

1998 National Cotton Variety Test



**Crop Genetics & Production
Research Unit
P O Box 345
Stoneville, MS 38776**

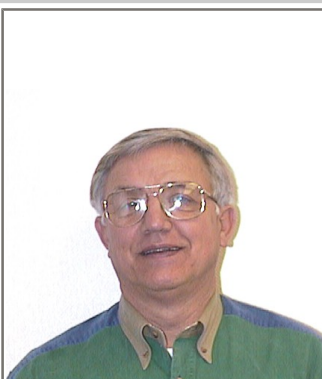
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Any time you see the cotton boll photograph as shown here, you may click on it to return to the top of the document.

**National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data**

Compiled by:



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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, Missouri, 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, 1998.

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

Issued September 1999.

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**United States Department of Agriculture
Agricultural Research Service
Crop Genetics & Production Research Unit
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W SIDE FIELD STATION, CA
WESLACO, TX



Acknowledgments

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Alabama	--	D. Bransby
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Missouri	--	B. Phipps
New Mexico	--	C. E. Barnes, and R. Cantrell (USDA-ARS)
North Carolina	--	D. Bowman
Oklahoma	--	B. Greenhagen
South Carolina	--	L. May (USDA-ARS)
Texas	--	J. R. Gannaway, C. W. Smith, and N. Assidian

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;

Paymaster HS-26

-- Paymaster, Plainview, TX;

STV LA 887

-- Stoneville Pedigreed Seed Company, Stoneville, MS; and

SureGrow 125

-- SureGrow, Stoneville, MS.



Joint Cotton Breeding Policy Committee

(As of January 1998)

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National Cotton Variety Testing Committee

(As of January 1998)

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R. Sheetz, Cargill Research, Plainview, TX
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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 - 1998
Yield Archive File	1960 - 1998
Fiber Quality Archive File	1960 - 1998
Pima Combed Yarn Archive File	1962 - 1998

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 thirteenth 3-year testing cycle, beginning in 1996, the national standards were Acala Maxxa, Paymaster HS 26, Stoneville LA 887, and Suregrow 125. 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

Missouri Agricultural Experiment Station

Delta Center

Portageville, MO

Louisiana Agricultural Experiment Station

Northeast Louisiana Experiment Station

St.

Joseph, LA

Central Regional Cotton Variety Test (Upland Varieties)

Louisiana Agricultural Experiment Station

Red River Valley Experiment Station

Bossier

City, LA

Texas A&M University

Extension Center

Weslaco,

TX

Main Station

College

Station, TX

Off-Station Test

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

Five

Points, CA

U.S. Cotton Field Station

Shafter,

CA

High Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station

Tennessee Valley Substation

Belle

Mina, AL

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

Missouri Agricultural Experiment Station
Delta Center

Portageville, MO

North Carolina State University
Upper Coastal Plain Experiment Station

Rocky

Mount, NC

Texas A&M University
Texas Agricultural Experiment Station

College

Station, TX

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

Marana Experiment Station
Off-Station Test
Yuma

Marana, AZ

Yuma, AZ

California Agricultural Experiment Station
West Side Field Station

Five

Points, CA

Safford Branch Experiment Station
Off-Station Test

Safford

(E), AZ

Safford

(P), AZ

New Mexico Agricultural Experiment Station
Off-Station Test

Las

Cruces, NM

Texas A&M University
Agricultural Research Center

El Paso,

TX

Combed-Yarn Test (American Pima Varieties)**

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

**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 180°F for 4 hours. At the end of 4 hours drying, the kernels were immediately placed in moisture-proof containers and cooled. In proceeding with the HPLC Method every effort was made to prevent the kernels from regaining moisture. The purpose of this modification was to reduce free moisture on the kernels with which the gossypol could interact and become bound to the protein thus reducing the free gossypol content. The use of this modification (starting with 1987 crop) resulted in higher estimates of free gossypol than in previous years. Free gossypol is expressed as a percentage of the mass of the kernel.

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

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

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

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

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

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

Seed index. The mass of 100 fuzzy seeds, in grams.

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:

$$(\text{ LINT YIELD/ACRE }) \times ((100 - \text{ LINT\% }) / \text{ LINT\% })$$

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.

Pima Region Test Results:

El Paso, TX location was not reported due to lack of research plot acreage.

