4
773	ACALA MAXXA	574	4.50	37.6	10.9	144	1.15	0.55	233	7.4
.	LSD	360	0.87	4.8	1.4	11	0.02	0.02	8	1.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	SEED MICRONAIRE (Reading)	YIELD (lb/ac)
1130	DELTAPINE 90 B	4.25	1.10	82.3	30.0	9.4	81.0	8.2	4.35	1818
1104	SG 747	4.95	1.05	81.9	25.5	9.8	76.0	9.1	5.15	1417
874	ACALA 1517-95	4.20	1.20	83.9	32.0	9.6	76.0	8.4	4.40	1543
1009	NU 33 B	4.30	1.10	82.0	26.5	9.5	79.5	8.0	4.40	1364
1019	ALL TEX ATLAS	4.75	1.05	81.9	29.5	10.0	78.5	8.1	4.90	1384
1129	ACALA W 1218	3.95	1.20	82.7	31.0	9.7	76.5	8.8	4.00	1397
1128	ACALA 1517-99	4.35	1.20	84.1	32.5	9.9	79.5	8.2	4.30	1319
773	ACALA MAXXA	3.85	1.20	83.8	32.5	9.4	78.5	8.4	3.90	955
.	LSD	0.56	0.08	1.4	1.8	0.4	2.1	0.6	0.57	538

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1130	DELTAPINE 90 B	21.87	2.92	1.02	.	.	.	.	.	.	.
1104	SG 747	20.45	2.93	0.95	394	23.8	1.64	88	52.06	5.11	3.2
874	ACALA 1517-95	23.03	2.89	0.88	.	.	.	.	.	.	.
1009	NU 33 B	19.70	2.99	0.98	451	30.0	1.76	84	49.09	4.21	2.7
1019	ALL TEX ATLAS	22.95	3.12	1.04	420	26.0	1.68	87	50.26	4.62	2.9
1129	ACALA W 1218	22.38	3.13	0.88	.	.	.	.	.	.	.
1128	ACALA 1517-99	23.93	2.99	0.91	.	.	.	.	.	.	.
773	ACALA MAXXA	22.69	3.35	0.79	491	33.8	1.83	81	46.98	3.71	2.5
.	LSD	2.83	0.26	0.19	38.6	11.8	0.23	9	8.57	0.97	0.3

VARIETIES BY LOCATIONS
ARTESIA, NM (IRR)

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 (%)
1009	NU 33 B	866	5.00	40.6	11.6	121	1.15	0.56	229	8.8
773	ACALA MAXXA	788	5.00	39.6	11.4	141	1.12	0.56	238	7.7
1104	SG 747	657	4.50	41.2	11.0	104	1.13	0.56	180	9.7
1130	DELTAPINE 90 B	610	5.00	39.8	9.9	132	1.14	0.55	218	7.8
1129	ACALA W 1218	521	5.00	39.2	10.4	136	1.22	0.60	231	8.8
874	ACALA 1517-95	520	4.50	43.8	10.8	142	1.16	0.58	239	6.8
1019	ALL TEX ATLAS	498	4.50	40.0	11.2	125	1.07	0.55	231	8.8
1128	ACALA 1517-99	468	4.50	41.9	10.4	146	1.21	0.60	249	7.4
.	LSD	237	1.18	1.8	1.0	10	0.06	0.04	22	1.2

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1009	NU 33 B	4.70	.	.	.	.	.	.		1270
773	ACALA MAXXA	4.40	.	.	.	.	.	.		1204
1104	SG 747	4.95	.	.	.	.	.	.		944
1130	DELTAPINE 90 B	4.35	.	.	.	.	.	.		923
1129	ACALA W 1218	4.80	.	.	.	.	.	.		809
874	ACALA 1517-95	4.45	.	.	.	.	.	.		666
1019	ALL TEX ATLAS	5.05	.	.	.	.	.	.		747
1128	ACALA 1517-99	4.45	.	.	.	.	.	.		650
.	LSD	0.48	.	.	.	.	.	.		386

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	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)
1009	NU 33 B	18.72	3.52	0.81	439	33.5	1.83	81	52.42	4.62	2.8
773	ACALA MAXXA	20.21	3.87	0.60	456	34.3	1.84	80	50.56	4.29	2.7

1104	SG 747	18.34	3.53	0.61	397	23.8	1.64	88	51.73	5.04	3.2
1130	DELTAPINE 90 B	20.43	3.42	0.75	.	.	.	.	.	.	.
1129	ACALA W 1218	21.36	3.60	0.70	.	.	.	.	.	.	.
874	ACALA 1517-95	20.98	3.74	0.58	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	21.59	3.24	0.66	385	16.3	1.46	95	47.65	4.78	3.4
1128	ACALA 1517-99	20.45	3.68	0.62	.	.	.	.	.	.	.
.	LSD	0.82	0.42	0.11	61.5	20.1	0.40	15	4.84	0.34	0.5

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1999 National Cotton Variety Test

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 SAN JOAQUIN REGIONAL COTTON VARIETY TEST

SAN JOAQUIN REGION
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 (%)
1104	SG 747	1549	5.50	41.8	10.8	105	1.13	0.54	171	9.1
947	PHY 33	1478	7.00	39.8	13.2	138	1.20	0.59	235	6.4
996	C 143	1464	5.75	45.0	11.8	138	1.20	0.59	232	6.8
1009	NU 33 B	1430	4.75	38.8	10.2	119	1.16	0.56	195	8.1
773	ACALA MAXXA	1420	5.75	43.0	12.1	138	1.18	0.58	234	7.0
1030	OA 211	1366	5.25	41.7	12.2	132	1.18	0.56	224	6.8
900	DPL 5461	1346	5.50	42.9	12.8	140	1.20	0.58	240	6.5
380	ACALA SJ-2	1269	5.50	37.8	13.9	129	1.18	0.59	215	6.7
1019	ALL TEX ATLAS	1215	5.25	37.6	12.2	123	1.13	0.56	214	7.7

.	LSD	287	1.09	4.8	1.5	6	0.02	0.02	19	0.8

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1104	SG 747	4.20	1.10	83.0	27.0	10.0	73.0	9.6	4.13	2092	0.69
947	PHY 33	4.15	1.18	84.8	32.3	9.8	72.3	9.3	4.10	2236	0.45
996	C 143	4.08	1.20	84.4	32.5	9.9	71.8	9.2	4.03	1739	0.49
1009	NU 33 B	3.60	1.15	82.8	29.5	9.7	75.0	9.2	3.58	2149	0.42
773	ACALA MAXXA	3.90	1.15	84.1	33.3	9.6	73.5	9.1	3.85	1749	0.52
1030	OA 211	4.05	1.18	84.0	32.3	9.6	71.8	9.0	4.03	1837	0.57
900	DPL 5461	3.98	1.18	84.4	34.5	9.7	73.3	9.0	3.90	1741	0.71
380	ACALA SJ-2	4.28	1.15	84.0	31.3	9.2	73.3	9.3	4.23	1952	0.30
1019	ALL TEX ATLAS	4.28	1.10	83.2	31.3	10.0	73.0	8.8	4.30	2022	0.29
.	LSD	0.58	0.07	0.8	1.4	0.2	2.3	0.4	0.58	567	0.46

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	3.44	0.83	458	40.0	1.95	76	53.52	4.52	2.6
947	PHY 33	3.50	0.50	.	.	.	.	.	.	.
996	C 143	4.11	0.71	.	.	.	.	.	.	.
1009	NU 33 B	3.27	0.79	519	51.8	2.15	68	52.09	3.90	2.3
773	ACALA MAXXA	3.90	0.62	496	39.5	1.94	77	49.18	3.84	2.4
1030	OA 211	3.80	0.71	.	.	.	.	.	.	.
900	DPL 5461	3.88	0.68	.	.	.	.	.	.	.
380	ACALA SJ-2	3.52	0.71	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.45	0.82	450	32.8	1.80	82	50.20	4.33	2.7
.	LSD	0.17	0.16	66.4	22.7	0.44	17	6.62	0.53	0.6

REGION=SAN JOAQUIN

BOLL SIZE, GRAM PER BOLL	
PHY 33	7.00
ACALA MAXXA	5.75
C 143	5.75
ACALA SJ-2	5.50
DPL 5461	5.50
SG 747	5.50
ALL TEX ATLAS	5.25
OA 211	5.25
NU 33 B	4.75
LSD	1.09

LINT PERCENT	
C 143	45.0
ACALA MAXXA	43.0
DPL 5461	42.9
SG 747	41.8
OA 211	41.7
PHY 33	39.8
NU 33 B	38.8
ACALA SJ-2	37.8
ALL TEX ATLAS	37.6
LSD	4.8

SEED INDEX	
ACALA SJ-2	13.9
PHY 33	13.2
DPL 5461	12.8
ALL TEX ATLAS	12.2
OA 211	12.2
ACALA MAXXA	12.1
C 143	11.8
SG 747	10.8
NU 33 B	10.2
LSD	1.5

2.5% S.L. (INCHES)	
C 143	1.20
PHY 33	1.18
DPL 5461	1.18
OA 211	1.18
ACALA SJ-2	1.15
ACALA MAXXA	1.15
NU 33 B	1.15
ALL TEX ATLAS	1.10
SG 747	1.10
LSD	0.07

UR (PERCENT)	
PHY 33	84.8
C 143	84.4
DPL 5461	84.4
ACALA MAXXA	84.1
OA 211	84.0
ACALA SJ-2	84.0
ALL TEX ATLAS	83.2
SG 747	83.0
NU 33 B	82.8
LSD	0.8

STRENGTH (G/TEX)	
DPL 5461	34.5
ACALA MAXXA	33.3
C 143	32.5
PHY 33	32.3
OA 211	32.3
ACALA SJ-2	31.3
ALL TEX ATLAS	31.3
NU 33 B	29.5
SG 747	27.0
LSD	1.4

E	
ALL TEX ATLAS	10.0
SG 747	10.0
C 143	9.9
PHY 33	9.8

MICRONAIRE (SL-HVI)	
ALL TEX ATLAS	4.30
ACALA SJ-2	4.23
SG 747	4.13
PHY 33	4.10

COLORIMETER - Rd	
NU 33 B	75.0
ACALA MAXXA	73.5
ACALA SJ-2	73.3
DPL 5461	73.3

NU 33 B	9.7
DPL 5461	9.7
OA 211	9.6
ACALA MAXXA	9.6
ACALA SJ-2	9.2
LSD	0.2

C 143	4.03
OA 211	4.03
DPL 5461	3.90
ACALA MAXXA	3.85
NU 33 B	3.58
LSD	0.58

ALL TEX ATLAS	73.0
SG 747	73.0
PHY 33	72.3
C 143	71.8
OA 211	71.8
LSD	2.3

COLORIMETER - b	
SG 747	9.6
PHY 33	9.3
ACALA SJ-2	9.3
NU 33 B	9.2
C 143	9.2
ACALA MAXXA	9.1
DPL 5461	9.0
OA 211	9.0
ALL TEX ATLAS	8.8
LSD	0.4

MICRONAIRE	
ACALA SJ-2	4.28
ALL TEX ATLAS	4.28
SG 747	4.20
PHY 33	4.15
C 143	4.08
OA 211	4.05
DPL 5461	3.98
ACALA MAXXA	3.90
NU 33 B	3.60
LSD	0.58

STELOMETER - E1	
SG 747	9.1
NU 33 B	8.1
ALL TEX ATLAS	7.7
ACALA MAXXA	7.0
OA 211	6.8
C 143	6.8
ACALA SJ-2	6.7
DPL 5461	6.5
PHY 33	6.4
LSD	0.8

STELOMETER - T1	
DPL 5461	240
PHY 33	235
ACALA MAXXA	234
C 143	232
OA 211	224
ACALA SJ-2	215
ALL TEX ATLAS	214
NU 33 B	195
SG 747	171
LSD	19

FIBROGRAPH--50% S.L.	
PHY 33	0.59
C 143	0.59
ACALA SJ-2	0.59
DPL 5461	0.58
ACALA MAXXA	0.58
OA 211	0.56
ALL TEX ATLAS	0.56
NU 33 B	0.56
SG 747	0.54
LSD	0.02

FIBROGRAPH--2.5% S.L.	
PHY 33	1.20
C 143	1.20
DPL 5461	1.20
ACALA SJ-2	1.18
ACALA MAXXA	1.18
OA 211	1.18
NU 33 B	1.16
ALL TEX ATLAS	1.13
SG 747	1.13
LSD	0.02

YARN TENACITY

AREALOMETER - A (mm2/mm3)

AREALOMETER - D (mm2/mm3)

DPL 5461	140
C 143	138
ACALA MAXXA	138
PHY 33	138
OA 211	132
ACALA SJ-2	129
ALL TEX ATLAS	123
NU 33 B	119
SG 747	105
LSD	6

NU 33 B	519
ACALA MAXXA	496
SG 747	458
ALL TEX ATLAS	450
DPL 5461	.
PHY 33	.
C 143	.
OA 211	.
ACALA SJ-2	.
LSD	66.4

NU 33 B	51.8
SG 747	40.0
ACALA MAXXA	39.5
ALL TEX ATLAS	32.8
DPL 5461	.
PHY 33	.
C 143	.
OA 211	.
ACALA SJ-2	.
LSD	22.7

AREALOMETER - I	
NU 33 B	2.15
SG 747	1.95
ACALA MAXXA	1.94
ALL TEX ATLAS	1.80
DPL 5461	.
PHY 33	.
C 143	.
OA 211	.
ACALA SJ-2	.
LSD	0.44

AREALOMETER - M (PERCENT)	
ALL TEX ATLAS	82
ACALA MAXXA	77
SG 747	76
NU 33 B	68
DPL 5461	.
PHY 33	.
C 143	.
OA 211	.
ACALA SJ-2	.
LSD	17

AREALOMETER - p (Microns)	
SG 747	53.52
NU 33 B	52.09
ALL TEX ATLAS	50.20
ACALA MAXXA	49.18
DPL 5461	.
PHY 33	.
C 143	.
OA 211	.
ACALA SJ-2	.
LSD	6.62

AREALOMETER - w (MG/INCH)	
SG 747	4.52
ALL TEX ATLAS	4.33
NU 33 B	3.90
ACALA MAXXA	3.84
DPL 5461	.
PHY 33	.
C 143	.
OA 211	.
ACALA SJ-2	.

AREALOMETER - t (MICRONS)	
ALL TEX ATLAS	2.7
SG 747	2.6
ACALA MAXXA	2.4
NU 33 B	2.3
DPL 5461	.
PHY 33	.
C 143	.
OA 211	.
ACALA SJ-2	.

SEED YIELD (LB/ACRE)	
PHY 33	2236
NU 33 B	2149
SG 747	2092
ALL TEX ATLAS	2022
ACALA SJ-2	1952
OA 211	1837
ACALA MAXXA	1749
DPL 5461	1741
C 143	1739

LSD	0.53	LSD	0.6	LSD	567

OIL (PERCENT)		NITROGEN (PERCENT)		FREE GOSSYPOL (PERCENT)	
C 143	20.74	C 143	4.11	SG 747	0.83
ALL TEX ATLAS	20.54	ACALA MAXXA	3.90	ALL TEX ATLAS	0.82
DPL 5461	19.96	DPL 5461	3.88	NU 33 B	0.79
OA 211	19.57	OA 211	3.80	OA 211	0.71
ACALA MAXXA	19.52	ACALA SJ-2	3.52	C 143	0.71
PHY 33	18.95	PHY 33	3.50	ACALA SJ-2	0.71
NU 33 B	17.67	ALL TEX ATLAS	3.45	DPL 5461	0.68
ACALA SJ-2	17.55	SG 747	3.44	ACALA MAXXA	0.62
SG 747	16.94	NU 33 B	3.27	PHY 33	0.50
LSD	0.88	LSD	0.17	LSD	0.16

VARIETIES COMBINING LOCATIONS — SAN JOAQUIN REGION

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 (%)
W SIDE FIELD STATION, CA		1737	6.22	42.7	11.4	128	1.18	0.58	210	7.3
SHAFTER, CA		1049	4.94	39.1	12.9	130	1.16	0.57	225	7.2

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
W SIDE FIELD STATION, CA		3.99	1.16	83.6	31.2	9.7	72.4	8.7	3.91	2373	19.11
SHAFTER, CA		4.12	1.14	84.0	31.8	9.8	73.6	9.6	4.12	1520	18.98

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
W SIDE FIELD STATION, CA		3.54	0.82	488	42.6	1.99	74	51.41	4.09	2.4
SHAFTER, CA		3.77	0.60	474	39.4	1.93	77	51.09	4.21	2.6

VARIETIES BY LOCATION
SHAFTER, CA

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 (%)
1104	SG 747	1315	5.50	41.4	11.3	104	1.11	0.53	175	9.4
380	ACALA SJ-2	1079	5.00	35.2	15.3	132	1.17	0.59	219	6.4
947	PHY 33	1078	6.00	37.6	13.6	139	1.19	0.59	243	6.8
1030	OA 211	1064	4.50	37.2	13.4	134	1.17	0.56	233	6.8
1009	NU 33 B	1049	4.00	35.6	11.2	116	1.15	0.54	195	7.9
996	C 143	1047	5.00	44.7	12.3	142	1.19	0.58	243	6.8
773	ACALA MAXXA	1017	5.00	41.1	12.4	140	1.17	0.57	236	7.0
900	DPL 5461	900	4.50	42.0	12.9	140	1.19	0.58	256	6.5
1019	ALL TEX ATLAS	892	5.00	37.1	13.3	124	1.13	0.57	229	7.3
.	LSD	187	1.80	4.6	2.0	5	0.02	0.02	31	1.6

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1104	SG 747	4.25	1.10	83.0	27.0	10.0	73.5	10.0	4.15	1661