Cotton varieties tested in the 1998 National Cotton Variety Tests:

VARIETIES	CODE	FOUND IN REGIONAL TEST
94 L-25	1064	HIGH QUALITY
94 LD-17	1114	HIGH QUALITY
ACALA 1517-91	788	ARIZONA
ACALA 1517-95	1012	WESTERN
ACALA B 8073	1098	ARIZONA; WESTERN
ACALA MAXXA	773	NATIONAL STANDARD; ALL REGIONS
ACALA PREMA	756	WESTERN
AGRIPRO HS 46	1100	ARIZONA; EASTERN
ALL TEX ATLAS	1019	PLAINS
AP 6101	1115	HIGH QUALITY
AP 6102	1116	HIGH QUALITY
ARK 87-12	1063	HIGH QUALITY
BR 9605	1082	SAN JOAQUIN
BS&D TEJAS	1021	PLAINS

BS&D UTE	1022	PLAINS
C 165	1084	SAN JOAQUIN
C 166	1085	SAN JOAQUIN
CHANEY RANCH 252	975	PIMA DESERT
COKER 83-127	733	PLAINS
CONQUISTADOR	974	PIMA DESERT; PIMA HIGH; PIMA LOW
DELTAPINE 50	689	ARIZONA; BLACKLAND; CENTRAL
DELTAPINE 5415	857	ARIZONA
DELTAPINE 90	649	ARIZONA
DP 5409	919	ARIZONA; CENTRAL
DPL 5111	1095	ARIZONA; DELTA
DPL 5305	1101	ARIZONA; EASTERN
DPL 5415 RR	1102	EASTERN
DPL 9911	977	PIMA HIGH
DPL NuCotn 33B	1094	ARIZONA; DELTA; EASTERN
DPL NuCotn 35	1099	PIMA HIGH
FIBERMAX 832	1117	HIGH QUALITY
FIBERMAX 989	1103	EASTERN; HIGH QUALITY; PIMA DESERT
GA 93-317	1118	HIGH QUALITY
GA 95-155	1119	HIGH QUALITY
GC 120	1070	ARIZONA
GC 303	1072	ARIZONA
H 1560 (HARTZ)	1015	DELTA
HOLLAND 186	1020	PLAINS
HY 39	935	ARIZONA
JACO 6078	1121	HIGH QUALITY
JACO 6123	1122	HIGH QUALITY
JBW-2	1120	HIGH QUALITY
KNH 390X366-7	1123	HIGH QUALITY
MAC 95	1073	ARIZONA
NM SI 1331	1054	PIMA HIGH
NMSI 1601	1110	PIMA HIGH
NMSI 1708	1111	PIMA LOW
OA 207	1088	PLAINS
OA 325 (DP-HTO)	1108	PIMA HIGH
OA 36	1010	ARIZONA
OA 361 (DP-WHITE)	1109	PIMA HIGH
OA 63	1078	ARIZONA
ORO BLANCO	972	PIMA DESERT
PAYMASTER HS 26	578	NATIONAL STANDARD; ALL REGIONS
PAYMASTER PM 1220 RR	1096	ARIZONA; DELTA; EASTERN
PAYMASTER PM 1560 BG	1097	ARIZONA; EASTERN; WESTERN
PAYMASTER PM 183	1023	EASTERN
PD 5582 SEL	1124	HIGH QUALITY
PD 94045	1125	HIGH QUALITY

PIMA S-6	471	PIMA DESERT; PIMA HIGH; PIMA LOW
PIMA S-7	615	PIMA DESERT; PIMA HIGH; PIMA LOW
PM 9506-0276	1126	HIGH QUALITY
PM 9506-0478	1127	BLACKLAND
SG 125	953	NATIONAL STANDARD; ALL REGIONS
SG 180	1074	ARIZONA
SG 404	1016	ARIZONA
SG 747	1104	EASTERN
SOUTHLAND 400	906	PLAINS
SS 9506	990	ARIZONA
STV 373	1105	EASTERN; HIGH QUALITY
STV 474	971	ARIZONA; CENTRAL; DELTA; EASTERN
STV BXN 47	1106	CENTRAL
STV LA 887	893	NATIONAL STANDARD; ALL REGIONS
SUREGROW 501	915	ARIZONA; DELTA; EASTERN
TAMCOT SPHINX	1018	ARIZONA; PLAINS



1998 REGIONAL SHORT SEASON TEST RESULTS

DELTA RESEARCH AND EXTENSION CENTER
DR. D. STEVE CALHOUN

At the request of Dr. Calhoun, please access the 1998 Regional Short Season Test Results through the Delta Research and Extension Center Home Page.

[1998 REGIONAL SHORT SEASON TEST](#)

1998 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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National Cotton Variety Test Program
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Other links:

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[Jamie Whitten Delta States Research Center](#)

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either the Jamie Whitten Delta States Research Center or the
Crop Genetics and Production Research Unit sites**



1998 National Cotton Variety Test



Crop Genetics & Production Research Unit
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National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data

1998 EASTERN REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

EASTERN REGION

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1101	DPL 5305	834	4.70	41.7	9.3	127	1.10	0.55	208	7.7
915	SUREGROW 501	815	4.79	42.7	9.4	134	1.09	0.57	231	8.6
1103	FIBERMAX 989	812	5.02	41.4	9.8	137	1.10	0.55	212	7.3
953	SG 125	800	4.92	40.7	9.4	114	1.09	0.55	188	9.7
1097	PAYMASTER PM 1560 BG	795	4.90	42.2	9.7	122	1.07	0.54	209	8.2
1104	SG 747	791	4.96	41.9	9.4	107	1.08	0.55	190	9.4
893	STV LA 887	782	5.55	42.6	10.1	123	1.09	0.54	204	8.2
1105	STV 373	780	5.72	42.5	10.6	113	1.08	0.53	187	8.1

1100	AGRIPRO HS 46	777	4.76	41.1	9.2	127	1.10	0.54	212	8.5
1094	DPL NuCotn 33B	768	4.53	39.8	8.9	121	1.10	0.53	193	9.0
1106	STV BXN 47	753	4.31	42.6	9.4	112	1.08	0.54	188	7.9
1102	DPL 5415 RR	738	4.45	41.5	8.5	118	1.08	0.53	200	8.8
971	STV 474	724	4.40	42.6	9.5	112	1.06	0.54	194	8.0
1096	PAYMASTER PM 1220 RR	720	5.27	40.9	10.4	120	1.08	0.55	195	8.3
578	PAYMASTER HS 26	664	5.74	38.4	10.7	123	1.03	0.54	225	9.3
773	ACALA MAXXA	571	5.32	41.8	11.5	150	1.12	0.57	243	7.3
.	LSD	.	.	.	.	.	.	.	.	.

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		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	b			
1101	DPL 5305	4.67	1.10	82.4	30.8	9.8	76.0	8.3	4.82	1125	17.66
915	SUREGROW 501	4.57	1.05	82.3	31.3	10.7	74.7	8.9	4.85	1125	17.45
1103	FIBERMAX 989	4.28	1.10	82.6	31.2	9.6	75.8	8.3	4.17	1151	19.94
953	SG 125	4.47	1.08	82.9	27.2	10.3	74.2	8.5	4.52	1112	18.42
1097	PAYMASTER PM 1560 BG	4.78	1.03	82.8	28.2	10.0	73.2	8.4	4.95	1156	18.52
1104	SG 747	4.78	1.07	82.4	27.3	10.7	74.3	7.8	4.77	1097	16.98
893	STV LA 887	4.67	1.07	82.1	30.5	10.0	72.0	9.2	4.57	1109	18.47
1105	STV 373	4.50	1.03	81.8	25.0	9.5	75.2	8.8	4.67	1036	17.85
1100	AGRIPRO HS 46	4.48	1.07	82.5	31.0	9.9	73.0	8.5	4.37	1105	19.64
1094	DPL NuCotn 33B	4.70	1.07	82.1	29.5	10.0	76.8	7.4	4.77	1158	17.80
1106	STV BXN 47	4.65	1.07	81.8	28.0	9.9	71.8	9.4	4.80	999	17.82
1102	DPL 5415 RR	4.85	1.05	82.1	28.8	10.0	75.5	7.7	4.87	1088	17.73
971	STV 474	4.85	1.03	81.9	27.8	9.9	73.0	9.0	4.95	944	18.17
1096	PAYMASTER PM 1220 RR	4.98	1.05	82.1	28.3	10.0	75.7	9.0	5.18	951	18.05
578	PAYMASTER HS 26	4.90	1.03	82.3	30.2	10.7	73.3	8.1	4.92	1062	19.73
773	ACALA MAXXA	4.07	1.13	83.6	33.7	9.9	76.2	8.5	4.20	768	18.97
.	LSD	.	.	.	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN	GOSSYPOL	A	D	M	p	w	t
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CODE	NAME	(%)	(%)	--- (mm ² /mm ³) ---		I	(%)	(microns)	(mg/in)	(microns)
1101	DPL 5305	3.73	0.69
915	SUREGROW 501	3.57	0.82
1103	FIBERMAX 989	3.51	0.59	.	.	.	.	.	.	.
953	SG 125	3.70	0.62	445	25.7	1.67	87	47.28	4.12	2.7
1097	PAYMASTER PM 1560 BG	3.67	0.54	.	.	.	.	.	.	.
1104	SG 747	3.70	0.59	.	.	.	.	.	.	.
893	STV LA 887	3.48	0.66	440	19.8	1.54	92	43.93	3.87	2.9
1105	STV 373	3.81	0.66	.	.	.	.	.	.	.
1100	AGRIPRO HS 46	3.60	0.71	.	.	.	.	.	.	.
1094	DPL NuCotn 33B	3.32	0.68	.	.	.	.	.	.	.
1106	STV BXN 47	3.68	0.93	.	.	.	.	.	.	.
1102	DPL 5415 RR	3.35	0.68	.	.	.	.	.	.	.
971	STV 474	3.74	0.81	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	3.85	0.63	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.69	0.71	418	18.2	1.51	93	45.23	4.18	3.0
773	ACALA MAXXA	4.04	0.55	489	20.1	1.54	91	39.76	3.15	2.6
.	LSD	.	.	.	.	.	.	.	.	.