380	ACALA SJ-2	4.55	1.15	84.2	31.5	9.2	73.0	9.9	4.60	1660
947	PHY 33	4.10	1.20	85.2	32.0	9.8	72.5	9.9	4.10	1848
1030	OA 211	4.15	1.15	84.3	32.5	9.8	71.5	9.5	4.20	1742
1009	NU 33 B	3.70	1.10	82.5	29.5	9.6	75.5	9.6	3.65	1797
996	C 143	4.05	1.20	84.9	32.5	10.0	73.5	9.6	4.05	1060
773	ACALA MAXXA	3.80	1.15	84.2	34.0	9.7	75.0	9.5	3.80	1274
900	DPL 5461	3.80	1.15	84.9	35.5	9.7	73.5	9.3	3.80	1140
1019	ALL TEX ATLAS	4.65	1.10	83.4	32.0	10.0	74.0	9.4	4.70	1496
.	LSD	0.80	0.09	1.2	2.0	0.4	3.0	0.6	0.89	620

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	16.83	3.60	0.63	457	42.0	1.99	75	54.66	4.63	2.6
380	ACALA SJ-2	18.11	3.66	0.63	.	.	.	.	.	.	.
947	PHY 33	19.07	3.54	0.40	.	.	.	.	.	.	.
1030	OA 211	19.27	3.99	0.62	.	.	.	.	.	.	.
1009	NU 33 B	17.47	3.38	0.61	512	53.3	2.17	68	53.35	4.05	2.3
996	C 143	20.53	4.24	0.65	.	.	.	.	.	.	.
773	ACALA MAXXA	19.37	3.92	0.56	504	39.5	1.94	77	48.41	3.72	2.4
900	DPL 5461	19.62	4.00	0.61	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	20.60	3.58	0.69	423	23.0	1.61	89	47.93	4.42	3.0
.	LSD	1.09	0.20	0.15	127	24.8	0.45	17	3.22	1.34	0.9

VARIETIES BY LOCATIONS
W SIDE FIELD STATION, CA

							DIGITAL FIBROGRAPH		STELOMETER	
VARIETY 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 (%)

996	C 143	1881	6.50	45.2	11.2	135	1.21	0.59	221	6.8
947	PHY 33	1877	8.00	42.1	12.8	137	1.21	0.60	227	6.0
773	ACALA MAXXA	1823	6.50	44.9	11.8	136	1.19	0.58	233	6.9
1009	NU 33 B	1811	5.50	42.0	9.1	121	1.17	0.58	195	8.3
900	DPL 5461	1792	6.50	43.8	12.6	139	1.21	0.59	223	6.5
1104	SG 747	1782	5.50	42.2	10.3	106	1.15	0.56	167	8.8
1030	OA 211	1669	6.00	46.2	10.9	131	1.19	0.57	216	6.9
1019	ALL TEX ATLAS	1538	5.50	38.1	11.1	122	1.13	0.56	199	8.2
380	ACALA SJ-2	1459	6.00	40.4	12.5	127	1.19	0.58	210	7.0
.	LSD	127	1.33	3.1	1.9	4	.	0.02	16	1.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
996	C 143	4.10	1.20	84.0	32.5	9.8	70.0	8.7	4.00	2418
947	PHY 33	4.20	1.15	84.5	32.5	9.8	72.0	8.7	4.10	2623
773	ACALA MAXXA	4.00	1.15	83.9	32.5	9.5	72.0	8.8	3.90	2224
1009	NU 33 B	3.50	1.20	83.1	29.5	9.8	74.5	8.8	3.50	2501
900	DPL 5461	4.15	1.20	83.9	33.5	9.6	73.0	8.8	4.00	2342
1104	SG 747	4.15	1.10	83.0	27.0	10.0	72.5	9.3	4.10	2524
1030	OA 211	3.95	1.20	83.8	32.0	9.5	72.0	8.4	3.85	1932
1019	ALL TEX ATLAS	3.90	1.10	83.0	30.5	10.0	72.0	8.3	3.90	2548
380	ACALA SJ-2	4.00	1.15	83.8	31.0	9.1	73.5	8.7	3.85	2244
.	LSD	0.23	0.08	1.5	1.2	0.3	3.2	0.4	0.22	455

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
996	C 143	20.95	3.98	0.77	.	.	.	.	.	.	.
947	PHY 33	18.84	3.45	0.60	.	.	.	.	.	.	.
773	ACALA MAXXA	19.67	3.87	0.69	489	39.5	1.95	76	49.95	3.95	2.5

1009	NU 33 B	17.87	3.17	0.96	526	50.3	2.13	69	50.83	3.75	2.2
900	DPL 5461	20.30	3.77	0.76	.	.	.	.	.	.	.
1104	SG 747	17.06	3.29	1.03	459	38.0	1.91	77	52.38	4.42	2.6
1030	OA 211	19.86	3.61	0.81	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	20.49	3.32	0.96	478	42.5	2.00	75	52.47	4.25	2.5
380	ACALA SJ-2	17.00	3.39	0.79	.	.	.	.	.	.	.
.	LSD	1.14	0.14	0.10	56.2	14.6	0.26	10	7.08	0.84	0.3

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1999 National Cotton Variety Test

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 HIGH QUALITY REGIONAL COTTON VARIETY TEST

OVERALL SUMMARIES FOR HIGH QUALITY REGION
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 (%)
1104	SG 747	1054	4.44	40.8	9.4	116	1.10	0.55	183	8.8
1137	PHYTOGEN PSC 355	1047	4.25	40.1	9.5	125	1.09	0.55	209	8.3
1140	DELTA PEARL	992	4.31	39.9	8.7	129	1.15	0.55	206	6.9
1149	PMX 9506-0081	989	5.06	40.9	10.0	130	1.11	0.56	211	7.0
1063	Arkot 8712	980	4.75	38.2	9.9	133	1.14	0.56	214	8.1
1143	DPX 8C09	969	4.31	39.2	8.8	129	1.12	0.55	203	7.3
1009	NU 33 B	959	4.19	38.1	8.6	121	1.10	0.54	198	8.2
1141	DP 675	953	4.38	38.6	8.9	132	1.11	0.56	219	8.3
1145	JACO 7164	953	4.50	39.9	9.9	138	1.09	0.55	225	8.0
1147	MD 84-1	945	3.94	38.8	9.2	133	1.07	0.54	225	6.9

1151	SS 9815	938	4.19	38.5	9.3	131	1.09	0.55	209	7.7
1150	PSC GA 161	926	4.56	38.0	10.4	136	1.14	0.57	217	6.9
1144	GA 569	924	4.50	39.1	9.6	130	1.08	0.54	209	7.7
1146	JACO 7165	922	4.44	40.3	10.0	137	1.08	0.56	223	7.6
1103	FIBERMAX 989	904	4.50	38.4	9.5	149	1.14	0.57	229	6.5
1138	94 L-2S	876	5.19	37.7	12.2	135	1.17	0.56	214	6.5
1142	DPX 9765	864	4.50	38.0	10.3	119	1.10	0.53	189	7.5
1148	PD 94063	858	4.31	37.9	10.3	136	1.12	0.56	208	7.2
1139	94 WD-17	832	4.88	36.8	11.3	125	1.08	0.56	201	6.9
773	ACALA MAXXA	493	4.63	39.6	10.8	148	1.12	0.56	244	7.1
.	LSD	109	0.34	1.2	0.4	5	0.02	0.01	9	0.5

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1104	SG 747	4.62	1.08	83.4	27.5	9.9	68.5	8.8	4.78	1430	18.89
1137	PHYTOGEN PSC 355	4.84	1.08	83.9	31.3	10.6	67.3	8.6	4.86	1520	21.13
1140	DELTA PEARL	4.73	1.15	83.6	29.6	9.2	70.8	7.6	4.74	1460	19.33
1149	PMX 9506-0081	4.52	1.11	83.7	30.8	9.5	69.6	7.9	4.51	1385	22.74
1063	Arkot 8712	4.47	1.13	84.0	29.8	9.9	68.8	8.3	4.55	1524	20.81
1143	DPX 8C09	4.70	1.10	83.2	29.3	9.6	71.2	7.9	4.69	1415	19.12
1009	NU 33 B	4.59	1.08	82.5	27.8	9.7	71.7	8.0	4.54	1564	20.06
1141	DP 675	4.59	1.09	83.3	32.8	10.1	71.7	8.5	4.61	1540	20.69
1145	JACO 7164	4.54	1.06	83.5	32.4	10.1	70.4	8.0	4.55	1389	21.60
1147	MD 84-1	4.68	1.04	82.6	32.9	9.8	68.6	8.9	4.78	1509	20.49
1151	SS 9815	4.55	1.08	82.9	30.5	9.9	70.7	8.4	4.65	1473	20.26
1150	PSC GA 161	4.33	1.13	83.5	31.9	9.7	71.8	8.2	4.34	1493	20.60
1144	GA 569	4.73	1.08	83.0	33.3	10.1	70.3	9.2	4.79	1415	19.87
1146	JACO 7165	4.63	1.06	83.5	33.2	10.2	68.6	8.3	4.63	1389	21.26
1103	FIBERMAX 989	4.23	1.10	83.3	33.3	9.5	69.8	8.2	4.23	1342	21.60
1138	94 L-2S	4.27	1.19	83.8	31.0	8.9	68.7	8.6	4.24	1487	20.10
1142	DPX 9765	4.65	1.09	82.8	27.7	9.6	70.3	8.4	4.67	1435	21.03
1148	PD 94063	4.41	1.13	83.5	31.3	9.7	68.0	8.2	4.34	1358	21.30
1139	94 WD-17	4.67	1.06	82.9	30.1	9.8	68.8	8.7	4.68	1408	22.34
773	ACALA MAXXA	3.85	1.10	83.7	34.6	9.6	69.8	8.0	3.75	824	19.70
.	LSD	0.23	0.03	0.8	1.1	0.3	1.7	0.4	0.25	185	1.00

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	3.40	0.63	420	27.5	1.70	85	50.86	4.72	3.0
1137	PHYTOGEN PSC 355	3.59	0.67	406	23.8	1.63	89	50.16	4.81	3.1
1140	DELTA PEARL	3.55	0.55	414	19.7	1.54	92	46.71	4.39	3.1
1149	PMX 9506-0081	3.52	0.57	430	24.0	1.63	88	47.73	4.34	2.9
1063	Arkot 8712	3.33	0.65	423	21.7	1.58	90	46.75	4.32	3.0
1143	DPX 8C09	3.36	0.45	418	20.6	1.56	91	46.85	4.39	3.1
1009	NU 33 B	3.40	0.72	436	25.9	1.67	87	48.04	4.31	2.9
1141	DP 675	3.35	0.67	432	28.6	1.72	85	49.87	4.52	2.9
1145	JACO 7164	3.50	0.66	428	24.2	1.64	88	48.13	4.39	2.9
1147	MD 84-1	3.36	0.76	410	23.6	1.62	89	49.54	4.74	3.1
1151	SS 9815	3.34	0.74	428	24.5	1.63	88	47.76	4.35	3.0
1150	PSC GA 161	3.32	0.66	455	27.5	1.71	85	47.07	4.04	2.7
1144	GA 569	3.50	0.67	418	27.3	1.69	86	50.75	4.74	3.0
1146	JACO 7165	3.47	0.68	424	25.1	1.65	87	48.99	4.51	3.0
1103	FIBERMAX 989	3.48	0.52	449	24.3	1.63	88	45.61	3.97	2.8
1138	94 L-2S	3.63	0.62	446	26.7	1.68	86	47.17	4.12	2.8
1142	DPX 9765	3.44	0.74	420	23.0	1.61	89	47.89	4.43	3.0
1148	PD 94063	3.46	0.76	442	24.9	1.64	88	46.67	4.13	2.9
1139	94 WD-17	3.61	0.49	419	24.5	1.63	88	48.71	4.53	3.0
773	ACALA MAXXA	3.88	0.56	493	35.3	1.85	80	46.87	3.70	2.5
.	LSD	0.15	0.07	20.8	5.4	0.11	4	1.89	0.27	0.2

REGION=HIGH QUALITY

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
94 L-2S	5.19	PMX 9506-0081	40.9	94 L-2S	12.2
PMX 9506-0081	5.06	SG 747	40.8	94 WD-17	11.3
94 WD-17	4.88	JACO 7165	40.3	ACALA MAXXA	10.8
Arkot 8712	4.75	PHYTOGEN PSC 355	40.1	PSC GA 161	10.4
ACALA MAXXA	4.63	DELTA PEARL	39.9	DPX 9765	10.3

PSC GA 161	4.56
FIBERMAX 989	4.50
DPX 9765	4.50
GA 569	4.50
JACO 7164	4.50
SG 747	4.44
JACO 7165	4.44
DP 675	4.38
DELTA PEARL	4.31
DPX 8C09	4.31
PD 94063	4.31
PHYTOGEN PSC 355	4.25
NU 33 B	4.19
SS 9815	4.19
MD 84-1	3.94
LSD	0.34

JACO 7164	39.9
ACALA MAXXA	39.6
DPX 8C09	39.2
GA 569	39.1
MD 84-1	38.8
DP 675	38.6
SS 9815	38.5
FIBERMAX 989	38.4
Arkot 8712	38.2
NU 33 B	38.1
DPX 9765	38.0
PSC GA 161	38.0
PD 94063	37.9
94 L-2S	37.7
94 WD-17	36.8
LSD	1.2

PD 94063	10.3
PMX 9506-0081	10.0
JACO 7165	10.0
Arkot 8712	9.9
JACO 7164	9.9
GA 569	9.6
FIBERMAX 989	9.5
PHYTOGEN PSC 355	9.5
SG 747	9.4
SS 9815	9.3
MD 84-1	9.2
DP 675	8.9
DPX 8C09	8.8
DELTA PEARL	8.7
NU 33 B	8.6
LSD	0.4

2.5% S.L. (INCHES)	
94 L-2S	1.19
DELTA PEARL	1.15
PD 94063	1.13
PSC GA 161	1.13
Arkot 8712	1.13
PMX 9506-0081	1.11
ACALA MAXXA	1.10
DPX 8C09	1.10
FIBERMAX 989	1.10
DP 675	1.09
DPX 9765	1.09
PHYTOGEN PSC 355	1.08
NU 33 B	1.08
GA 569	1.08
SG 747	1.08
SS 9815	1.08
94 WD-17	1.06
JACO 7165	1.06
JACO 7164	1.06
MD 84-1	1.04

UR (PERCENT)	
Arkot 8712	84.0
PHYTOGEN PSC 355	83.9
94 L-2S	83.8
ACALA MAXXA	83.7
PMX 9506-0081	83.7
DELTA PEARL	83.6
JACO 7164	83.5
JACO 7165	83.5
PD 94063	83.5
PSC GA 161	83.5
SG 747	83.4
DP 675	83.3
FIBERMAX 989	83.3
DPX 8C09	83.2
GA 569	83.0
94 WD-17	82.9
SS 9815	82.9
DPX 9765	82.8
MD 84-1	82.6
NU 33 B	82.5

STRENGTH (G/TEX)	
ACALA MAXXA	34.6
GA 569	33.3
FIBERMAX 989	33.3
JACO 7165	33.2
MD 84-1	32.9
DP 675	32.8
JACO 7164	32.4
PSC GA 161	31.9
PD 94063	31.3
PHYTOGEN PSC 355	31.3
94 L-2S	31.0
PMX 9506-0081	30.8
SS 9815	30.5
94 WD-17	30.1
Arkot 8712	29.8
DELTA PEARL	29.6
DPX 8C09	29.3
NU 33 B	27.8
DPX 9765	27.7
SG 747	27.5

LSD	0.03

LSD	0.8

LSD	1.1

E	
PHYTOGEN PSC 355	10.6
JACO 7165	10.2
DP 675	10.1
GA 569	10.1
JACO 7164	10.1
SG 747	9.9
SS 9815	9.9
Arkot 8712	9.9
MD 84-1	9.8
94 WD-17	9.8
PSC GA 161	9.7
PD 94063	9.7
NU 33 B	9.7
DPX 9765	9.6
ACALA MAXXA	9.6
DPX 8C09	9.6
FIBERMAX 989	9.5
PMX 9506-0081	9.5
DELTA PEARL	9.2
94 L-2S	8.9
LSD	0.3

MICRONAIRE (SL-HVI)	
PHYTOGEN PSC 355	4.86
GA 569	4.79
SG 747	4.78
MD 84-1	4.78
DELTA PEARL	4.74
DPX 8C09	4.69
94 WD-17	4.68
DPX 9765	4.67
SS 9815	4.65
JACO 7165	4.63
DP 675	4.61
JACO 7164	4.55
Arkot 8712	4.55
NU 33 B	4.54
PMX 9506-0081	4.51
PSC GA 161	4.34
PD 94063	4.34
94 L-2S	4.24
FIBERMAX 989	4.23
ACALA MAXXA	3.75
LSD	0.25

COLORIMETER - Rd	
PSC GA 161	71.8
DP 675	71.7
NU 33 B	71.7
DPX 8C09	71.2
DELTA PEARL	70.8
SS 9815	70.7
JACO 7164	70.4
GA 569	70.3
DPX 9765	70.3
FIBERMAX 989	69.8
ACALA MAXXA	69.8
PMX 9506-0081	69.6
94 WD-17	68.8
Arkot 8712	68.8
94 L-2S	68.7
MD 84-1	68.6
JACO 7165	68.6
SG 747	68.5
PD 94063	68.0
PHYTOGEN PSC 355	67.3
LSD	1.7

COLORIMETER - b	
GA 569	9.2
MD 84-1	8.9
SG 747	8.8
94 WD-17	8.7
94 L-2S	8.6
PHYTOGEN PSC 355	8.6
DP 675	8.5
DPX 9765	8.4

MICRONAIRE	
PHYTOGEN PSC 355	4.84
GA 569	4.73
DELTA PEARL	4.73
DPX 8C09	4.70
MD 84-1	4.68
94 WD-17	4.67
DPX 9765	4.65
JACO 7165	4.63

STELOMETER - E1	
SG 747	8.8
DP 675	8.3
PHYTOGEN PSC 355	8.3
NU 33 B	8.2
Arkot 8712	8.1
JACO 7164	8.0
SS 9815	7.7
GA 569	7.7

SS 9815	8.4	SG 747	4.62	JACO 7165	7.6
JACO 7165	8.3	DP 675	4.59	DPX 9765	7.5
Arkot 8712	8.3	NU 33 B	4.59	DPX 8C09	7.3
PSC GA 161	8.2	SS 9815	4.55	PD 94063	7.2
PD 94063	8.2	JACO 7164	4.54	ACALA MAXXA	7.1
FIBERMAX 989	8.2	PMX 9506-0081	4.52	PMX 9506-0081	7.0
ACALA MAXXA	8.0	Arkot 8712	4.47	DELTA PEARL	6.9
NU 33 B	8.0	PD 94063	4.41	94 WD-17	6.9
JACO 7164	8.0	PSC GA 161	4.33	MD 84-1	6.9
DPX 8C09	7.9	94 L-2S	4.27	PSC GA 161	6.9
PMX 9506-0081	7.9	FIBERMAX 989	4.23	FIBERMAX 989	6.5
DELTA PEARL	7.6	ACALA MAXXA	3.85	94 L-2S	6.5
LSD	0.4	LSD	0.23	LSD	0.5

STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
ACALA MAXXA	244	PSC GA 161	0.57	94 L-2S	1.17
FIBERMAX 989	229	FIBERMAX 989	0.57	DELTA PEARL	1.15
MD 84-1	225	94 L-2S	0.56	Arkot 8712	1.14
JACO 7164	225	Arkot 8712	0.56	PSC GA 161	1.14
JACO 7165	223	ACALA MAXXA	0.56	FIBERMAX 989	1.14
DP 675	219	JACO 7165	0.56	PD 94063	1.12
PSC GA 161	217	PMX 9506-0081	0.56	DPX 8C09	1.12
Arkot 8712	214	DP 675	0.56	ACALA MAXXA	1.12
94 L-2S	214	PD 94063	0.56	PMX 9506-0081	1.11
PMX 9506-0081	211	94 WD-17	0.56	DP 675	1.11
GA 569	209	JACO 7164	0.55	NU 33 B	1.10
PHYTOGEN PSC 355	209	DELTA PEARL	0.55	DPX 9765	1.10
SS 9815	209	PHYTOGEN PSC 355	0.55	SG 747	1.10
PD 94063	208	DPX 8C09	0.55	PHYTOGEN PSC 355	1.09
DELTA PEARL	206	SG 747	0.55	SS 9815	1.09
DPX 8C09	203	SS 9815	0.55	JACO 7164	1.09
94 WD-17	201	NU 33 B	0.54	94 WD-17	1.08
NU 33 B	198	MD 84-1	0.54	JACO 7165	1.08
DPX 9765	189	GA 569	0.54	GA 569	1.08
SG 747	183	DPX 9765	0.53	MD 84-1	1.07
LSD	9	LSD	0.01	LSD	0.02

YARN TENACITY	
FIBERMAX 989	149
ACALA MAXXA	148
JACO 7164	138
JACO 7165	137
PD 94063	136
PSC GA 161	136
94 L-2S	135
MD 84-1	133
Arkot 8712	133
DP 675	132
SS 9815	131
PMX 9506-0081	130
GA 569	130
DELTA PEARL	129
DPX 8C09	129
PHYTOGEN PSC 355	125
94 WD-17	125
NU 33 B	121
DPX 9765	119
SG 747	116
LSD	5

AREALOMETER - A (mm2/mm3)	
ACALA MAXXA	493
PSC GA 161	455
FIBERMAX 989	449
94 L-2S	446
PD 94063	442
NU 33 B	436
DP 675	432
PMX 9506-0081	430
SS 9815	428
JACO 7164	428
JACO 7165	424
Arkot 8712	423
DPX 9765	420
SG 747	420
94 WD-17	419
GA 569	418
DPX 8C09	418
DELTA PEARL	414
MD 84-1	410
PHYTOGEN PSC 355	406
LSD	20.8

AREALOMETER - D (mm2/mm3)	
ACALA MAXXA	35.3
DP 675	28.6
PSC GA 161	27.5
SG 747	27.5
GA 569	27.3
94 L-2S	26.7
NU 33 B	25.9
JACO 7165	25.1
PD 94063	24.9
94 WD-17	24.5
SS 9815	24.5
FIBERMAX 989	24.3
JACO 7164	24.2
PMX 9506-0081	24.0
PHYTOGEN PSC 355	23.8
MD 84-1	23.6
DPX 9765	23.0
Arkot 8712	21.7
DPX 8C09	20.6
DELTA PEARL	19.7
LSD	5.4

AREALOMETER - I	
ACALA MAXXA	1.85
DP 675	1.72
PSC GA 161	1.71
SG 747	1.70
GA 569	1.69
94 L-2S	1.68
NU 33 B	1.67
JACO 7165	1.65
PD 94063	1.64
JACO 7164	1.64
SS 9815	1.63

AREALOMETER - M (PERCENT)	
DELTA PEARL	92
DPX 8C09	91
Arkot 8712	90
DPX 9765	89
MD 84-1	89
PHYTOGEN PSC 355	89
94 WD-17	88
FIBERMAX 989	88
PMX 9506-0081	88
SS 9815	88
JACO 7164	88

AREALOMETER - p (Microns)	
SG 747	50.86
GA 569	50.75
PHYTOGEN PSC 355	50.16
DP 675	49.87
MD 84-1	49.54
JACO 7165	48.99
94 WD-17	48.71
JACO 7164	48.13
NU 33 B	48.04
DPX 9765	47.89
SS 9815	47.76

FIBERMAX 989	1.63
PMX 9506-0081	1.63
94 WD-17	1.63
PHYTOGEN PSC 355	1.63
MD 84-1	1.62
DPX 9765	1.61
Arkot 8712	1.58
DPX 8C09	1.56
DELTA PEARL	1.54
LSD	0.11

PD 94063	88
JACO 7165	87
NU 33 B	87
94 L-2S	86
GA 569	86
SG 747	85
PSC GA 161	85
DP 675	85
ACALA MAXXA	80
LSD	4

PMX 9506-0081	47.73
94 L-2S	47.17
PSC GA 161	47.07
ACALA MAXXA	46.87
DPX 8C09	46.85
Arkot 8712	46.75
DELTA PEARL	46.71
PD 94063	46.67
FIBERMAX 989	45.61
LSD	1.89

AREALOMETER - w (MG/INCH)

PHYTOGEN PSC 355	4.81
GA 569	4.74
MD 84-1	4.74
SG 747	4.72
94 WD-17	4.53
DP 675	4.52
JACO 7165	4.51
DPX 9765	4.43
JACO 7164	4.39
DPX 8C09	4.39
DELTA PEARL	4.39
SS 9815	4.35
PMX 9506-0081	4.34
Arkot 8712	4.32
NU 33 B	4.31
PD 94063	4.13
94 L-2S	4.12
PSC GA 161	4.04
FIBERMAX 989	3.97
ACALA MAXXA	3.70
LSD	0.27

AREALOMETER - t (MICRONS)

PHYTOGEN PSC 355	3.1
MD 84-1	3.1
DELTA PEARL	3.1
DPX 8C09	3.1
Arkot 8712	3.0
94 WD-17	3.0
DPX 9765	3.0
GA 569	3.0
SG 747	3.0
JACO 7165	3.0
SS 9815	3.0
JACO 7164	2.9
PMX 9506-0081	2.9
DP 675	2.9
NU 33 B	2.9
PD 94063	2.9
FIBERMAX 989	2.8
94 L-2S	2.8
PSC GA 161	2.7
ACALA MAXXA	2.5
LSD	0.2

SEED YIELD (LB/ACRE)

NU 33 B	1564
DP 675	1540
Arkot 8712	1524
PHYTOGEN PSC 355	1520
MD 84-1	1509
PSC GA 161	1493
94 L-2S	1487
SS 9815	1473
DELTA PEARL	1460
DPX 9765	1435
SG 747	1430
DPX 8C09	1415
GA 569	1415
94 WD-17	1408
JACO 7164	1389
JACO 7165	1389
PMX 9506-0081	1385
PD 94063	1358
FIBERMAX 989	1342
ACALA MAXXA	824
LSD	185

OIL (PERCENT)

NITROGEN (PERCENT)

FREE GOSSYPOL (PERCENT)

PMX 9506-0081	22.74	ACALA MAXXA	3.88	PD 94063	0.76
94 WD-17	22.34	94 L-2S	3.63	MD 84-1	0.76
JACO 7164	21.60	94 WD-17	3.61	DPX 9765	0.74
FIBERMAX 989	21.60	PHYTOGEN PSC 355	3.59	SS 9815	0.74
PD 94063	21.30	DELTA PEARL	3.55	NU 33 B	0.72
JACO 7165	21.26	PMX 9506-0081	3.52	JACO 7165	0.68
PHYTOGEN PSC 355	21.13	JACO 7164	3.50	DP 675	0.67
DPX 9765	21.03	GA 569	3.50	PHYTOGEN PSC 355	0.67
Arkot 8712	20.81	FIBERMAX 989	3.48	GA 569	0.67
DP 675	20.69	JACO 7165	3.47	PSC GA 161	0.66
PSC GA 161	20.60	PD 94063	3.46	JACO 7164	0.66
MD 84-1	20.49	DPX 9765	3.44	Arkot 8712	0.65
SS 9815	20.26	NU 33 B	3.40	SG 747	0.63
94 L-2S	20.10	SG 747	3.40	94 L-2S	0.62
NU 33 B	20.06	DPX 8C09	3.36	PMX 9506-0081	0.57
GA 569	19.87	MD 84-1	3.36	ACALA MAXXA	0.56
ACALA MAXXA	19.70	DP 675	3.35	DELTA PEARL	0.55
DELTA PEARL	19.33	SS 9815	3.34	FIBERMAX 989	0.52
DPX 8C09	19.12	Arkot 8712	3.33	94 WD-17	0.49
SG 747	18.89	PSC GA 161	3.32	DPX 8C09	0.45
LSD	1.00	LSD	0.15	LSD	0.07

VARIETIES COMBINING LOCATIONS — HIGH QUALITY REGION

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 (%)
COLLEGE STATION, TX		1412	6.08	39.1	9.3	124	1.12	0.55	186	7.1
TIFTON, GA		1194	4.95	.	10.2	.	.	.	.	.
BOSSIER CITY, LA		1184	4.73	37.9	9.9	140	1.13	0.56	225	7.1
KEISER, AR		1050	3.83	36.6	10.8	136	1.18	0.59	215	7.8
STONEVILLE, MS		977	4.13	37.8	9.8	127	1.11	0.55	209	7.5
ROCKY MOUNT, NC		648	4.08	40.9	9.8	.	.	.	.	.
BELLE MINA, AL		547	3.95	38.2	9.3	133	1.07	0.52	210	7.8
FLORENCE, SC		339	4.20	42.0	9.5	129	1.05	0.54	227	7.6

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	SEED MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
COLLEGE STATION, TX		4.75	1.09	83.1	28.5	9.5	68.6	7.1	4.77	2176	21.21
TIFTON, GA		.	.	.	.	.	.	.	.	.	.
BOSSIER CITY, LA		4.64	1.12	83.8	32.0	9.6	71.2	7.6	4.59	1895	19.05
KEISER, AR		4.23	1.17	85.5	30.8	9.9	72.2	8.4	4.23	1802	20.91
STONEVILLE, MS		4.52	1.10	83.1	31.6	9.9	69.2	8.7	4.45	1633	21.46
ROCKY MOUNT, NC		.	.	.	.	.	.	.	.	937	.
BELLE MINA, AL		3.83	1.08	82.1	29.9	9.4	72.1	9.5	3.79	929	18.00
FLORENCE, SC		5.21	1.03	82.4	33.6	10.2	65.4	8.8	5.45	555	23.25

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
COLLEGE STATION, TX		3.05	0.74	415	18.6	1.51	93	45.81	4.29	3.1
TIFTON, GA		.	.	.	.	.	.	.	.	.
BOSSIER CITY, LA		3.52	0.61	428	23.4	1.62	89	47.63	4.32	2.9
KEISER, AR		3.31	0.77	454	31.6	1.78	82	49.29	4.22	2.7
STONEVILLE, MS		3.22	0.67	434	24.5	1.65	88	47.67	4.26	2.9
ROCKY MOUNT, NC		.	.	.	.	.	.	.	.	.
BELLE MINA, AL		3.70	0.50	487	37.8	1.91	78	49.15	3.92	2.5
FLORENCE, SC		4.04	0.53	366	14.8	1.43	96	49.09	5.21	3.6

VARIETIES COMBINING LOCATIONS — HIGH QUALITY SUB-REGION

COMBINING LOCATIONS: BOSSIER CITY, LA - COLLEGE STATION, TX - KEISER, AR PORTAGEVILLE, AR - STONEVILLE, MS

VARIETY CODE	VARIETY NAME	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)	(%)
1137	PHYTOGEN PSC 355	1335	4.50	39.9	9.4	125	1.11	0.56	207	7.9
1104	SG 747	1327	4.63	40.4	9.4	116	1.12	0.56	179	8.8
1149	PMX 9506-0081	1313	5.38	40.0	10.0	132	1.13	0.57	208	6.8
1140	DELTA PEARL	1281	4.38	39.5	8.6	129	1.19	0.56	202	6.8
1143	DPX 8C09	1261	4.38	39.1	8.7	128	1.14	0.56	198	7.4
1063	Arkot 8712	1224	5.00	37.3	10.0	131	1.17	0.57	213	8.0
1147	MD 84-1	1202	4.13	37.5	9.2	136	1.10	0.55	224	6.6
1151	SS 9815	1191	4.38	37.5	9.1	131	1.12	0.56	203	7.6
1009	NU 33 B	1190	4.25	36.8	8.7	120	1.12	0.55	192	8.1
1145	JACO 7164	1186	4.75	38.2	10.2	139	1.11	0.57	218	8.0
1144	GA 569	1186	4.75	38.4	9.7	131	1.10	0.55	209	7.6
1141	DP 675	1181	4.50	37.2	9.1	132	1.14	0.57	212	8.4
1146	JACO 7165	1169	4.50	39.0	10.3	139	1.11	0.58	221	7.3
1138	94 L-2S	1133	5.63	36.1	12.4	137	1.20	0.58	216	6.5
1103	FIBERMAX 989	1108	4.63	37.8	9.8	151	1.16	0.58	228	6.4
1150	PSC GA 161	1107	4.75	36.6	10.6	137	1.16	0.58	213	6.9
1148	PD 94063	1050	4.50	36.3	10.5	136	1.14	0.56	203	7.1
1142	DPX 9765	1035	4.75	36.5	10.5	120	1.12	0.55	188	7.3
1139	94 WD-17	1027	5.25	34.8	11.5	125	1.10	0.56	196	6.8
773	ACALA MAXXA	610	4.75	38.6	11.1	146	1.14	0.57	241	7.1
.	LSD	139	0.59	1.0	0.5	5	0.02	0.01	11	0.6

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	SEED MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
1137	PHYTOGEN PSC 355	4.98	1.10	84.2	30.9	10.5	68.3	8.2	4.94	1978	21.46
1104	SG 747	4.68	1.09	84.1	27.3	9.9	69.0	8.5	4.80	1836	18.80
1149	PMX 9506-0081	4.49	1.13	84.2	30.4	9.5	70.3	7.4	4.43	1929	23.23
1140	DELTA PEARL	4.61	1.18	84.1	29.3	9.2	70.9	7.2	4.61	2001	19.10
1143	DPX 8C09	4.65	1.13	83.8	29.0	9.6	71.9	7.4	4.58	1897	18.44
1063	Arkot 8712	4.60	1.15	84.9	29.3	9.8	68.8	7.7	4.63	2021	21.35
1147	MD 84-1	4.76	1.06	83.1	32.8	9.9	69.1	8.7	4.78	1988	20.66
1151	SS 9815	4.56	1.10	83.2	30.1	9.8	71.0	7.9	4.63	1942	20.18
1009	NU 33 B	4.53	1.11	83.0	27.4	9.5	72.4	7.7	4.45	2078	19.64

1145	JACO 7164	4.51	1.08	84.2	32.0	10.1	71.0	7.6	4.50	1846	21.70
1144	GA 569	4.74	1.09	83.4	33.0	10.0	70.9	9.0	4.78	1883	19.78
1141	DP 675	4.53	1.13	84.1	31.9	10.0	72.8	8.1	4.45	2001	20.62
1146	JACO 7165	4.51	1.09	84.2	33.3	10.3	68.4	7.8	4.51	1859	21.16
1138	94 L-2S	4.33	1.23	84.8	31.3	9.1	69.6	8.0	4.26	2098	20.27
1103	FIBERMAX 989	4.20	1.13	83.9	33.4	9.5	70.5	7.9	4.15	1724	21.29
1150	PSC GA 161	4.26	1.15	84.1	31.3	9.7	72.1	7.8	4.24	1945	20.63
1148	PD 94063	4.54	1.15	83.7	30.8	9.7	68.4	7.7	4.40	1742	21.69
1142	DPX 9765	4.70	1.11	83.5	27.8	9.6	70.9	8.0	4.66	1896	21.05
1139	94 WD-17	4.75	1.08	83.2	29.4	9.7	69.6	8.3	4.76	1871	22.62
773	ACALA MAXXA	3.80	1.11	83.8	34.3	9.5	70.3	7.7	3.70	994	19.47
.	LSD	0.24	0.04	1.0	1.3	0.3	2.2	0.4	0.28	243	1.22

				AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1137	PHYTOGEN PSC 355	3.42	0.75	404	20.9	1.57	91	48.79	4.68	3.1
1104	SG 747	3.23	0.70	421	27.2	1.70	85	50.77	4.67	2.9
1149	PMX 9506-0081	3.33	0.65	437	23.5	1.62	88	46.63	4.13	2.9
1140	DELTA PEARL	3.35	0.59	422	19.4	1.53	92	45.48	4.17	3.0
1143	DPX 8C09	3.13	0.46	426	20.9	1.57	91	46.12	4.20	3.0
1063	Arkot 8712	3.16	0.69	415	18.9	1.52	92	45.99	4.28	3.1
1147	MD 84-1	3.17	0.84	406	21.9	1.59	90	49.02	4.69	3.1
1151	SS 9815	3.22	0.83	432	24.3	1.64	88	47.49	4.26	2.9
1009	NU 33 B	3.24	0.78	441	26.4	1.68	86	47.83	4.20	2.8
1145	JACO 7164	3.32	0.72	430	23.8	1.63	88	47.67	4.30	2.9
1144	GA 569	3.34	0.75	427	27.8	1.71	85	50.19	4.56	2.9
1141	DP 675	3.11	0.74	444	29.7	1.74	84	48.88	4.28	2.8
1146	JACO 7165	3.25	0.73	428	26.0	1.67	87	49.04	4.45	2.9
1138	94 L-2S	3.48	0.72	441	25.1	1.66	87	47.30	4.15	2.8
1103	FIBERMAX 989	3.28	0.54	459	25.6	1.66	87	45.31	3.81	2.7
1150	PSC GA 161	3.10	0.74	458	27.0	1.70	86	46.57	3.94	2.7
1148	PD 94063	3.20	0.81	438	23.5	1.62	88	46.61	4.13	2.9
1142	DPX 9765	3.21	0.80	412	20.4	1.56	91	47.36	4.45	3.1
1139	94 WD-17	3.34	0.54	412	21.4	1.58	91	47.95	4.50	3.1
773	ACALA MAXXA	3.71	0.58	503	37.3	1.89	78	46.98	3.62	2.4
.	LSD	0.15	0.07	24.3	6.5	0.13	5	2.32	0.29	0.2

VARIETIES COMBINING LOCATIONS HIGH QUALITY SUB-REGION

COMBINING LOCATIONS: TIFTON, GA - BELLE MINA, AL - FLORENCE, SC - ROCKY MOUNT, NC

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 (%)
1104	SG 747	780	4.25	41.3	9.3	117	1.06	0.53	191	8.8
1137	PHYTOGEN PSC 355	760	4.00	40.5	9.6	126	1.05	0.53	214	9.1
1150	PSC GA 161	745	4.38	39.9	10.3	136	1.08	0.55	225	6.9
1063	Arkot 8712	737	4.50	39.4	9.8	135	1.08	0.54	217	8.3
1009	NU 33 B	728	4.13	39.8	8.6	123	1.07	0.53	209	8.3
1141	DP 675	724	4.25	40.4	8.7	132	1.04	0.53	233	8.2
1145	JACO 7164	719	4.25	42.1	9.6	138	1.04	0.53	238	8.0
1140	DELTA PEARL	702	4.25	40.5	8.7	130	1.09	0.54	216	7.2
1103	FIBERMAX 989	700	4.38	39.1	9.3	144	1.08	0.54	232	6.7
1142	DPX 9765	693	4.25	40.1	10.1	119	1.06	0.51	191	7.8
1147	MD 84-1	688	3.75	40.5	9.3	128	1.03	0.52	228	7.5
1151	SS 9815	686	4.00	39.8	9.4	131	1.04	0.53	222	8.1
1143	DPX 8C09	678	4.25	39.3	8.8	129	1.07	0.54	213	7.2
1146	JACO 7165	675	4.38	42.1	9.6	133	1.03	0.53	225	8.2
1148	PD 94063	667	4.13	40.0	10.1	138	1.09	0.54	220	7.4
1149	PMX 9506-0081	664	4.75	42.0	9.9	126	1.06	0.53	218	7.3
1144	GA 569	662	4.25	40.1	9.5	128	1.04	0.52	210	7.9
1139	94 WD-17	637	4.50	39.5	11.0	127	1.05	0.54	211	7.3
1138	94 L-2S	619	4.75	40.0	11.9	131	1.11	0.54	208	6.6
773	ACALA MAXXA	377	4.50	41.1	10.6	152	1.07	0.55	249	7.2
.	LSD	157	0.37	2.3	0.5	9	0.04	0.03	19	1.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1104	SG 747	4.53	1.05	82.2	28.0	10.0	67.5	9.6	4.75	889	19.07
1137	PHYTOGEN PSC 355	4.58	1.05	83.3	32.0	10.7	65.3	9.3	4.70	909	20.47
1150	PSC GA 161	4.45	1.08	82.3	33.3	9.8	71.3	9.1	4.55	892	20.54
1063	Arkot 8712	4.23	1.08	82.1	31.0	9.9	69.0	9.4	4.40	861	19.73
1009	NU 33 B	4.73	1.03	81.5	28.8	10.0	70.3	8.8	4.73	880	20.90
1141	DP 675	4.73	1.03	81.8	34.5	10.5	69.5	9.2	4.93	925	20.84
1145	JACO 7164	4.60	1.03	82.2	33.3	10.0	69.3	8.9	4.65	780	21.41
1140	DELTA PEARL	4.95	1.10	82.5	30.3	9.1	70.5	8.3	5.00	739	19.79
1103	FIBERMAX 989	4.30	1.05	82.1	33.0	9.5	68.5	8.6	4.40	833	22.21
1142	DPX 9765	4.55	1.05	81.4	27.5	9.7	69.3	9.3	4.68	822	20.99
1147	MD 84-1	4.50	1.00	81.5	33.3	9.7	67.5	9.4	4.78	870	20.14
1151	SS 9815	4.53	1.03	82.3	31.3	10.0	70.0	9.2	4.70	847	20.41
1143	DPX 8C09	4.80	1.05	82.1	30.0	9.6	69.8	8.9	4.93	774	20.48
1146	JACO 7165	4.88	1.00	82.2	33.0	10.1	69.0	9.4	4.88	762	21.46
1148	PD 94063	4.15	1.10	83.0	32.5	9.7	67.3	9.1	4.23	847	20.50
1149	PMX 9506-0081	4.58	1.08	82.6	31.8	9.6	68.3	9.0	4.68	659	21.76
1144	GA 569	4.73	1.05	82.2	34.0	10.4	69.3	9.7	4.83	791	20.06
1139	94 WD-17	4.50	1.03	82.4	31.5	9.9	67.3	9.4	4.53	791	21.79
1138	94 L-2S	4.15	1.13	81.9	30.5	8.7	66.8	9.9	4.20	672	19.78
773	ACALA MAXXA	3.95	1.08	83.5	35.3	9.7	69.0	8.7	3.85	597	20.18
.	LSD	0.43	0.05	1.3	2.2	0.6	2.8	0.5	0.48	189	1.42

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	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)
1104	SG 747	3.73	0.49	418	28.0	1.70	86	51.04	4.83	3.1
1137	PHYTOGEN PSC 355	3.92	0.51	412	29.6	1.74	85	52.91	5.08	3.1
1150	PSC GA 161	3.77	0.52	450	28.5	1.72	85	48.07	4.23	2.8
1063	Arkot 8712	3.69	0.59	438	27.3	1.68	86	48.26	4.39	3.0
1009	NU 33 B	3.74	0.62	427	24.9	1.64	88	48.47	4.52	3.0

1141	DP 675	3.85	0.55	409	26.4	1.68	87	51.84	5.00	3.1
1145	JACO 7164	3.87	0.53	422	24.9	1.65	88	49.06	4.57	3.0
1140	DELTA PEARL	3.96	0.46	397	20.4	1.56	91	49.17	4.82	3.2
1103	FIBERMAX 989	3.89	0.48	427	21.8	1.57	90	46.20	4.28	3.1
1142	DPX 9765	3.90	0.61	436	28.1	1.71	85	48.97	4.39	2.9
1147	MD 84-1	3.75	0.59	419	27.0	1.68	86	50.59	4.82	3.1
1151	SS 9815	3.58	0.56	422	24.9	1.63	89	48.29	4.53	3.1
1143	DPX 8C09	3.84	0.42	404	20.1	1.54	91	48.32	4.77	3.3
1146	JACO 7165	3.91	0.56	416	23.4	1.62	89	48.91	4.63	3.1
1148	PD 94063	3.98	0.65	451	27.6	1.69	86	46.79	4.12	2.9
1149	PMX 9506-0081	3.89	0.43	415	25.1	1.65	88	49.93	4.76	3.1
1144	GA 569	3.81	0.50	402	26.1	1.66	87	51.85	5.10	3.2
1139	94 WD-17	4.16	0.37	433	30.8	1.74	84	50.23	4.58	3.0
1138	94 L-2S	3.95	0.43	455	29.8	1.71	85	46.92	4.07	2.9
773	ACALA MAXXA	4.23	0.53	474	31.4	1.77	83	46.65	3.85	2.7
.	LSD	0.35	0.13	32.2	9.5	0.18	7	3.63	0.53	0.3

VARIETIES BY LOCATIONS
COLLEGE STATION, TX

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 (%)
1140	DELTA PEARL	1743	5.50	40.8	8.1	116	1.16	0.55	184	6.7
1147	MD 84-1	1642	5.00	38.8	8.7	130	1.07	0.54	195	6.3
1149	PMX 9506-0081	1587	7.00	42.0	9.0	126	1.11	0.55	176	6.9
1144	GA 569	1529	6.00	40.0	8.9	122	1.08	0.54	192	7.3
1137	PHYTOGEN PSC 355	1491	5.50	40.1	8.8	122	1.11	0.55	187	7.7
1104	SG 747	1481	6.00	42.2	8.6	105	1.07	0.53	161	7.9
1103	FIBERMAX 989	1480	6.00	38.3	9.5	147	1.15	0.58	199	6.0
1143	DPX 8C09	1479	5.50	41.5	8.2	122	1.13	0.54	171	7.1
1141	DP 675	1474	6.00	37.6	8.5	124	1.14	0.57	197	8.1
1145	JACO 7164	1432	6.00	40.2	9.6	131	1.09	0.56	195	7.2
1138	94 L-2S	1421	7.00	37.3	12.0	127	1.21	0.58	198	6.4
1009	NU 33 B	1390	5.50	37.9	8.0	110	1.12	0.54	168	7.8
1063	Arkot 8712	1376	7.00	38.4	9.8	122	1.17	0.57	182	7.4
1148	PD 94063	1374	6.00	38.9	9.7	127	1.12	0.55	174	7.2

1150	PSC GA 161	1374	6.00	38.6	9.4	131	1.14	0.56	194	6.7
1146	JACO 7165	1357	5.50	40.5	9.7	129	1.08	0.57	195	7.4
1139	94 WD-17	1320	7.50	35.9	11.2	114	1.09	0.55	178	6.1
1151	SS 9815	1296	5.50	38.1	8.8	122	1.12	0.56	181	7.2
1142	DPX 9765	1149	6.00	37.5	9.5	114	1.10	0.52	167	7.2
773	ACALA MAXXA	847	7.00	38.8	10.9	144	1.15	0.57	219	7.0
.	LSD	315	0.88	2.0	0.5	8	0.03	0.02	14	0.9

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1140	DELTA PEARL	4.70	1.15	82.0	26.5	8.8	71.0	6.4	4.80	2642
1147	MD 84-1	5.05	1.05	82.6	29.5	9.7	69.5	8.1	5.15	2652
1149	PMX 9506-0081	4.45	1.10	82.9	28.0	9.2	68.5	6.5	4.35	2105
1144	GA 569	5.20	1.05	83.0	31.0	10.0	71.5	8.7	5.30	2245
1137	PHYTOGEN PSC 355	5.00	1.10	82.9	28.5	10.0	65.5	7.9	4.80	2135
1104	SG 747	4.85	1.00	83.4	25.0	9.7	66.5	7.7	4.90	1873
1103	FIBERMAX 989	4.40	1.10	83.7	30.0	9.1	69.0	7.0	4.45	2032
1143	DPX 8C09	5.00	1.10	83.4	27.0	9.4	70.0	6.4	5.05	1966
1141	DP 675	4.75	1.10	84.3	31.0	9.9	71.0	7.4	4.70	2384
1145	JACO 7164	4.80	1.05	83.4	30.0	10.0	69.5	6.6	5.00	2249
1138	94 L-2S	4.40	1.20	84.1	29.5	8.9	67.5	6.6	4.35	2416
1009	NU 33 B	4.90	1.10	82.1	26.0	9.4	71.5	6.7	4.75	2496
1063	Arkot 8712	4.70	1.10	83.8	26.5	9.5	67.5	6.9	4.90	2064
1148	PD 94063	4.85	1.10	82.4	27.5	9.5	63.5	7.0	4.75	1966
1150	PSC GA 161	4.55	1.10	83.3	30.0	9.7	69.0	7.1	4.40	2264
1146	JACO 7165	5.05	1.05	83.7	30.5	10.0	65.0	6.8	5.05	2212
1139	94 WD-17	5.00	1.05	82.8	27.0	9.5	67.5	7.2	5.15	2271
1151	SS 9815	4.85	1.10	83.4	28.5	9.6	71.0	7.5	5.05	2061
1142	DPX 9765	4.80	1.05	81.1	25.0	9.5	71.0	7.4	4.95	2134
773	ACALA MAXXA	3.75	1.10	84.0	32.5	9.2	66.5	6.2	3.60	1353
.	LSD	0.39	0.09	1.6	2.2	0.3	3.5	0.7	0.34	823

----------AREALOMETER DATA----------

FREE

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	GOSSYPOL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1140	DELTA PEARL	17.72	3.00	0.62	413	11.0	1.33	100	40.54	3.81	3.3
1147	MD 84-1	22.26	3.00	0.92	389	16.8	1.48	94	47.66	4.74	3.3
1149	PMX 9506-0081	24.02	3.03	0.70	440	24.3	1.65	88	46.97	4.13	2.8
1144	GA 569	20.19	3.18	0.77	396	19.3	1.53	92	48.56	4.75	3.2
1137	PHYTOGEN PSC 355	21.76	3.22	0.75	410	21.3	1.58	90	48.45	4.58	3.1
1104	SG 747	18.57	2.95	0.79	411	21.5	1.59	90	48.37	4.55	3.1
1103	FIBERMAX 989	21.79	3.07	0.56	439	15.3	1.44	96	41.15	3.62	3.0
1143	DPX 8C09	18.74	2.85	0.44	395	13.3	1.39	97	44.16	4.32	3.3
1141	DP 675	20.59	2.78	0.73	415	18.3	1.51	93	45.58	4.25	3.1
1145	JACO 7164	23.47	3.29	0.79	407	20.5	1.57	91	48.28	4.60	3.1
1138	94 L-2S	20.78	3.13	0.86	443	23.3	1.62	89	46.03	4.02	2.8
1009	NU 33 B	19.18	3.16	0.84	417	17.5	1.49	94	44.95	4.17	3.1
1063	Arkot 8712	21.24	2.86	0.72	403	12.8	1.38	98	42.81	4.11	3.3
1148	PD 94063	23.11	2.94	0.85	414	17.8	1.50	94	45.56	4.29	3.1
1150	PSC GA 161	22.72	2.97	0.83	431	24.8	1.66	87	48.18	4.33	2.9
1146	JACO 7165	22.34	2.89	0.83	385	17.3	1.49	94	48.38	4.87	3.4
1139	94 WD-17	22.63	3.06	0.61	395	13.3	1.39	98	44.20	4.34	3.3
1151	SS 9815	21.87	3.15	0.86	404	16.5	1.47	94	45.73	4.38	3.2
1142	DPX 9765	21.35	2.96	0.78	388	12.3	1.37	98	44.11	4.39	3.4
773	ACALA MAXXA	19.90	3.61	0.62	508	36.3	1.89	79	46.58	3.55	2.4
.	LSD	3.34	0.39	0.10	31.3	7.9	0.18	7	4.55	0.54	0.4

VARIETIES BY LOCATIONS
BOSSIER CITY, LA

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 (%)

1143	DPX 8C09	1510	4.50	39.0	8.9	136	1.13	0.56	209	6.5
1137	PHYTOGEN PSC 355	1389	4.00	40.3	9.2	131	1.11	0.56	222	7.9
1104	SG 747	1376	4.00	40.4	9.3	126	1.11	0.54	197	9.0
1149	PMX 9506-0081	1361	5.00	40.3	9.5	139	1.13	0.57	220	6.2
1141	DP 675	1317	5.00	38.0	9.7	144	1.13	0.57	236	7.7
1145	JACO 7164	1312	4.50	38.9	9.6	148	1.13	0.57	236	7.7
1151	SS 9815	1288	4.50	37.3	8.9	139	1.11	0.54	218	7.9
1140	DELTA PEARL	1276	4.50	38.5	8.5	131	1.16	0.54	209	6.3
1142	DPX 9765	1259	5.00	37.0	10.4	124	1.11	0.54	203	7.4
1063	Arkot 8712	1233	5.00	37.0	10.0	139	1.17	0.57	227	7.8
1009	NU 33 B	1204	4.00	36.9	8.6	122	1.11	0.53	215	7.9
1146	JACO 7165	1159	5.00	39.3	10.2	153	1.11	0.58	240	7.3
1150	PSC GA 161	1158	5.00	36.6	11.2	147	1.16	0.57	235	6.7
1144	GA 569	1125	5.00	39.2	10.0	140	1.08	0.54	216	7.3
1148	PD 94063	1119	4.50	36.0	10.5	148	1.15	0.56	221	6.3
1138	94 L-2S	1073	5.50	35.8	11.8	145	1.16	0.56	229	6.0
1147	MD 84-1	1066	5.00	37.3	9.5	147	1.11	0.55	241	6.2
1139	94 WD-17	985	5.00	34.9	11.3	133	1.09	0.55	204	6.7
1103	FIBERMAX 989	977	5.00	37.1	10.1	158	1.16	0.58	242	6.3
773	ACALA MAXXA	494	4.50	39.2	10.8	164	1.12	0.56	277	7.0
.	LSD	178	0.72	1.0	0.6	7	0.02	0.03	16	0.9

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1143	DPX 8C09	4.60	1.10	83.2	28.5	9.3	72.5	6.7	4.60	2337
1137	PHYTOGEN PSC 355	5.35	1.10	84.1	32.5	10.5	70.0	8.1	5.25	2029
1104	SG 747	4.65	1.10	83.7	28.5	9.9	70.5	8.2	4.80	1905
1149	PMX 9506-0081	4.75	1.10	83.8	31.0	9.4	69.0	7.0	4.70	1961
1141	DP 675	4.90	1.10	84.4	33.5	10.0	75.5	7.6	4.80	2157
1145	JACO 7164	4.40	1.10	84.5	33.5	10.0	71.5	7.1	4.35	1917
1151	SS 9815	4.40	1.10	82.3	30.0	9.7	71.0	7.6	4.50	2009
1140	DELTA PEARL	4.80	1.20	84.4	30.0	9.0	70.0	6.8	4.80	1985
1142	DPX 9765	4.80	1.10	84.1	28.0	9.2	70.5	7.6	4.60	2223
1063	Arkot 8712	4.70	1.15	85.2	30.5	9.8	67.5	6.9	4.60	2127
1009	NU 33 B	4.60	1.10	82.4	27.5	9.1	73.0	7.0	4.40	1974