BOLL SIZE, GRAM PER BOLL

LINT PERCENT

SEED INDEX

PAYMASTER HS 26	5.74	SUREGROW 501	42.7	ACALA MAXXA	11.5
STV 373	5.72	STV 474	42.6	PAYMASTER HS 26	10.7
STV LA 887	5.55	STV BXN 47	42.6	STV 373	10.6
ACALA MAXXA	5.32	STV LA 887	42.6	PAYMASTER PM 1220 RR	10.4
PAYMASTER PM 1220 RR	5.27	STV 373	42.5	STV LA 887	10.1
FIBERMAX 989	5.02	PAYMASTER PM 1560 BG	42.2	FIBERMAX 989	9.8
SG 747	4.96	SG 747	41.9	PAYMASTER PM 1560 BG	9.7
SG 125	4.92	ACALA MAXXA	41.8	STV 474	9.5
PAYMASTER PM 1560 BG	4.90	DPL 5305	41.7	SUREGROW 501	9.4
SUREGROW 501	4.79	DPL 5415 RR	41.5	SG 125	9.4
AGRIPRO HS 46	4.76	FIBERMAX 989	41.4	STV BXN 47	9.4
DPL 5305	4.70	AGRIPRO HS 46	41.1	SG 747	9.4
DPL NuCotn 33B	4.53	PAYMASTER PM 1220 RR	40.9	DPL 5305	9.3

DPL 5415 RR	4.45	SG 125	40.7	AGRIPRO HS 46	9.2
STV 474	4.40	DPL NuCotn 33B	39.8	DPL NuCotn 33B	8.9
STV BXN 47	4.31	PAYMASTER HS 26	38.4	DPL 5415 RR	8.5

2.5% S.L. (INCHES)

ACALA MAXXA	1.13
DPL 5305	1.10
FIBERMAX 989	1.10
SG 125	1.08
STV LA 887	1.07
STV BXN 47	1.07
SG 747	1.07
AGRIPRO HS 46	1.07
DPL NuCotn 33B	1.07
PAYMASTER PM 1220 RR	1.05
SUREGROW 501	1.05
DPL 5415 RR	1.05
PAYMASTER HS 26	1.03
STV 373	1.03
PAYMASTER PM 1560 BG	1.03
STV 474	1.03

UR (PERCENT)

ACALA MAXXA	83.6
SG 125	82.9
PAYMASTER PM 1560 BG	82.8
FIBERMAX 989	82.6
AGRIPRO HS 46	82.5
SG 747	82.4
DPL 5305	82.4
PAYMASTER HS 26	82.3
SUREGROW 501	82.3
STV LA 887	82.1
DPL NuCotn 33B	82.1
PAYMASTER PM 1220 RR	82.1
DPL 5415 RR	82.1
STV 474	81.9
STV BXN 47	81.8
STV 373	81.8

STRENGTH (G/TEX)

ACALA MAXXA	33.7
SUREGROW 501	31.3
FIBERMAX 989	31.2
AGRIPRO HS 46	31.0
DPL 5305	30.8
STV LA 887	30.5
PAYMASTER HS 26	30.2
DPL NuCotn 33B	29.5
DPL 5415 RR	28.8
PAYMASTER PM 1220 RR	28.3
PAYMASTER PM 1560 BG	28.2
STV BXN 47	28.0
STV 474	27.8
SG 747	27.3
SG 125	27.2
STV 373	25.0

E

SUREGROW 501	10.7
PAYMASTER HS 26	10.7
SG 747	10.7
SG 125	10.3
DPL NuCotn 33B	10.0
PAYMASTER PM 1220 RR	10.0
PAYMASTER PM 1560 BG	10.0
DPL 5415 RR	10.0
STV LA 887	10.0

MICRONAIRE (SL-HVI)

PAYMASTER PM 1220 RR	5.18
PAYMASTER PM 1560 BG	4.95
STV 474	4.95
PAYMASTER HS 26	4.92
DPL 5415 RR	4.87
SUREGROW 501	4.85
DPL 5305	4.82
STV BXN 47	4.80
SG 747	4.77

COLORIMETER - Rd

DPL NuCotn 33B	76.8
ACALA MAXXA	76.2
DPL 5305	76.0
FIBERMAX 989	75.8
PAYMASTER PM 1220 RR	75.7
DPL 5415 RR	75.5
STV 373	75.2
SUREGROW 501	74.7
SG 747	74.3

ACALA MAXXA	9.9	DPL NuCotn 33B	4.77	SG 125	74.2
AGRIPRO HS 46	9.9	STV 373	4.67	PAYMASTER HS 26	73.3
STV 474	9.9	STV LA 887	4.57	PAYMASTER PM 1560 BG	73.2
STV BXN 47	9.9	SG 125	4.52	STV 474	73.0
DPL 5305	9.8	AGRIPRO HS 46	4.37	AGRIPRO HS 46	73.0
FIBERMAX 989	9.6	ACALA MAXXA	4.20	STV LA 887	72.0
STV 373	9.5	FIBERMAX 989	4.17	STV BXN 47	71.8

 COLORIMETER - b

 MICRONAIRE

 STELOMETER - E1

STV BXN 47	9.4	PAYMASTER PM 1220 RR	4.98	SG 125	9.7
STV LA 887	9.2	PAYMASTER HS 26	4.90	SG 747	9.4
PAYMASTER PM 1220 RR	9.0	STV 474	4.85	PAYMASTER HS 26	9.3
STV 474	9.0	DPL 5415 RR	4.85	DPL NuCotn 33B	9.0
SUREGROW 501	8.9	PAYMASTER PM 1560 BG	4.78	DPL 5415 RR	8.8
STV 373	8.8	SG 747	4.78	SUREGROW 501	8.6
AGRIPRO HS 46	8.5	DPL NuCotn 33B	4.70	AGRIPRO HS 46	8.5
SG 125	8.5	STV LA 887	4.67	PAYMASTER PM 1220 RR	8.3
ACALA MAXXA	8.5	DPL 5305	4.67	STV LA 887	8.2
PAYMASTER PM 1560 BG	8.4	STV BXN 47	4.65	PAYMASTER PM 1560 BG	8.2
DPL 5305	8.3	SUREGROW 501	4.57	STV 373	8.1
FIBERMAX 989	8.3	STV 373	4.50	STV 474	8.0
PAYMASTER HS 26	8.1	AGRIPRO HS 46	4.48	STV BXN 47	7.9
SG 747	7.8	SG 125	4.47	DPL 5305	7.7
DPL 5415 RR	7.7	FIBERMAX 989	4.28	ACALA MAXXA	7.3
DPL NuCotn 33B	7.4	ACALA MAXXA	4.07	FIBERMAX 989	7.3

 STELOMETER - T1

 FIBROGRAPH--50% S.L.

 FIBROGRAPH--2.5% S.L.

ACALA MAXXA	243	SUREGROW 501	0.57	ACALA MAXXA	1.12
SUREGROW 501	231	ACALA MAXXA	0.57	DPL 5305	1.10
PAYMASTER HS 26	225	DPL 5305	0.55	FIBERMAX 989	1.10
AGRIPRO HS 46	212	FIBERMAX 989	0.55	AGRIPRO HS 46	1.10
FIBERMAX 989	212	PAYMASTER PM 1220 RR	0.55	DPL NuCotn 33B	1.10

PAYMASTER PM 1560 BG	209	SG 747	0.55	SUREGROW 501	1.09
DPL 5305	208	SG 125	0.55	SG 125	1.09
STV LA 887	204	PAYMASTER PM 1560 BG	0.54	STV LA 887	1.09
DPL 5415 RR	200	STV LA 887	0.54	SG 747	1.08
PAYMASTER PM 1220 RR	195	AGRIPRO HS 46	0.54	DPL 5415 RR	1.08
STV 474	194	STV BXN 47	0.54	PAYMASTER PM 1220 RR	1.08
DPL NuCotn 33B	193	PAYMASTER HS 26	0.54	STV 373	1.08
SG 747	190	STV 474	0.54	STV BXN 47	1.08
SG 125	188	DPL 5415 RR	0.53	PAYMASTER PM 1560 BG	1.07
STV BXN 47	188	DPL NuCotn 33B	0.53	STV 474	1.06
STV 373	187	STV 373	0.53	PAYMASTER HS 26	1.03

 YARN TENACITY

ACALA MAXXA	150
FIBERMAX 989	137
SUREGROW 501	134
DPL 5305	127
AGRIPRO HS 46	127
PAYMASTER HS 26	123
STV LA 887	123
PAYMASTER PM 1560 BG	122
DPL NuCotn 33B	121
PAYMASTER PM 1220 RR	120
DPL 5415 RR	118
SG 125	114
STV 373	113
STV BXN 47	112
STV 474	112
SG 747	107

 AREALOMETER - A (mm²/mm³)

ACALA MAXXA	489
SG 125	445
STV LA 887	440
PAYMASTER HS 26	418
FIBERMAX 989	.
SUREGROW 501	.
DPL 5305	.
AGRIPRO HS 46	.
PAYMASTER PM 1560 BG	.
DPL NuCotn 33B	.
PAYMASTER PM 1220 RR	.
DPL 5415 RR	.
STV 373	.
STV BXN 47	.
STV 474	.
SG 747	.