1146	JACO 7165	4.50	1.10	84.4	35.5	10.0	72.0	7.4	4.40	1695
1150	PSC GA 161	4.25	1.20	83.8	33.0	9.4	72.5	7.5	4.30	2011
1144	GA 569	4.85	1.10	83.4	35.0	10.0	72.0	8.4	5.05	1813
1148	PD 94063	4.45	1.20	84.4	33.5	9.7	72.5	7.5	4.35	1811
1138	94 L-2S	4.50	1.20	84.2	31.0	8.7	69.5	8.4	4.30	2135
1147	MD 84-1	4.95	1.05	82.8	35.5	10.0	68.0	8.4	5.00	1528
1139	94 WD-17	4.90	1.10	83.3	30.5	9.7	72.0	8.2	4.80	1847
1103	FIBERMAX 989	4.20	1.15	83.9	35.5	9.7	71.5	8.0	4.15	1594
773	ACALA MAXXA	4.20	1.10	84.9	37.0	9.9	73.0	7.5	4.10	840
.	LSD	0.47	0.05	1.3	2.3	0.5	3.5	0.7	0.42	383

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
					(mm2/mm3)						
1143	DPX 8C09	16.82	3.34	0.44	425	22.8	1.61	89	47.66	4.34	2.9
1137	PHYTOGEN PSC 355	20.24	3.61	0.74	384	18.5	1.52	93	49.62	5.01	3.3
1104	SG 747	16.59	3.39	0.53	427	28.0	1.72	85	50.59	4.58	2.9
1149	PMX 9506-0081	21.24	3.49	0.59	421	16.0	1.46	95	43.70	4.05	3.1
1141	DP 675	20.24	3.48	0.71	406	20.3	1.56	91	48.05	4.57	3.1
1145	JACO 7164	18.01	3.61	0.67	448	27.5	1.71	85	48.10	4.16	2.8
1151	SS 9815	18.74	3.60	0.74	439	23.3	1.62	89	46.39	4.09	2.9
1140	DELTA PEARL	17.21	3.54	0.47	414	19.8	1.54	92	46.92	4.40	3.1
1142	DPX 9765	19.58	3.49	0.70	407	20.3	1.56	91	48.01	4.56	3.1
1063	Arkot 8712	19.97	3.46	0.60	426	20.3	1.56	91	45.89	4.17	3.0
1009	NU 33 B	18.92	3.44	0.65	442	27.5	1.71	86	48.67	4.26	2.8
1146	JACO 7165	20.31	3.66	0.66	437	27.5	1.71	85	49.15	4.35	2.8
1150	PSC GA 161	18.56	3.27	0.60	457	26.0	1.68	86	46.14	3.90	2.7
1144	GA 569	18.07	3.62	0.69	414	25.3	1.66	88	50.23	4.69	3.0
1148	PD 94063	19.55	3.31	0.75	452	22.8	1.62	89	44.76	3.83	2.8
1138	94 L-2S	18.48	3.73	0.56	437	23.0	1.61	89	46.29	4.10	2.9
1147	MD 84-1	19.07	3.42	0.76	387	18.3	1.51	93	49.06	4.91	3.3
1139	94 WD-17	21.33	3.68	0.45	413	23.0	1.62	89	49.15	4.61	3.1
1103	FIBERMAX 989	19.41	3.48	0.51	466	33.3	1.82	82	48.80	4.06	2.7
773	ACALA MAXXA	18.67	3.92	0.49	457	25.8	1.67	87	45.46	3.84	2.8
.	LSD	1.69	0.25	0.12	42.4	12.8	0.26	10	5.24	0.58	0.4

VARIETIES BY LOCATIONS
STONEVILLE, MS

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 (%)
1137	PHYTOGEN PSC 355	1160	4.00	40.5	9.4	122	1.11	0.56	197	7.9
1149	PMX 9506-0081	1139	4.50	40.3	10.0	128	1.11	0.56	218	7.4
1104	SG 747	1138	4.50	39.7	9.7	111	1.11	0.56	180	9.2
1140	DELTA PEARL	1080	4.00	39.9	8.5	129	1.15	0.55	204	7.3
1063	Arkot 8712	1072	4.00	37.7	9.7	128	1.15	0.55	219	8.9
1144	GA 569	1060	4.00	37.7	9.9	126	1.08	0.54	208	7.0
1147	MD 84-1	1024	3.00	38.2	8.8	129	1.08	0.54	229	6.7
1009	NU 33 B	1013	4.00	36.3	8.8	119	1.09	0.55	189	8.2
1151	SS 9815	1000	4.00	37.4	9.1	126	1.08	0.55	199	7.7
1138	94 L-2S	998	5.00	36.7	12.2	136	1.17	0.57	210	7.2
1146	JACO 7165	998	4.00	39.1	10.2	136	1.08	0.56	229	7.8
1145	JACO 7164	976	4.00	38.3	10.2	135	1.07	0.55	224	8.2
1103	FIBERMAX 989	973	4.00	38.3	9.5	148	1.13	0.56	234	6.4
1143	DPX 8C09	942	4.00	37.8	8.7	122	1.13	0.56	199	7.8
1141	DP 675	931	4.00	36.8	8.9	126	1.10	0.56	207	8.7
1150	PSC GA 161	920	4.50	36.3	10.5	132	1.13	0.57	212	6.8
1139	94 WD-17	896	5.00	35.4	11.5	121	1.09	0.56	185	7.0
1142	DPX 9765	859	4.00	36.1	10.7	116	1.09	0.53	191	7.3
1148	PD 94063	813	4.00	35.7	10.3	130	1.12	0.56	213	6.9
773	ACALA MAXXA	550	4.00	38.5	10.5	135	1.10	0.56	235	6.9
.	LSD	116	0.57	0.7	0.5	7	0.02	0.03	14	0.9

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

VARIETY CODE	VARIETY NAME	MICRONAIRE	2.5% S.L.	UNIFORMITY	STRENGTH	COLORIMETER HUNTER'S	MICRONAIRE	SEED YIELD

CODE	NAME	(Reading)	(in.)	(%)	(g/tex)	E	Rd	b	(Reading)	(lb/ac)
1137	PHYTOGEN PSC 355	4.80	1.10	84.4	31.5	10.5	68.0	8.9	4.85	1662
1149	PMX 9506-0081	4.35	1.10	84.4	31.0	9.8	71.0	8.1	4.35	1753
1104	SG 747	4.75	1.10	83.1	28.0	10.0	67.0	9.2	4.75	1648
1140	DELTA PEARL	4.55	1.15	83.5	30.5	9.3	72.0	7.9	4.55	1620
1063	Arkot 8712	4.65	1.15	84.6	29.0	10.0	68.0	8.6	4.60	1863
1144	GA 569	4.65	1.05	82.4	33.5	10.0	66.5	9.7	4.60	1663
1147	MD 84-1	4.80	1.05	82.3	33.0	10.0	68.5	9.6	4.80	1817
1009	NU 33 B	4.45	1.10	82.6	28.5	9.9	70.0	8.4	4.45	1763
1151	SS 9815	4.65	1.10	82.2	31.5	10.0	69.5	8.3	4.60	1734
1138	94 L-2S	4.35	1.20	84.0	32.0	9.3	70.0	8.8	4.20	1821
1146	JACO 7165	4.40	1.05	82.9	34.0	10.5	66.5	8.4	4.35	1491
1145	JACO 7164	4.70	1.05	83.6	33.0	10.0	71.5	8.5	4.55	1562
1103	FIBERMAX 989	4.05	1.10	83.5	35.5	9.9	68.5	8.4	3.90	1572
1143	DPX 8C09	4.75	1.10	83.3	30.0	9.9	72.0	8.7	4.60	1600
1141	DP 675	4.45	1.10	82.8	32.0	10.0	70.0	8.9	4.45	1792
1150	PSC GA 161	4.15	1.10	82.5	32.0	9.8	72.0	8.2	4.05	1645
1139	94 WD-17	4.90	1.05	83.2	30.0	9.8	68.0	9.0	4.80	1544
1142	DPX 9765	4.75	1.10	82.4	29.5	9.9	69.5	9.0	4.70	1580
1148	PD 94063	4.50	1.10	82.0	32.0	10.0	67.0	8.5	4.25	1598
773	ACALA MAXXA	3.80	1.10	81.9	35.0	9.6	68.5	8.5	3.70	932
.	LSD	0.29	0.09	1.4	1.9	0.5	2.6	0.5	0.28	438

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1137	PHYTOGEN PSC 355	22.09	3.33	0.65	411	21.0	1.57	91	47.92	4.51	3.1
1149	PMX 9506-0081	23.76	3.33	0.64	450	26.5	1.69	86	47.27	4.07	2.8
1104	SG 747	21.21	3.23	0.73	416	28.8	1.74	84	52.55	4.90	2.9
1140	DELTA PEARL	20.61	3.42	0.61	422	19.3	1.54	92	45.67	4.19	3.0
1063	Arkot 8712	22.97	3.00	0.69	423	22.5	1.61	89	47.71	4.36	3.0
1144	GA 569	20.28	3.27	0.66	422	26.0	1.68	87	50.00	4.59	3.0
1147	MD 84-1	20.82	3.10	0.79	401	21.5	1.59	90	49.73	4.81	3.1
1009	NU 33 B	20.56	3.12	0.72	434	25.0	1.66	87	48.08	4.29	2.9
1151	SS 9815	20.16	3.04	0.78	423	23.8	1.64	88	48.48	4.43	2.9

1138	94 L-2S	21.01	3.55	0.68	448	26.0	1.68	87	47.15	4.07	2.8
1146	JACO 7165	21.63	3.16	0.72	430	23.8	1.64	88	47.74	4.29	2.9
1145	JACO 7164	21.48	3.07	0.66	417	20.5	1.56	91	46.90	4.35	3.0
1103	FIBERMAX 989	22.33	3.28	0.53	479	31.3	1.79	82	46.89	3.79	2.6
1143	DPX 8C09	19.74	3.18	0.43	426	19.0	1.53	93	45.05	4.10	3.0
1141	DP 675	21.96	3.16	0.72	459	32.0	1.80	82	49.29	4.16	2.7
1150	PSC GA 161	20.96	3.01	0.71	472	23.0	1.61	89	42.82	3.51	2.7
1139	94 WD-17	24.08	3.38	0.50	408	19.8	1.55	92	47.53	4.51	3.1
1142	DPX 9765	21.95	3.22	0.80	414	23.3	1.62	89	49.19	4.60	3.0
1148	PD 94063	22.19	3.09	0.85	439	23.0	1.62	89	46.30	4.08	2.9
773	ACALA MAXXA	19.39	3.58	0.54	493	34.8	1.85	80	47.13	3.70	2.5
.	LSD	1.88	0.24	0.15	30.3	8.6	0.18	7	4.18	0.52	0.3

VARIETIES BY LOCATIONS

KEISER, AR

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 (%)
1104	SG 747	1314	4.00	39.2	10.2	122	1.17	0.59	178	9.3
1137	PHYTOGEN PSC 355	1299	4.50	38.7	10.1	127	1.13	0.58	220	8.2
1063	Arkot 8712	1214	4.00	36.2	10.5	137	1.19	0.60	223	7.8
1151	SS 9815	1179	3.50	37.1	9.7	137	1.15	0.58	213	7.6
1149	PMX 9506-0081	1167	5.00	37.7	11.7	137	1.18	0.60	219	6.8
1146	JACO 7165	1162	3.50	37.1	11.3	139	1.16	0.59	221	6.8
1009	NU 33 B	1155	3.50	36.3	9.5	129	1.16	0.58	196	8.6
1143	DPX 8C09	1112	3.50	38.4	9.3	134	1.19	0.58	213	8.2
1147	MD 84-1	1076	3.50	35.8	9.7	139	1.13	0.58	232	7.4
1138	94 L-2S	1042	5.00	34.4	13.7	139	1.26	0.60	230	6.3
1144	GA 569	1029	4.00	36.8	10.2	139	1.17	0.59	220	8.8
1140	DELTA PEARL	1027	3.50	38.8	9.4	139	1.27	0.60	210	7.2
1145	JACO 7164	1026	4.50	35.6	11.5	141	1.15	0.59	219	9.2

1141	DP 675	1004	3.00	36.5	9.5	134	1.19	0.60	208	9.3
1103	FIBERMAX 989	1003	3.50	37.6	10.2	152	1.21	0.61	238	7.0
1150	PSC GA 161	975	3.50	35.1	11.3	138	1.23	0.61	213	7.4
1139	94 WD-17	908	3.50	33.2	12.2	131	1.13	0.59	218	7.3
1148	PD 94063	892	3.50	34.8	11.4	138	1.17	0.59	203	7.9
1142	DPX 9765	873	4.00	35.3	11.4	126	1.19	0.59	193	7.4
773	ACALA MAXXA	548	3.50	37.9	12.2	144	1.19	0.59	233	7.3
.	LSD	134	1.19	2.2	1.1	5	0.03	0.02	17	1.3

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1104	SG 747	4.45	1.15	86.1	27.5	10.0	72.0	8.8	4.75	1920
1137	PHYTOGEN PSC 355	4.75	1.10	85.3	31.0	11.0	69.5	8.0	4.85	2086
1063	Arkot 8712	4.35	1.20	86.1	31.0	10.0	72.0	8.3	4.40	2031
1151	SS 9815	4.35	1.10	84.9	30.5	9.9	72.5	8.4	4.35	1964
1149	PMX 9506-0081	4.40	1.20	85.9	31.5	9.7	72.5	7.8	4.30	1899
1146	JACO 7165	4.10	1.15	85.9	33.0	10.5	70.0	8.6	4.25	2038
1009	NU 33 B	4.15	1.15	84.8	27.5	9.8	75.0	8.6	4.20	2078
1143	DPX 8C09	4.25	1.20	85.6	30.5	9.8	73.0	8.0	4.05	1685
1147	MD 84-1	4.25	1.10	84.8	33.0	9.8	70.5	8.9	4.15	1955
1138	94 L-2S	4.05	1.30	86.9	32.5	9.5	71.5	8.2	4.20	2019
1144	GA 569	4.25	1.15	84.9	32.5	10.0	73.5	9.2	4.15	1811
1140	DELTA PEARL	4.40	1.20	86.5	30.0	9.7	70.5	7.7	4.30	1756
1145	JACO 7164	4.15	1.10	85.4	31.5	10.5	71.5	8.1	4.10	1656
1141	DP 675	4.00	1.20	85.1	31.0	10.0	74.5	8.8	3.85	1671
1103	FIBERMAX 989	4.15	1.15	84.7	32.5	9.6	73.0	8.4	4.10	1698
1150	PSC GA 161	4.10	1.20	86.8	30.0	9.8	75.0	8.6	4.20	1860
1139	94 WD-17	4.20	1.10	83.5	30.0	9.9	71.0	8.8	4.30	1820
1148	PD 94063	4.35	1.20	86.2	30.0	9.7	70.5	7.9	4.25	1592
1142	DPX 9765	4.45	1.20	86.3	28.5	10.0	72.5	8.1	4.40	1645
773	ACALA MAXXA	3.45	1.15	84.5	32.5	9.4	73.0	8.7	3.40	850
.	LSD	0.51	0.08	1.8	2.1	0.6	4.1	0.8	0.75	315

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	18.85	3.35	0.75	430	30.5	1.77	83	51.59	4.67	2.9
1137	PHYTOGEN PSC 355	21.74	3.53	0.89	412	22.8	1.62	89	49.17	4.62	3.0
1063	Arkot 8712	21.23	3.33	0.74	409	20.0	1.55	92	47.56	4.50	3.1
1151	SS 9815	19.96	3.08	0.92	462	33.5	1.82	81	49.39	4.16	2.7
1149	PMX 9506-0081	23.91	3.48	0.66	440	27.3	1.70	86	48.58	4.28	2.8
1146	JACO 7165	20.37	3.31	0.74	459	35.5	1.86	80	50.88	4.30	2.6
1009	NU 33 B	19.90	3.23	0.91	473	35.8	1.87	79	49.64	4.09	2.6
1143	DPX 8C09	18.45	3.14	0.53	457	28.5	1.73	85	47.61	4.03	2.7
1147	MD 84-1	20.51	3.17	0.88	446	31.0	1.77	83	49.63	4.31	2.8
1138	94 L-2S	20.82	3.50	0.79	436	28.3	1.73	85	49.73	4.41	2.8
1144	GA 569	20.59	3.28	0.89	475	40.8	1.97	76	51.99	4.24	2.5
1140	DELTA PEARL	20.87	3.43	0.68	440	27.5	1.71	85	48.81	4.29	2.8
1145	JACO 7164	23.85	3.31	0.78	450	26.8	1.70	86	47.41	4.08	2.7
1141	DP 675	19.69	3.03	0.80	498	48.3	2.09	71	52.62	4.13	2.4
1103	FIBERMAX 989	21.64	3.30	0.56	454	22.5	1.61	90	44.41	3.79	2.8
1150	PSC GA 161	20.27	3.16	0.82	472	34.3	1.85	80	49.14	4.03	2.6
1139	94 WD-17	22.44	3.26	0.61	434	29.8	1.76	84	50.93	4.56	2.8
1148	PD 94063	21.93	3.48	0.82	447	30.5	1.77	83	49.84	4.32	2.7
1142	DPX 9765	21.33	3.19	0.94	438	26.0	1.68	87	48.15	4.26	2.9
773	ACALA MAXXA	19.91	3.73	0.66	555	52.3	2.16	68	48.74	3.41	2.1
.	LSD	2.05	0.32	0.17	62.5	16.6	0.31	12	3.66	0.58	0.5

VARIETIES BY LOCATIONS
TIFTON, GA

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

CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
1140	DELTA PEARL	1446	5.00	.	9.0	.	.	.	.	.
1063	Arkot 8712	1405	5.00	.	10.5	.	.	.	.	.
1104	SG 747	1328	5.00	.	9.7	.	.	.	.	.
1137	PHYTOGEN PSC 355	1308	4.50	.	9.8	.	.	.	.	.
1103	FIBERMAX 989	1281	5.00	.	9.4	.	.	.	.	.
1150	PSC GA 161	1269	5.00	.	10.6	.	.	.	.	.
1009	NU 33 B	1267	5.00	.	8.9	.	.	.	.	.
1142	DPX 9765	1259	5.00	.	10.9	.	.	.	.	.
1145	JACO 7164	1249	5.00	.	10.7	.	.	.	.	.
1149	PMX 9506-0081	1245	5.50	.	10.7	.	.	.	.	.
1151	SS 9815	1209	4.00	.	9.6	.	.	.	.	.
1138	94 L-2S	1194	5.50	.	12.2	.	.	.	.	.
1143	DPX 8C09	1189	5.00	.	9.6	.	.	.	.	.
1146	JACO 7165	1177	5.50	.	10.5	.	.	.	.	.
1147	MD 84-1	1166	4.00	.	9.5	.	.	.	.	.
1144	GA 569	1162	5.00	.	10.3	.	.	.	.	.
1141	DP 675	1159	5.00	.	9.6	.	.	.	.	.
1139	94 WD-17	1112	5.50	.	11.8	.	.	.	.	.
1148	PD 94063	1082	4.50	.	10.7	.	.	.	.	.
773	ACALA MAXXA	378	5.00	.	11.1	.	.	.	.	.
.	LSD	99	0.81	.	0.7	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1140	DELTA PEARL	.	.	.	.	.	.	.	.	.
1063	Arkot 8712	.	.	.	.	.	.	.	.	.
1104	SG 747	.	.	.	.	.	.	.	.	.
1137	PHYTOGEN PSC 355	.	.	.	.	.	.	.	.	.
1103	FIBERMAX 989	.	.	.	.	.	.	.	.	.
1150	PSC GA 161	.	.	.	.	.	.	.	.	.
1009	NU 33 B	.	.	.	.	.	.	.	.	.
1142	DPX 9765	.	.	.	.	.	.	.	.	.
1145	JACO 7164	.	.	.	.	.	.	.	.	.