 AREALOMETER - D (mm²/mm³)

SG 125	25.7
ACALA MAXXA	20.1
STV LA 887	19.8
PAYMASTER HS 26	18.2
FIBERMAX 989	.
SUREGROW 501	.
DPL 5305	.
AGRIPRO HS 46	.
PAYMASTER PM 1560 BG	.
DPL NuCotn 33B	.
PAYMASTER PM 1220 RR	.
DPL 5415 RR	.
STV 373	.
STV BXN 47	.
STV 474	.
SG 747	.

 AREALOMETER - I

 AREALOMETER - M (PERCENT)

 AREALOMETER - p (Microns)

SG 125	1.67	PAYMASTER HS 26	93	SG 125	47.28
ACALA MAXXA	1.54	STV LA 887	92	PAYMASTER HS 26	45.23
STV LA 887	1.54	ACALA MAXXA	91	STV LA 887	43.93
PAYMASTER HS 26	1.51	SG 125	87	ACALA MAXXA	39.76
FIBERMAX 989	.	FIBERMAX 989	.	FIBERMAX 989	.
SUREGROW 501	.	SUREGROW 501	.	SUREGROW 501	.
DPL 5305	.	DPL 5305	.	DPL 5305	.
AGRIPRO HS 46	.	AGRIPRO HS 46	.	AGRIPRO HS 46	.
PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.
DPL NuCotn 33B	.	DPL NuCotn 33B	.	DPL NuCotn 33B	.
PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.
DPL 5415 RR	.	DPL 5415 RR	.	DPL 5415 RR	.
STV 373	.	STV 373	.	STV 373	.
STV BXN 47	.	STV BXN 47	.	STV BXN 47	.
STV 474	.	STV 474	.	STV 474	.
SG 747	.	SG 747	.	SG 747	.

AREALOMETER - w (MG/INCH)

AREALOMETER - t (MICRONS)

SEED YIELD (LB/ACRE)

PAYMASTER HS 26	4.18	PAYMASTER HS 26	3.0	DPL NuCotn 33B	1158
SG 125	4.12	STV LA 887	2.9	PAYMASTER PM 1560 BG	1156
STV LA 887	3.87	SG 125	2.7	FIBERMAX 989	1151
ACALA MAXXA	3.15	ACALA MAXXA	2.6	SUREGROW 501	1125
FIBERMAX 989	.	FIBERMAX 989	.	DPL 5305	1125
SUREGROW 501	.	SUREGROW 501	.	SG 125	1112
DPL 5305	.	DPL 5305	.	STV LA 887	1109
AGRIPRO HS 46	.	AGRIPRO HS 46	.	AGRIPRO HS 46	1105
PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.	SG 747	1097
DPL NuCotn 33B	.	DPL NuCotn 33B	.	DPL 5415 RR	1088
PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.	PAYMASTER HS 26	1062
DPL 5415 RR	.	DPL 5415 RR	.	STV 373	1036
STV 373	.	STV 373	.	STV BXN 47	999
STV BXN 47	.	STV BXN 47	.	PAYMASTER PM 1220 RR	951
STV 474	.	STV 474	.	STV 474	944
SG 747	.	SG 747	.	ACALA MAXXA	768

OIL (PERCENT)		NITROGEN (PERCENT)		FREE GOSSYPOL (PERCENT)	
FIBERMAX 989	19.94	ACALA MAXXA	4.04	STV BXN 47	0.93
PAYMASTER HS 26	19.73	PAYMASTER PM 1220 RR	3.85	SUREGROW 501	0.82
AGRIPRO HS 46	19.64	STV 373	3.81	STV 474	0.81
ACALA MAXXA	18.97	STV 474	3.74	PAYMASTER HS 26	0.71
PAYMASTER PM 1560 BG	18.52	DPL 5305	3.73	AGRIPRO HS 46	0.71
STV LA 887	18.47	SG 125	3.70	DPL 5305	0.69
SG 125	18.42	SG 747	3.70	DPL NuCotn 33B	0.68
STV 474	18.17	PAYMASTER HS 26	3.69	DPL 5415 RR	0.68
PAYMASTER PM 1220 RR	18.05	STV BXN 47	3.68	STV 373	0.66
STV 373	17.85	PAYMASTER PM 1560 BG	3.67	STV LA 887	0.66
STV BXN 47	17.82	AGRIPRO HS 46	3.60	PAYMASTER PM 1220 RR	0.63
DPL NuCotn 33B	17.80	SUREGROW 501	3.57	SG 125	0.62
DPL 5415 RR	17.73	FIBERMAX 989	3.51	FIBERMAX 989	0.59
DPL 5305	17.66	STV LA 887	3.48	SG 747	0.59
SUREGROW 501	17.45	DPL 5415 RR	3.35	ACALA MAXXA	0.55
SG 747	16.98	DPL NuCotn 33B	3.32	PAYMASTER PM 1560 BG	0.54

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE			TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
BELLE MINA, AL	898	4.87	41.7	10.3	131	1.13	0.56	207	8.7
AUBURN, AL	793	4.44	42.5	9.3	116	1.03	0.52	206	8.8

FLORENCE, SC 582 5.57 40.4 9.6 120 1.09 0.55 202 7.7

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

LOCATION	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO- MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
						HUNTER'S Rd	b			
BELLE MINA, AL	4.41	1.12	83.5	29.9	10.2	75.9	9.3	4.53	1229	18.20
AUBURN, AL	4.82	1.01	81.6	29.7	10.1	73.9	9.2	4.86	1103	18.37
FLORENCE, SC	4.69	1.06	81.9	28.3	9.8	73.4	7.0	4.74	853	18.40

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

LOCATION	FREE NITROGEN (%)	GOSSYPOL (%)	A ---(mm2/mm3)---	D	M I	p (microns)	w (mg/in)	t (microns)	
									BELLE MINA, AL	3.49	0.80	458	19.8	1.54	91	42.34	3.59	2.8
AUBURN, AL	3.69	0.65	442	17.5	1.49	94	42.59	3.77	2.9
FLORENCE, SC	3.79	0.59	444	25.5	1.67	87	47.23	4.13	2.8

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		STELOMETER	
							2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
915	SUREGROW 501	922	4.39	43.1	8.7	125	1.03	0.54	221	8.3
1104	SG 747	912	4.27	42.6	9.0	104	1.03	0.52	186	11.0

		-----AREALOMETER DATA-----								
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A	D	I	M	p	w	t
				---(mm2/mm3)---			(%)	(microns)	(mg/in)	(microns)
915	SUREGROW 501	3.70	0.77	.	.	.	.	.	.	.
1104	SG 747	3.59	0.52	.	.	.	.	.	.	.
953	SG 125	3.72	0.56	449	25.0	1.66	87	46.38	3.99	2.7
1100	AGRIPRO HS 46	3.61	0.69	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	3.76	0.59	.	.	.	.	.	.	.
1105	STV 373	3.98	0.63	.	.	.	.	.	.	.
971	STV 474	3.78	0.79	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.70	0.65	409	16.5	1.47	94	45.09	4.26	3.1
1097	PAYMASTER PM 1560 BG	3.76	0.51	.	.	.	.	.	.	.
1103	FIBERMAX 989	3.70	0.60	.	.	.	.	.	.	.
893	STV LA 887	3.32	0.65	415	16.0	1.46	95	44.01	4.10	3.1
1101	DPL 5305	3.65	0.69	.	.	.	.	.	.	.
1094	DPL NuCotn 33B	3.39	0.65	.	.	.	.	.	.	.
1106	STV BXN 47	3.74	0.87	.	.	.	.	.	.	.
1102	DPL 5415 RR	3.71	0.69	.	.	.	.	.	.	.
773	ACALA MAXXA	3.93	0.52	494	12.5	1.37	98	34.87	2.73	2.7
.	LSD	.	.	.	.	.	.	.	.	.

FLORENCE, SC

VARIETY CODE	VARIETY NAME	LINT	BOLL	YARN			DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)	LINT PERCENT	SEED INDEX	TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1101	DPL 5305	735	5.25	40.6	9.0	120	1.11	0.55	207	5.5
953	SG 125	671	5.62	40.1	9.8	109	1.09	0.54	180	9.0
1103	FIBERMAX 989	639	5.70	39.5	9.5	139	1.13	0.56	220	6.1
1097	PAYMASTER PM 1560 BG	618	5.59	42.1	9.8	116	1.07	0.56	204	7.7
915	SUREGROW 501	613	5.20	41.2	9.4	133	1.11	0.58	222	8.7
1096	PAYMASTER PM 1220 RR	613	6.04	41.1	10.6	122	1.09	0.56	199	7.9

1106	STV BXN 47	609	4.87	40.8	9.2	108	1.09	0.53	175	7.7
1094	DPL NuCotn 33B	600	5.31	38.9	8.8	119	1.11	0.55	206	8.0
1102	DPL 5415 RR	591	5.30	39.6	8.8	113	1.12	0.57	201	7.8
1100	AGRIPRO HS 46	589	5.26	39.3	9.1	124	1.11	0.55	211	8.2
1104	SG 747	589	5.50	40.7	9.4	107	1.09	0.55	189	9.3
1105	STV 373	555	5.99	41.6	10.1	111	1.08	0.53	177	7.7
893	STV LA 887	519	5.97	40.7	10.5	121	1.11	0.54	203	7.3
971	STV 474	517	5.10	41.1	9.3	109	1.05	0.53	181	7.2
578	PAYMASTER HS 26	464	6.39	38.9	10.4	126	1.04	0.54	217	9.3
773	ACALA MAXXA	396	6.02	40.9	10.6	150	1.11	0.57	247	6.2
.	LSD	135	0.19	.	.	8	0.03	0.04	.	1.2