1149	PMX 9506-0081	.	.	.	.	.	.	.	.	.
1151	SS 9815	.	.	.	.	.	.	.	.	.
1138	94 L-2S	.	.	.	.	.	.	.	.	.
1143	DPX 8C09	.	.	.	.	.	.	.	.	.
1146	JACO 7165	.	.	.	.	.	.	.	.	.
1147	MD 84-1	.	.	.	.	.	.	.	.	.
1144	GA 569	.	.	.	.	.	.	.	.	.
1141	DP 675	.	.	.	.	.	.	.	.	.
1139	94 WD-17	.	.	.	.	.	.	.	.	.
1148	PD 94063	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.

					AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1140	DELTA PEARL	.	.	.	.	.	.	.	.	.	.
1063	Arkot 8712	.	.	.	.	.	.	.	.	.	.
1104	SG 747	.	.	.	.	.	.	.	.	.	.
1137	PHYTOGEN PSC 355	.	.	.	.	.	.	.	.	.	.
1103	FIBERMAX 989	.	.	.	.	.	.	.	.	.	.
1150	PSC GA 161	.	.	.	.	.	.	.	.	.	.
1009	NU 33 B	.	.	.	.	.	.	.	.	.	.
1142	DPX 9765	.	.	.	.	.	.	.	.	.	.
1145	JACO 7164	.	.	.	.	.	.	.	.	.	.
1149	PMX 9506-0081	.	.	.	.	.	.	.	.	.	.
1151	SS 9815	.	.	.	.	.	.	.	.	.	.
1138	94 L-2S	.	.	.	.	.	.	.	.	.	.
1143	DPX 8C09	.	.	.	.	.	.	.	.	.	.
1146	JACO 7165	.	.	.	.	.	.	.	.	.	.
1147	MD 84-1	.	.	.	.	.	.	.	.	.	.
1144	GA 569	.	.	.	.	.	.	.	.	.	.
1141	DP 675	.	.	.	.	.	.	.	.	.	.
1139	94 WD-17	.	.	.	.	.	.	.	.	.	.
1148	PD 94063	.	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
FLORENCE, SC

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 (%)
1145	JACO 7164	453	4.00	44.3	9.5	139	1.03	0.54	235	7.7
1009	NU 33 B	430	4.00	43.3	8.7	124	1.07	0.56	216	7.9
1148	PD 94063	426	4.00	42.5	9.8	137	1.09	0.56	233	7.3
1150	PSC GA 161	424	4.50	42.0	10.1	127	1.06	0.55	233	6.8
1104	SG 747	391	4.00	40.6	9.0	113	1.05	0.54	189	8.4
1141	DP 675	383	4.00	43.1	8.5	129	1.03	0.54	240	8.6
1139	94 WD-17	364	4.50	43.7	11.1	131	1.03	0.55	233	7.3
1063	Arkot 8712	364	4.50	41.9	9.3	135	1.06	0.54	215	7.4
1147	MD 84-1	364	4.00	43.1	9.0	126	1.00	0.52	248	7.4
1146	JACO 7165	347	4.00	42.6	9.8	136	1.04	0.54	230	8.4
1151	SS 9815	340	4.00	41.0	8.9	129	1.02	0.54	233	8.7
1137	PHYTOGEN PSC 355	331	4.00	41.6	9.3	125	1.03	0.55	225	9.2
1138	94 L-2S	328	4.50	42.8	11.7	127	1.10	0.53	215	6.3
1140	DELTA PEARL	302	4.00	41.0	8.4	129	1.10	0.56	220	7.4
1149	PMX 9506-0081	299	5.00	42.3	9.6	121	1.06	0.55	232	7.3
1142	DPX 9765	290	4.00	41.6	9.7	117	1.02	0.52	202	7.7
1143	DPX 8C09	277	4.00	39.0	8.8	129	1.05	0.55	223	7.0
1103	FIBERMAX 989	247	4.00	39.6	9.0	140	1.07	0.55	234	6.7
1144	GA 569	209	4.00	40.6	9.5	123	1.00	0.52	221	8.1
773	ACALA MAXXA	209	5.00	43.1	10.7	153	1.06	0.56	259	6.8
.	LSD	98	0.94	1.6	0.7	8	0.01	0.02	23	1.2

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1145	JACO 7164	5.15	1.00	82.4	34.5	10.0	67.0	8.3	5.30	629
1009	NU 33 B	5.35	1.00	82.5	31.5	10.5	67.0	8.2	5.55	674
1148	PD 94063	4.95	1.10	83.0	34.0	10.0	64.5	8.7	5.20	745
1150	PSC GA 161	5.15	1.05	82.3	35.5	10.0	66.5	8.7	5.25	631
1104	SG 747	5.15	1.00	82.6	29.0	10.0	65.0	9.3	5.60	640
1141	DP 675	5.40	1.00	82.8	37.0	11.0	68.0	8.6	5.65	570
1139	94 WD-17	5.40	1.00	82.2	33.0	10.0	64.0	9.1	5.50	554
1063	Arkot 8712	5.05	1.05	81.9	32.0	10.0	65.5	9.1	5.30	634
1147	MD 84-1	5.25	1.00	81.3	36.0	10.5	65.0	8.9	5.80	660
1146	JACO 7165	5.30	1.00	82.4	36.5	10.5	65.0	8.9	5.40	548
1151	SS 9815	5.35	1.00	82.3	32.5	10.5	66.0	8.7	5.60	604
1137	PHYTOGEN PSC 355	5.35	1.00	83.2	35.0	11.5	62.5	9.0	5.70	564
1138	94 L-2S	5.05	1.10	81.9	31.5	9.0	61.5	9.8	5.20	473
1140	DELTA PEARL	5.30	1.10	83.6	32.0	9.5	67.0	7.9	5.50	548
1149	PMX 9506-0081	5.25	1.05	82.9	33.5	10.0	65.0	8.7	5.45	480
1142	DPX 9765	5.20	1.00	81.4	29.0	10.0	67.0	9.2	5.50	527
1143	DPX 8C09	5.45	1.00	82.8	32.5	10.0	66.5	8.5	5.80	480
1103	FIBERMAX 989	4.95	1.00	82.2	34.5	10.0	64.0	8.1	5.20	453
1144	GA 569	5.55	1.00	82.0	36.0	11.0	66.0	9.4	5.90	317
773	ACALA MAXXA	4.55	1.05	83.4	36.5	10.0	64.5	8.6	4.50	362
.	LSD	0.27	0.07	1.5	2.7	0.8	3.2	0.7	0.30	162

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	AREALOMETER DATA I	AREALOMETER DATA M (%)	p (microns)	w (mg/in)	t (microns)
1145	JACO 7164	23.99	3.99	0.52	372	16.3	1.46	95	49.33	5.13	3.5
1009	NU 33 B	23.72	3.91	0.57	359	14.8	1.42	96	49.84	5.37	3.6
1148	PD 94063	23.39	4.07	0.72	377	12.8	1.38	98	45.82	4.70	3.5
1150	PSC GA 161	23.94	3.90	0.52	385	17.5	1.50	94	48.85	4.92	3.4
1104	SG 747	21.00	3.96	0.51	356	15.3	1.44	96	50.70	5.50	3.7
1141	DP 675	22.95	3.88	0.53	358	18.3	1.52	93	53.01	5.73	3.6
1139	94 WD-17	25.41	4.43	0.42	363	13.8	1.40	97	48.52	5.17	3.6

1063	Arkot 8712	21.76	3.80	0.73	365	14.0	1.41	96	48.59	5.16	3.6
1147	MD 84-1	22.81	3.86	0.58	349	15.3	1.44	96	51.82	5.75	3.7
1146	JACO 7165	24.12	4.09	0.56	365	16.5	1.47	95	50.61	5.37	3.6
1151	SS 9815	21.99	3.65	0.53	359	12.8	1.38	98	48.15	5.19	3.7
1137	PHYTOGEN PSC 355	23.13	4.12	0.52	350	16.8	1.48	95	52.98	5.86	3.7
1138	94 L-2S	22.73	4.39	0.45	377	11.3	1.34	99	44.55	4.57	3.6
1140	DELTA PEARL	22.30	3.94	0.44	364	14.5	1.43	96	49.09	5.22	3.6
1149	PMX 9506-0081	24.85	3.98	0.48	359	15.5	1.45	96	50.56	5.45	3.6
1142	DPX 9765	23.68	4.13	0.61	390	15.8	1.45	95	46.92	4.68	3.3
1143	DPX 8C09	23.02	4.07	0.46	342	12.5	1.37	98	50.32	5.69	3.9
1103	FIBERMAX 989	24.60	4.10	0.47	370	11.0	1.34	99	45.19	4.72	3.7
1144	GA 569	22.54	3.92	0.56	340	14.0	1.41	97	51.89	5.89	3.9
773	ACALA MAXXA	23.04	4.70	0.58	416	17.8	1.50	93	45.10	4.19	3.1
.	LSD	0.93	0.18	0.21	19.3	6.0	0.15	5	5.42	0.69	0.2

VARIETIES BY LOCATIONS
ROCKY MOUNT, NC

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 (%)
1141	DP 675	801	4.00	39.9	8.6	.	.	.	.	.
1009	NU 33 B	761	4.00	38.9	8.4	.	.	.	.	.
1137	PHYTOGEN PSC 355	751	4.00	40.7	10.2	.	.	.	.	.
1103	FIBERMAX 989	750	4.00	40.8	9.7	.	.	.	.	.
1144	GA 569	737	4.00	40.6	9.2	.	.	.	.	.
1150	PSC GA 161	699	4.00	41.0	10.5	.	.	.	.	.
1151	SS 9815	695	4.00	41.1	9.8	.	.	.	.	.
1147	MD 84-1	690	4.00	40.5	9.7	.	.	.	.	.
1104	SG 747	687	4.00	44.0	9.4	.	.	.	.	.

1143	DPX 8C09	686	4.00	40.5	8.4	.	.	.	.	.
1142	DPX 9765	636	4.00	41.4	9.8	.	.	.	.	.
1148	PD 94063	628	4.00	40.5	10.0	.	.	.	.	.
1140	DELTA PEARL	618	4.00	40.9	9.1	.	.	.	.	.
1063	Arkot 8712	585	4.50	40.5	10.3	.	.	.	.	.
1149	PMX 9506-0081	578	4.50	42.3	10.4	.	.	.	.	.
1145	JACO 7164	567	4.00	41.1	9.2	.	.	.	.	.
1146	JACO 7165	556	4.00	42.1	9.0	.	.	.	.	.
1138	94 L-2S	549	4.50	41.1	12.9	.	.	.	.	.
1139	94 WD-17	545	4.00	40.1	11.4	.	.	.	.	.
773	ACALA MAXXA	444	4.00	40.9	10.8	.	.	.	.	.
.	LSD	90	0.57	0.0	0.7	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1141	DP 675	.	.	.	.	.	.	.	.	1207
1009	NU 33 B	.	.	.	.	.	.	.	.	1195
1137	PHYTOGEN PSC 355	.	.	.	.	.	.	.	.	1094
1103	FIBERMAX 989	.	.	.	.	.	.	.	.	1089
1144	GA 569	.	.	.	.	.	.	.	.	1079
1150	PSC GA 161	.	.	.	.	.	.	.	.	1006
1151	SS 9815	.	.	.	.	.	.	.	.	995
1147	MD 84-1	.	.	.	.	.	.	.	.	1014
1104	SG 747	.	.	.	.	.	.	.	.	875
1143	DPX 8C09	.	.	.	.	.	.	.	.	1008
1142	DPX 9765	.	.	.	.	.	.	.	.	900
1148	PD 94063	.	.	.	.	.	.	.	.	922
1140	DELTA PEARL	.	.	.	.	.	.	.	.	893
1063	Arkot 8712	.	.	.	.	.	.	.	.	859
1149	PMX 9506-0081	.	.	.	.	.	.	.	.	788
1145	JACO 7164	.	.	.	.	.	.	.	.	813
1146	JACO 7165	.	.	.	.	.	.	.	.	764
1138	94 L-2S	.	.	.	.	.	.	.	.	786
1139	94 WD-17	.	.	.	.	.	.	.	.	814
773	ACALA MAXXA	.	.	.	.	.	.	.	.	642
.	LSD	.	.	.	.	.	.	.	.	130

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1141	DP 675	.	.	.	.	.	.	.	.	.	.
1009	NU 33 B	.	.	.	.	.	.	.	.	.	.
1137	PHYTOGEN PSC 355	.	.	.	.	.	.	.	.	.	.
1103	FIBERMAX 989	.	.	.	.	.	.	.	.	.	.
1144	GA 569	.	.	.	.	.	.	.	.	.	.
1150	PSC GA 161	.	.	.	.	.	.	.	.	.	.
1151	SS 9815	.	.	.	.	.	.	.	.	.	.
1147	MD 84-1	.	.	.	.	.	.	.	.	.	.
1104	SG 747	.	.	.	.	.	.	.	.	.	.
1143	DPX 8C09	.	.	.	.	.	.	.	.	.	.
1142	DPX 9765	.	.	.	.	.	.	.	.	.	.
1148	PD 94063	.	.	.	.	.	.	.	.	.	.
1140	DELTA PEARL	.	.	.	.	.	.	.	.	.	.
1063	Arkot 8712	.	.	.	.	.	.	.	.	.	.
1149	PMX 9506-0081	.	.	.	.	.	.	.	.	.	.
1145	JACO 7164	.	.	.	.	.	.	.	.	.	.
1146	JACO 7165	.	.	.	.	.	.	.	.	.	.
1138	94 L-2S	.	.	.	.	.	.	.	.	.	.
1139	94 WD-17	.	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
BELLE MINA, AL

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 (%)
1104	SG 747	715	4.00	39.4	9.4	121	1.08	0.53	192	9.3
1137	PHYTOGEN PSC 355	651	3.50	39.2	9.0	126	1.06	0.52	204	9.0
1146	JACO 7165	621	4.00	41.5	9.1	129	1.01	0.52	220	8.1
1145	JACO 7164	607	4.00	40.9	8.8	137	1.05	0.52	241	8.3
1063	Arkot 8712	593	4.00	35.9	9.3	136	1.11	0.55	220	9.2
1142	DPX 9765	588	4.00	37.4	10.2	121	1.09	0.51	180	7.9
1150	PSC GA 161	587	4.00	36.7	10.0	145	1.11	0.55	217	7.0
1143	DPX 8C09	559	4.00	38.5	8.4	130	1.10	0.53	203	7.4
1141	DP 675	552	4.00	38.3	8.3	135	1.05	0.51	227	7.8
1144	GA 569	539	4.00	39.0	9.2	133	1.07	0.52	199	7.7
1149	PMX 9506-0081	536	4.00	41.5	9.0	132	1.07	0.52	205	7.3
1148	PD 94063	534	4.00	37.1	10.1	140	1.09	0.53	207	7.4
1147	MD 84-1	530	3.00	38.0	8.9	131	1.06	0.52	208	7.6
1139	94 WD-17	526	4.00	34.8	9.9	123	1.06	0.54	190	7.3
1103	FIBERMAX 989	521	4.50	37.0	9.2	149	1.10	0.53	230	6.8
1151	SS 9815	501	4.00	37.3	9.6	134	1.06	0.52	210	7.5
773	ACALA MAXXA	475	4.00	39.3	9.8	150	1.09	0.54	238	7.7
1009	NU 33 B	453	3.50	37.1	8.3	123	1.06	0.51	203	8.7
1140	DELTA PEARL	442	4.00	39.5	8.6	131	1.07	0.52	212	6.9
1138	94 L-2S	406	4.50	36.1	11.0	135	1.13	0.55	201	6.9
.	LSD	87	0.66	0.0	0.8	9	0.05	0.03	22	0.9

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1104	SG 747	3.90	1.10	81.8	27.0	9.9	70.0	9.9	3.90	1152
1137	PHYTOGEN PSC 355	3.80	1.10	83.3	29.0	9.9	68.0	9.7	3.70	1069
1146	JACO 7165	4.45	1.00	82.0	29.5	9.7	73.0	10.0	4.35	976
1145	JACO 7164	4.05	1.05	82.1	32.0	10.0	71.5	9.5	4.00	899
1063	Arkot 8712	3.40	1.10	82.2	30.0	9.8	72.5	9.8	3.50	1090
1142	DPX 9765	3.90	1.10	81.4	26.0	9.3	71.5	9.4	3.85	1038

1150	PSC GA 161	3.75	1.10	82.4	31.0	9.7	76.0	9.5	3.85	1038
1143	DPX 8C09	4.15	1.10	81.4	27.5	9.3	73.0	9.3	4.05	833
1141	DP 675	4.05	1.05	80.8	32.0	10.0	71.0	9.8	4.20	997
1144	GA 569	3.90	1.10	82.4	32.0	9.8	72.5	10.0	3.75	977
1149	PMX 9506-0081	3.90	1.10	82.4	30.0	9.1	71.5	9.2	3.90	708
1148	PD 94063	3.35	1.10	83.1	31.0	9.3	70.0	9.5	3.25	875
1147	MD 84-1	3.75	1.00	81.8	30.5	9.0	70.0	9.9	3.75	936
1139	94 WD-17	3.60	1.05	82.5	30.0	9.7	70.5	9.7	3.55	1007
1103	FIBERMAX 989	3.65	1.10	82.0	31.5	9.1	73.0	9.2	3.60	957
1151	SS 9815	3.70	1.05	82.3	30.0	9.5	74.0	9.8	3.80	943
773	ACALA MAXXA	3.35	1.10	83.7	34.0	9.5	73.5	8.9	3.20	788
1009	NU 33 B	4.10	1.05	80.6	26.0	9.5	73.5	9.4	3.90	771
1140	DELTA PEARL	4.60	1.10	81.3	28.5	8.7	74.0	8.8	4.50	775
1138	94 L-2S	3.25	1.15	82.0	29.5	8.4	72.0	9.9	3.20	758
.	LSD	0.58	0.08	1.9	2.8	0.6	4.0	0.7	0.58	238

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1104	SG 747	17.14	3.51	0.48	479	40.8	1.96	76	51.39	4.15	2.5
1137	PHYTOGEN PSC 355	17.80	3.72	0.50	474	42.5	2.00	75	52.84	4.31	2.5
1146	JACO 7165	18.81	3.73	0.57	467	30.3	1.76	83	47.20	3.90	2.6
1145	JACO 7164	18.82	3.74	0.54	473	33.5	1.83	81	48.79	4.01	2.6
1063	Arkot 8712	17.70	3.57	0.45	512	40.5	1.96	76	47.94	3.63	2.4
1142	DPX 9765	18.31	3.68	0.61	483	40.5	1.96	76	51.02	4.09	2.4
1150	PSC GA 161	17.15	3.64	0.52	516	39.5	1.95	76	47.29	3.55	2.3
1143	DPX 8C09	17.94	3.62	0.39	466	27.8	1.72	85	46.33	3.85	2.6
1141	DP 675	18.73	3.81	0.58	459	34.5	1.85	80	50.68	4.28	2.6
1144	GA 569	17.59	3.71	0.44	465	38.3	1.92	77	51.81	4.31	2.6
1149	PMX 9506-0081	18.67	3.80	0.38	470	34.8	1.85	80	49.30	4.07	2.6
1148	PD 94063	17.61	3.88	0.58	526	42.5	2.00	75	47.76	3.53	2.3
1147	MD 84-1	17.47	3.64	0.61	489	38.8	1.93	77	49.36	3.90	2.4
1139	94 WD-17	18.18	3.90	0.33	504	47.8	2.09	71	51.94	3.99	2.3
1103	FIBERMAX 989	19.81	3.69	0.50	484	32.5	1.81	82	47.21	3.84	2.5
1151	SS 9815	18.82	3.50	0.60	485	37.0	1.88	79	48.44	3.88	2.5
773	ACALA MAXXA	17.33	3.76	0.49	531	45.0	2.04	73	48.20	3.51	2.2

1009	NU 33 B	18.09	3.57	0.67	496	35.0	1.86	80	47.10	3.68	2.5
1140	DELTA PEARL	17.28	3.98	0.48	430	26.3	1.69	86	49.24	4.43	2.9
1138	94 L-2S	16.82	3.51	0.42	533	48.3	2.09	70	49.29	3.58	2.2
.	LSD	0.87	0.15	0.07	65.1	17.2	0.32	12	5.01	0.66	0.4

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 ARIZONA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS COULD NOT BE STATISTICALLY EVALUATED

COMPONENT INFORMATION NOT AVAILABLE DUE TO DIFFERENT VARIETIES AT DIFFERENT LOCATIONS

VARIETIES COMBINING LOCATIONS — ARIZONA REGION

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 (%)
MARICOPA, AZ		1379	4.90	37.0	10.6	119	1.16	0.56	201	8.5
SAFFORD, AZ		1283	4.43	39.1	9.8	114	1.13	0.55	188	8.4

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
SAFFORD, AZ		4.97	.	.	.	.	.	.	.	2346	19.36
		4.40	.	.	.	.	.	.	.	1995	19.26

				AREALOMETER DATA							
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)	
MARICOPA, AZ		3.42	0.80	414	20.2	1.55	91	47.22	4.44	3.1	
SAFFORD, AZ		3.33	0.83	446	27.7	1.71	85	48.23	4.21	2.8	

VARIETIES BY LOCATIONS
MARICOPA, AZ

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 (%)
1153	DPL 655 BG/RR	1726	5.00	38.7	9.6	124	1.14	0.55	188	8.3
1152	DPL 458 BG/RR	1579	4.50	40.4	8.6	116	1.15	0.54	193	9.4
1163	SUREGROW 105	1490	4.50	40.5	9.5	117	1.17	0.56	198	7.9
1073	MAC 95	1473	4.00	38.6	9.0	119	1.14	0.56	196	8.1
1097	PAYMASTER PM 1560 BG	1449	5.00	40.4	10.4	114	1.19	0.59	190	8.4
1072	GC 303	1437	4.00	39.4	9.4	116	1.10	0.55	188	8.5
1103	FIBERMAX 989	1408	5.00	40.9	10.1	137	1.13	0.55	207	7.6
1115	AP 6101	1338	4.00	38.8	8.9	118	1.15	0.55	192	9.2
1104	SG 747	1320	4.00	40.6	9.8	53	1.11	0.55	157	10.0

1009	NU 33 B	1295	4.00	39.2	8.8	118	1.12	0.56	188	8.5
1158	PSC 355	1277	4.00	39.1	9.6	112	1.11	0.54	183	9.3
649	DELTAPINE 90	1222	4.00	39.0	9.0	119	1.15	0.57	195	8.0
1159	PSC 952	1205	4.00	40.4	9.1	107	1.09	0.54	168	8.9
788	ACALA 1517-91	1192	5.50	35.6	11.7	128	1.14	0.55	229	6.1
1157	PAYMASTER 1440	1155	4.00	40.6	9.4	110	1.11	0.56	181	8.5
1162	AP 7115	1149	4.00	40.8	10.0	99	1.08	0.52	161	8.5
1161	TERRA 292	1073	4.50	35.0	10.8	106	1.15	0.55	178	9.0
1070	GC 120	1058	4.00	39.5	10.8	110	1.11	0.56	166	8.9
773	ACALA MAXXA	958	5.50	40.0	11.2	133	1.15	0.56	203	7.3
1019	ALL TEX ATLAS	857	5.00	35.6	11.2	122	1.08	0.56	204	7.9
.	LSD	269	0.74	1.9	1.0	35	0.04	0.02	22	0.6

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1153	DPL 655 BG/RR	4.00	.	.	.	.	.	.	.	2728
1152	DPL 458 BG/RR	4.45	.	.	.	.	.	.	.	2330
1163	SUREGROW 105	4.70	.	.	.	.	.	.	.	2206
1073	MAC 95	4.50	.	.	.	.	.	.	.	2357
1097	PAYMASTER PM 1560 BG	4.35	.	.	.	.	.	.	.	2144
1072	GC 303	4.85	.	.	.	.	.	.	.	2219
1103	FIBERMAX 989	4.45	.	.	.	.	.	.	.	2039
1115	AP 6101	4.20	.	.	.	.	.	.	.	2118
1104	SG 747	4.60	.	.	.	.	.	.	.	1939
1009	NU 33 B	4.65	.	.	.	.	.	.	.	2009
1158	PSC 355	4.35	.	.	.	.	.	.	.	1992
649	DELTAPINE 90	4.40	.	.	.	.	.	.	.	1919
1159	PSC 952	4.45	.	.	.	.	.	.	.	1776
788	ACALA 1517-91	4.55	.	.	.	.	.	.	.	2159
1157	PAYMASTER 1440	4.60	.	.	.	.	.	.	.	1688
1162	AP 7115	4.20	.	.	.	.	.	.	.	1666
1161	TERRA 292	4.10	.	.	.	.	.	.	.	1998
1070	GC 120	4.20	.	.	.	.	.	.	.	1620
773	ACALA MAXXA	3.80	.	.	.	.	.	.	.	1440
1019	ALL TEX ATLAS	4.50	.	.	.	.	.	.	.	1551

. LSD	0.63	.	.	.	.	.	.	.	542		

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
1153	DPL 655 BG/RR	20.77	3.13	0.92	.	.	.	.	.	.	.
1152	DPL 458 BG/RR	18.78	3.34	0.76	.	.	.	.	.	.	.
1163	SUREGROW 105	17.79	3.21	0.99	.	.	.	.	.	.	.
1073	MAC 95	19.46	3.36	0.79	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	19.41	3.33	0.85	.	.	.	.	.	.	.
1072	GC 303	18.75	3.34	1.02	.	.	.	.	.	.	.
1103	FIBERMAX 989	20.44	3.25	0.72	.	.	.	.	.	.	.
1115	AP 6101	16.75	3.15	0.72	.	.	.	.	.	.	.
1104	SG 747	18.07	3.41	0.83	430	26.5	1.69	87	49.08	4.41	2.9
1009	NU 33 B	20.06	3.39	0.79	419	23.3	1.63	89	48.65	4.50	3.0
1158	PSC 355	19.21	3.26	0.91	.	.	.	.	.	.	.
649	DELTAPINE 90	19.56	3.13	0.89	.	.	.	.	.	.	.
1159	PSC 952	19.31	3.49	0.81	.	.	.	.	.	.	.
788	ACALA 1517-91	20.64	3.40	0.71	.	.	.	.	.	.	.
1157	PAYMASTER 1440	20.63	3.29	1.05	.	.	.	.	.	.	.
1162	AP 7115	18.73	3.38	0.82	.	.	.	.	.	.	.
1161	TERRA 292	19.17	3.30	0.84	.	.	.	.	.	.	.
1070	GC 120	18.15	3.43	0.92	.	.	.	.	.	.	.
773	ACALA MAXXA	19.09	3.78	0.61	496	34.0	1.84	80	46.41	3.62	2.5
1019	ALL TEX ATLAS	20.49	3.38	0.67	438	27.0	1.70	86	48.80	4.31	2.8
. LSD		1.50	0.20	0.20	52.8	24.5	0.49	19	8.47	0.33	0.5

VARIETIES BY LOCATIONS

SAFFORD, AZ

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 (%)
971	STV 474	1785	4.50	40.6	11.1	117	1.16	0.56	195	7.5
1097	PAYMASTER PM 1560 BG	1682	5.00	38.0	10.1	119	1.16	0.55	189	8.6
1104	SG 747	1637	5.00	38.5	11.0	105	1.15	0.56	173	9.7
1009	NU 33 B	1578	5.00	36.5	9.7	122	1.14	0.55	200	8.7
1155	DPL 451 BRR	1515	5.00	33.7	11.3	119	1.17	0.55	180	8.2
1154	DPL 422 BRR	1506	5.00	36.5	10.8	112	1.16	0.57	173	9.1
1157	PAYMASTER 1440	1498	5.00	37.7	10.5	119	1.16	0.55	205	7.6
1160	SUREGROW 821	1493	5.00	37.9	11.2	113	1.15	0.55	197	9.8
1158	PSC 355	1475	4.00	37.8	10.4	120	1.15	0.56	199	8.7
1156	HCR 7126	1474	5.00	38.4	9.1	116	1.21	0.58	208	8.7
953	SG 125	1448	4.50	37.7	10.8	107	1.16	0.56	188	9.2
1070	GC 120	1427	5.00	37.8	11.9	110	1.13	0.56	199	8.4
1159	PSC 952	1356	5.00	38.4	9.8	116	1.11	0.55	197	8.7
857	DELTAPINE 5415	1315	4.50	38.3	8.7	114	1.19	0.56	201	8.4
1115	AP 6101	1245	4.50	36.1	9.1	123	1.23	0.59	209	8.1
1161	TERRA 292	1195	5.50	33.3	11.7	115	1.19	0.57	188	8.5
1091	B 27	1184	5.00	34.2	12.1	119	1.14	0.57	220	9.3
1019	ALL TEX ATLAS	1168	5.00	33.7	12.1	130	1.17	0.56	231	8.8
1103	FIBERMAX 989	1103	5.50	37.3	11.1	140	1.16	0.56	222	6.3
1072	GC 303	1040	4.50	36.5	8.9	124	1.20	0.56	207	9.2
773	ACALA MAXXA	841	5.50	37.8	12.1	145	1.20	0.59	245	7.9
.	LSD	207	0.96	1.9	0.6	9	0.03	0.03	8	1.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
971	STV 474	5.15	.	.	.	.	.	.	.	2615
1097	PAYMASTER PM 1560 BG	4.60	.	.	.	.	.	.	.	2743
1104	SG 747	5.25	.	.	.	.	.	.	.	2614

1009	NU 33 B	5.20	.	.	.	.	.	.	2744
1155	DPL 451 BRR	5.05	.	.	.	.	.	.	2973
1154	DPL 422 BRR	5.00	.	.	.	.	.	.	2623
1157	PAYMASTER 1440	4.85	.	.	.	.	.	.	2474
1160	SUREGROW 821	5.15	.	.	.	.	.	.	2447
1158	PSC 355	4.95	.	.	.	.	.	.	2426
1156	HCR 7126	4.60	.	.	.	.	.	.	2365
953	SG 125	4.85	.	.	.	.	.	.	2387
1070	GC 120	4.95	.	.	.	.	.	.	2341
1159	PSC 952	5.30	.	.	.	.	.	.	2177
857	DELTAPINE 5415	4.90	.	.	.	.	.	.	2112
1115	AP 6101	5.05	.	.	.	.	.	.	2205
1161	TERRA 292	5.20	.	.	.	.	.	.	2381
1091	B 27	5.10	.	.	.	.	.	.	2282
1019	ALL TEX ATLAS	4.80	.	.	.	.	.	.	2303
1103	FIBERMAX 989	4.95	.	.	.	.	.	.	1858
1072	GC 303	5.05	.	.	.	.	.	.	1806
773	ACALA MAXXA	4.35	.	.	.	.	.	.	1381
.	LSD	0.50	.	.	.	.	.	.	287

					AREALOMETER DATA						
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
971	STV 474	19.71	3.45	1.08	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	19.41	3.43	0.94	.	.	.	.	.	.	.
1104	SG 747	18.57	3.59	0.69	387	20.0	1.55	91	50.30	5.03	3.3
1009	NU 33 B	19.99	3.32	0.84	383	18.8	1.52	93	49.85	5.04	3.3
1155	DPL 451 BRR	21.08	3.31	0.91	.	.	.	.	.	.	.
1154	DPL 422 BRR	19.40	3.31	0.90	.	.	.	.	.	.	.
1157	PAYMASTER 1440	20.03	3.35	1.09	.	.	.	.	.	.	.
1160	SUREGROW 821	20.07	3.54	0.90	.	.	.	.	.	.	.
1158	PSC 355	20.46	3.30	0.93	.	.	.	.	.	.	.
1156	HCR 7126	16.57	3.26	0.62	.	.	.	.	.	.	.
953	SG 125	19.39	3.48	0.70	.	.	.	.	.	.	.
1070	GC 120	18.98	3.59	0.96	.	.	.	.	.	.	.
1159	PSC 952	19.77	3.53	0.87	.	.	.	.	.	.	.

857	DELTAPINE 5415	17.79	3.09	0.72	.	.	.	.	.	.	.
1115	AP 6101	17.52	3.28	0.59	.	.	.	.	.	.	.
1161	TERRA 292	19.92	3.32	0.92	.	.	.	.	.	.	.
1091	B 27	21.17	3.54	0.69	414	24.0	1.64	88	49.75	4.65	3.0
1019	ALL TEX ATLAS	20.94	3.55	0.70	438	14.5	1.42	96	40.72	3.60	3.0
1103	FIBERMAX 989	20.93	3.48	0.67	.	.	.	.	.	.	.
1072	GC 303	16.74	3.20	0.68	.	.	.	.	.	.	.
773	ACALA MAXXA	18.10	3.85	0.54	450	23.5	1.63	89	45.47	3.91	2.8
.	LSD	1.39	0.18	0.12	66.8	9.5	0.20	9	9.08	1.54	0.7

RETURN TO 1999 NCVT COVER PAGE

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

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National Cotton Variety Tests, 1999
Yield, Boll, Seed, Spinning and Data

1999 PIMA REGIONAL COTTON VARIETY TEST

OVERALL SUMMARIES FOR PIMA REGION
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 (%)
974	CONQUISTADOR	1422	3.00	38.1	12.2	179	1.41	0.67	314	5.9
1108	OA 325 (DP-HTO)	1277	3.33	41.1	12.5	177	1.40	0.67	314	5.9
615	PIMA S-7	1241	3.33	38.2	12.3	179	1.44	0.68	302	6.5
471	PIMA S-6	1013	3.17	39.6	12.8	170	1.41	0.67	297	6.6
.	LSD	249	0.37	1.1	0.8	7	0.10	0.05	42	1.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
974	CONQUISTADOR	4.15	1.33	88.0	46.5	11.0	63.3	12.0	3.85	2329	23.38
1108	OA 325 (DP-HTO)	4.23	1.33	87.9	44.0	11.3	66.0	11.3	3.83	1868	22.07
615	PIMA S-7	4.08	1.35	88.9	43.8	10.8	62.8	11.3	3.98	2038	21.45
471	PIMA S-6	3.93	1.30	87.7	40.8	10.8	62.8	11.8	3.83	1623	21.79
.	LSD	0.74	0.09	0.8	7.1	1.0	3.2	0.6	0.56	.	3.09

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	AREALOMETER DATA D (mm2/mm3)	M I	M (%)	p (microns)	w (mg/in)	t (microns)
974	CONQUISTADOR	3.47	0.85	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	3.82	0.63	.	.	.	.	.	.	.
615	PIMA S-7	3.61	0.72	495	33.6	1.83	81	46.33	3.62	2.4
471	PIMA S-6	3.77	0.64	.	.	.	.	.	.	.
.	LSD	0.35	0.18	.	.	.	.	.	.	.

REGION=PIMA

BOLL SIZE, GRAM PER BOLL	
PIMA S-7	3.33
OA 325 (DP-HTO)	3.33
PIMA S-6	3.17
CONQUISTADOR	3.00
LSD	0.37

LINT PERCENT	
OA 325 (DP-HTO)	41.1
PIMA S-6	39.6
PIMA S-7	38.2
CONQUISTADOR	38.1
LSD	1.1

SEED INDEX	
PIMA S-6	12.8
OA 325 (DP-HTO)	12.5
PIMA S-7	12.3
CONQUISTADOR	12.2
LSD	0.8

2.5% S.L. (INCHES)	
PIMA S-7	1.35
OA 325 (DP-HTO)	1.33
CONQUISTADOR	1.33
PIMA S-6	1.30
LSD	0.09

UR (PERCENT)	
PIMA S-7	88.9
CONQUISTADOR	88.0
OA 325 (DP-HTO)	87.9
PIMA S-6	87.7
LSD	0.8

STRENGTH (G/TEX)	
CONQUISTADOR	46.5
OA 325 (DP-HTO)	44.0
PIMA S-7	43.8
PIMA S-6	40.8
LSD	7.1

E	
OA 325 (DP-HTO)	11.3
CONQUISTADOR	11.0
PIMA S-7	10.8
PIMA S-6	10.8
LSD	1.0

MICRONAIRE (SL-HVI)	
PIMA S-7	3.98
CONQUISTADOR	3.85
OA 325 (DP-HTO)	3.83
PIMA S-6	3.83
LSD	0.56

COLORIMETER - Rd	
OA 325 (DP-HTO)	66.0
CONQUISTADOR	63.3
PIMA S-7	62.8
PIMA S-6	62.8
LSD	3.2

COLORIMETER - b	
CONQUISTADOR	12.0
PIMA S-6	11.8
OA 325 (DP-HTO)	11.3
PIMA S-7	11.3
LSD	0.6

MICRONAIRE	
OA 325 (DP-HTO)	4.23
CONQUISTADOR	4.15
PIMA S-7	4.08
PIMA S-6	3.93
LSD	0.74

STELOMETER - E1	
PIMA S-6	6.6
PIMA S-7	6.5
OA 325 (DP-HTO)	5.9
CONQUISTADOR	5.9
LSD	1.1

STELOMETER - T1	
CONQUISTADOR	314
OA 325 (DP-HTO)	314
PIMA S-7	302
PIMA S-6	297
LSD	42

FIBROGRAPH--50% S.L.	
PIMA S-7	0.68
OA 325 (DP-HTO)	0.67
PIMA S-6	0.67
CONQUISTADOR	0.67
LSD	0.05

FIBROGRAPH--2.5% S.L.	
PIMA S-7	1.44
PIMA S-6	1.41
CONQUISTADOR	1.41
OA 325 (DP-HTO)	1.40
LSD	0.10

YARN TENACITY	
CONQUISTADOR	179
PIMA S-7	179
OA 325 (DP-HTO)	177
PIMA S-6	170
LSD	7

AREALOMETER - A (mm2/mm3)	
PIMA S-7	495
CONQUISTADOR	.
OA 325 (DP-HTO)	.
PIMA S-6	.
LSD	.

AREALOMETER - D (mm2/mm3)	
PIMA S-7	33.6
CONQUISTADOR	.
OA 325 (DP-HTO)	.
PIMA S-6	.
LSD	.

AREALOMETER - I	
PIMA S-7	1.83
CONQUISTADOR	.
OA 325 (DP-HTO)	.
PIMA S-6	.
LSD	.

AREALOMETER - M (PERCENT)	
PIMA S-7	81
CONQUISTADOR	.
OA 325 (DP-HTO)	.
PIMA S-6	.
LSD	.

AREALOMETER - p (Microns)	
PIMA S-7	46.33
CONQUISTADOR	.
OA 325 (DP-HTO)	.
PIMA S-6	.
LSD	.

AREALOMETER - w (MG/INCH)	
PIMA S-7	3.62
CONQUISTADOR	.
OA 325 (DP-HTO)	.
PIMA S-6	.
LSD	.

AREALOMETER - t (MICRONS)	
PIMA S-7	2.4
CONQUISTADOR	.
OA 325 (DP-HTO)	.
PIMA S-6	.
LSD	.

SEED YIELD (LB/ACRE)	
CONQUISTADOR	2329
PIMA S-7	2038
OA 325 (DP-HTO)	1868
PIMA S-6	1623
LSD	.

OIL (PERCENT)	
CONQUISTADOR	23.38
OA 325 (DP-HTO)	22.07
PIMA S-6	21.79
PIMA S-7	21.45
LSD	3.09

NITROGEN (PERCENT)	
OA 325 (DP-HTO)	3.82
PIMA S-6	3.77
PIMA S-7	3.61
CONQUISTADOR	3.47
LSD	0.35

FREE GOSSYPOL (PERCENT)	
CONQUISTADOR	0.85
PIMA S-7	0.72
PIMA S-6	0.64
OA 325 (DP-HTO)	0.63
LSD	0.18

VARIETIES COMBINING LOCATIONS — PIMA REGION

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL 2.5% S.L. (inches)	FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
W SIDE FIELD STATION, CA		1745	2.75	37.0	13.0	.	.	.	.	.
KERN, CA		1443	.	39.5	.	.	.	.	.	.
SHAFTER, CA		1103	2.88	37.2	12.1	.	.	.	.	.
LAS CRUCES, NM		1071	.	46.5	11.6	177	1.38	0.67	300	6.4
MARICOPA, AZ		1056	4.00	36.3	13.2	176	1.45	0.67	313	6.1
MERCED, CA		1032	.	39.9	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
W SIDE FIELD STATION, CA		.	.	.	.	.	.	.	.	2968	.
KERN, CA		.	.	.	.	.	.	.	.	2218	.
SHAFTER, CA		.	.	.	.	.	.	.	.	1872	.
LAS CRUCES, NM		4.00	1.30	87.5	42.6	11.0	64.5	11.4	3.76	1229	21.26
MARICOPA, AZ		4.19	1.35	88.7	44.9	10.9	62.9	11.8	3.98	1853	23.08
MERCED, CA		.	.	.	.	.	.	.	.	1563	.

			AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	M I	p (%) (microns)	w (mg/in)	t (microns)
W SIDE FIELD STATION, CA		.	.	.	.	.	.	.	.
KERN, CA		.	.	.	.	.	.	.	.

SHAFTER, CA	.	.	.	.	.	.	.	.	.
LAS CRUCES, NM	3.57	0.77	507	39.5	1.94	77	48.12	3.67	2.4
MARICOPA, AZ	3.77	0.65	484	27.8	1.72	85	44.54	3.56	2.5
MERCED, CA	.	.	.	.	.	.	.	.	.

VARIETIES COMBINING LOCATIONS — PIMA SUB-REGION 61

COMBINING LOCATIONS: SAFFORD,AZ AND LAS CRUCES, NM

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 (%)
974	CONQUISTADOR	1592	.	46.5	11.8	180	1.40	0.68	321	6.2
1108	OA 325 (DP-HTO)	1152	.	48.4	11.9	176	1.34	0.66	305	6.3
615	PIMA S-7	887	.	44.2	10.9	182	1.40	0.69	287	6.6
471	PIMA S-6	653	.	46.9	11.9	171	1.38	0.67	287	6.4

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	SEED MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
974	CONQUISTADOR	4.05	1.30	87.4	47.0	11.0	63.5	12.0	3.65	1826	22.64
1108	OA 325 (DP-HTO)	4.35	1.30	87.1	43.5	11.5	67.0	11.0	3.85	1226	20.57
615	PIMA S-7	3.95	1.30	88.3	42.5	11.0	64.5	11.0	3.75	1119	21.44
471	PIMA S-6	3.65	1.30	87.3	37.5	10.5	63.0	11.5	3.80	744	20.41

				AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)

974	CONQUISTADOR	3.30	0.96	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	3.72	0.65	.	.	.	.	.	.	.
615	PIMA S-7	3.62	0.80	507	39.5	1.94	77	48.12	3.67	2.4
471	PIMA S-6	3.64	0.67	.	.	.	.	.	.	.

VARIETIES COMBINING LOCATIONS — PIMA SUB-REGION 62

COMBINING LOCATIONS: MARICOPA,AZ

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 (%)
1108	OA 325 (DP-HTO)	1205	4.00	38.9	13.0	179	1.47	0.69	323	5.5
974	CONQUISTADOR	1110	4.00	35.0	13.0	179	1.42	0.66	307	5.7
615	PIMA S-7	980	4.00	34.9	12.8	177	1.47	0.67	316	6.4
471	PIMA S-6	931	4.00	36.5	13.9	170	1.44	0.68	307	6.8

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1108	OA 325 (DP-HTO)	4.10	1.35	88.7	44.5	11.0	65.0	11.5	3.80	1895	23.58
974	CONQUISTADOR	4.25	1.35	88.6	46.0	11.0	63.0	12.0	4.05	2065	24.12
615	PIMA S-7	4.20	1.40	89.5	45.0	10.5	61.0	11.5	4.20	1833	21.46
471	PIMA S-6	4.20	1.30	88.0	44.0	11.0	62.5	12.0	3.85	1618	23.17

				AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	NITROGEN	FREE GOSSYPOL	A	D	M	p	w	t

CODE	NAME	(%)	(%)	---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
1108	OA 325 (DP-HTO)	3.92	0.61	.	.	.	.	.	.	.
974	CONQUISTADOR	3.64	0.75	.	.	.	.	.	.	.
615	PIMA S-7	3.60	0.65	484	27.8	1.72	85	44.54	3.56	2.5
471	PIMA S-6	3.91	0.61	.	.	.	.	.	.	.

VARIETIES COMBINING LOCATIONS PIMA SUB-REGION 63

COMBINING LOCATIONS: WEST SIDE FIELD STATION, CA, MERCED, CA, KERN, CA, SHAFTER, CA

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 (%)
974	CONQUISTADOR	1494	2.50	35.5	12.1	.	.	.	.	.
615	PIMA S-7	1394	3.00	37.6	12.7	.	.	.	.	.
1108	OA 325 (DP-HTO)	1327	3.00	39.8	12.6	.	.	.	.	.
471	PIMA S-6	1234	2.75	37.4	12.7	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
974	CONQUISTADOR	.	.	.	.	.	.	.	.	2712	.
615	PIMA S-7	.	.	.	.	.	.	.	.	2320	.
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	2022	.
471	PIMA S-6	.	.	.	.	.	.	.	.	2065	.

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
974	CONQUISTADOR	.	.	.	.	.	.	.	.	.
615	PIMA S-7	.	.	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	.
471	PIMA S-6	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
MARICOPA, AZ

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 (%)
1108	OA 325 (DP-HTO)	1205	4.00	38.9	13.0	179	1.47	0.69	323	5.5
974	CONQUISTADOR	1110	4.00	35.0	13.0	179	1.42	0.66	307	5.7
615	PIMA S-7	980	4.00	34.9	12.8	177	1.47	0.67	316	6.4
471	PIMA S-6	931	4.00	36.5	13.9	170	1.44	0.68	307	6.8

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1108	OA 325 (DP-HTO)	4.10	1.35	88.7	44.5	11.0	65.0	11.5	3.80	1895	23.58
974	CONQUISTADOR	4.25	1.35	88.6	46.0	11.0	63.0	12.0	4.05	2065	24.12
615	PIMA S-7	4.20	1.40	89.5	45.0	10.5	61.0	11.5	4.20	1833	21.46
471	PIMA S-6	4.20	1.30	88.0	44.0	11.0	62.5	12.0	3.85	1618	23.17

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D (mm2/mm3)	M I	p (%)	p (microns)	w (mg/in)	t (microns)
1108	OA 325 (DP-HTO)	3.92	0.61	.	.	.	.	.	.	.
974	CONQUISTADOR	3.64	0.75	.	.	.	.	.	.	.
615	PIMA S-7	3.60	0.65	484	27.8	1.72	85	44.54	3.56	2.5
471	PIMA S-6	3.91	0.61	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
LAS CRUCES, NM

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 (%)
974	CONQUISTADOR	1592	.	46.5	11.8	90	1.40	0.68	321	6.2
1108	OA 325 (DP-HTO)	1152	.	48.4	11.9	88	1.34	0.66	305	6.3
615	PIMA S-7	887	.	44.2	10.9	91	1.40	0.69	287	6.6
471	PIMA S-6	653	.	46.9	11.9	85	1.38	0.67	287	6.4
.	LSD	273	.	1.6	0.5	4	0.10	0.05	48	1.9

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
974	CONQUISTADOR	4.05	1.30	87.4	47.0	11.0	63.5	12.0	3.65	1826
1108	OA 325 (DP-HTO)	4.35	1.30	87.1	43.5	11.5	67.0	11.0	3.85	1226
615	PIMA S-7	3.95	1.30	88.3	42.5	11.0	64.5	11.0	3.75	1119

471	PIMA S-6	3.65	1.30	87.3	37.5	10.5	63.0	11.5	3.80	744
.	LSD	0.64	.	3.1	5.8	1.6	2.8	1.1	0.54	326

					AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D (mm2/mm3)	M I	M (%)	p (microns)	w (mg/in)	t (microns)
974	CONQUISTADOR	0.14	3.30	0.96	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	0.07	3.72	0.65	.	.	.	.	.	.	.
615	PIMA S-7	0.94	3.62	0.80	507	39.5	1.94	77	48.12	3.67	2.4
471	PIMA S-6	0.41	3.64	0.67	.	.	.	.	.	.	.
.	LSD	0.44	0.43	0.03	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
SHAFTER, CA

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 (%)
974	CONQUISTADOR	1193	2.50	35.6	11.9	.	.	.	.	.
615	PIMA S-7	1189	3.00	36.4	12.7	.	.	.	.	.
1108	OA 325 (DP-HTO)	1048	3.00	39.2	11.8	.	.	.	.	.
471	PIMA S-6	981	3.00	37.6	12.0	.	.	.	.	.
.	LSD	224	1.13	0.6	1.6	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)

974	CONQUISTADOR	.	.	.	.	.	.	.	.	2158
615	PIMA S-7	.	.	.	.	.	.	.	.	2079
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	1623
471	PIMA S-6	.	.	.	.	.	.	.	.	1628
.	LSD	.	.	.	.	.	.	.	.	343

					AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A	D (mm2/mm3)	I	M (%)	p (microns)	w (mg/in)	t (microns)
974	CONQUISTADOR	.	.	.	.	.	.	.	.	.	.
615	PIMA S-7	.	.	.	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	.	.
471	PIMA S-6	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
MERCED, CA

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 (%)
615	PIMA S-7	1086	.	38.6	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	978	.	41.2	.	.	.	.	.	.
.	LSD	48	.	1.5	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
615	PIMA S-7	.	.	.	.	.	.	.	.	1731
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	1395
.	LSD	.	.	.	.	.	.	.	.	122

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
615	PIMA S-7	.	.	.	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
KERN, CA

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 (%)
615	PIMA S-7	1473	.	38.6	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	1413	.	40.3	.	.	.	.	.	.
.	LSD	276	.	1.5	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
615	PIMA S-7	.	.	.	.	.	.	.	.	2346
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	2090
.	LSD	.	.	.	.	.	.	.	.	466

VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
615	PIMA S-7	.	.	.	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS
W SIDE FIELD STATION, CA

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 (%)
1108	OA 325 (DP-HTO)	1868	3.00	38.5	13.5	.	.	.	.	.
615	PIMA S-7	1828	3.00	36.9	12.7	.	.	.	.	.
974	CONQUISTADOR	1794	2.50	35.5	12.3	.	.	.	.	.
471	PIMA S-6	1488	2.50	37.3	13.4	.	.	.	.	.

.	LSD	205	1.59	0.6	2.0	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO-MITY (%)	STRE-NGTH (g/tex)	COLORIMETER HUNTER'S E	Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	2980
615	PIMA S-7	.	.	.	.	.	.	.	.	3124
974	CONQUISTADOR	.	.	.	.	.	.	.	.	3266
471	PIMA S-6	.	.	.	.	.	.	.	.	2502
.	LSD	.	.	.	.	.	.	.	.	327

					AREALOMETER DATA					
VARIETY CODE	VARIETY NAME	OIL (%)	NITROGEN (%)	FREE GOSSYPOL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1108	OA 325 (DP-HTO)	.	.	.	.	.	.	.	.	.	.
615	PIMA S-7	.	.	.	.	.	.	.	.	.	.
974	CONQUISTADOR	.	.	.	.	.	.	.	.	.	.
471	PIMA S-6	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

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

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1999 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, 1999
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 fourteenth 3-year testing cycle, beginning in 1999, the national standards were Acala Maxxa, All Tex Atlas, DPL NuCotn 33B, and Suregrow 747. 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.

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

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)
California Agricultural Experiment Station
West Side Field Station
West Side Field Station, CA
U.S. Cotton Field Station
Shafter, CA

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

Arizona Regional Cotton Variety Test

Arizona Agricultural Experiment Station
Cotton Research Center
Maricopa, AZ
Safford Branch Experiment Station
Off-Station Test
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 relications 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 isexpressed 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 strength on the Stelometer.

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

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

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

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

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

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