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	E	COLORIMETER HUNTER'S		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							Rd	b			
1101	DPL 5305	4.80	1.10	82.0	28.5	9.5	75.0	6.3	4.95	1112	18.11
953	SG 125	4.70	1.05	82.2	26.5	10.0	73.5	7.1	4.75	957	19.37
1103	FIBERMAX 989	4.35	1.10	81.6	30.5	9.3	75.5	6.4	4.20	1100	18.90
1097	PAYMASTER PM 1560 BG	5.15	1.00	81.9	27.5	10.0	72.5	6.8	5.25	878	19.12
915	SUREGROW 501	4.70	1.05	82.6	30.0	10.0	72.0	7.1	4.75	860	16.64
1096	PAYMASTER PM 1220 RR	5.15	1.05	82.2	28.0	10.0	74.0	7.6	5.25	689	18.23
1106	STV BXN 47	4.95	1.10	82.2	26.0	9.6	70.5	7.3	4.90	931	17.94
1094	DPL NuCotn 33B	4.60	1.10	82.3	28.5	10.0	76.5	6.5	4.70	947	17.78
1102	DPL 5415 RR	4.65	1.05	82.1	28.5	10.0	74.5	6.5	4.90	876	17.60
1100	AGRIPRO HS 46	4.35	1.10	82.0	30.0	9.8	73.0	6.6	4.20	900	20.49
1104	SG 747	4.85	1.10	82.0	27.0	11.0	74.0	7.8	4.80	874	16.61
1105	STV 373	4.50	1.00	80.4	24.0	9.2	73.5	7.3	4.60	776	17.30
893	STV LA 887	4.50	1.10	81.8	28.5	9.9	72.0	7.6	4.50	792	19.27
971	STV 474	4.75	1.00	81.3	25.5	9.6	70.0	7.5	4.95	626	17.65
578	PAYMASTER HS 26	4.90	1.00	82.0	30.5	10.0	73.0	6.9	4.95	770	20.40
773	ACALA MAXXA	4.10	1.10	83.0	33.0	9.9	75.5	7.5	4.20	552	19.07
.	LSD	0.34	.	.	.	.	1.9	0.6	.	235	1.30

VARIETY CODE	VARIETY NAME	FREE		A --- (mm ² /mm ³) ---	D	M (%)	p (microns)	w (mg/in)	t (microns)	
		NITROGEN (%)	GOSSYPOL (%)							
953	SG 125	3.94	0.53	421	26.0	1.68	87	50.17	4.61	2.9
1103	FIBERMAX 989	3.46	0.50	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.94	0.50	.	.	.	.	.	.	.
915	SUREGROW 501	3.73	0.73	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	4.01	0.60	.	.	.	.	.	.	.
1106	STV BXN 47	3.74	0.79	.	.	.	.	.	.	.
1094	DPL NuCotn 33B	3.35	0.58	.	.	.	.	.	.	.
1102	DPL 5415 RR	3.30	0.63	.	.	.	.	.	.	.
1100	AGRIPRO HS 46	3.85	0.60	.	.	.	.	.	.	.
1104	SG 747	3.74	0.57	.	.	.	.	.	.	.
1105	STV 373	3.93	0.51	.	.	.	.	.	.	.
893	STV LA 887	3.77	0.56	459	26.8	1.70	86	46.42	3.92	2.7
971	STV 474	3.80	0.59	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.93	0.65	422	20.0	1.55	91	46.11	4.23	3.0
773	ACALA MAXXA	4.18	0.54	475	29.3	1.75	84	46.22	3.77	2.6
.	LSD	0.23	0.11	.	.	0.15	.	.	.	.

BELLE MINA, AL

VARIETY CODE	VARIETY NAME	LINT	BOLL	YARN			DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)	LINT PERCENT	SEED INDEX	TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
893	STV LA 887	1057	5.61	42.7	10.5	141	1.13	0.56	194	8.5
1103	FIBERMAX 989	1026	5.08	41.4	10.5	150	1.17	0.57	200	8.3
1101	DPL 5305	1013	4.76	42.2	9.8	134	1.15	0.57	212	9.0
1097	PAYMASTER PM 1560 BG	991	4.61	41.6	9.9	132	1.11	0.54	214	8.3
1105	STV 373	970	5.84	42.4	11.8	119	1.13	0.55	198	8.8
1094	DPL NuCotn 33B	955	4.18	39.8	9.2	127	1.15	0.55	175	9.3
1106	STV BXN 47	924	4.28	43.3	10.4	123	1.13	0.57	197	7.8
915	SUREGROW 501	909	4.79	43.9	10.2	144	1.13	0.59	250	8.8
1102	DPL 5415 RR	907	4.32	40.8	8.7	134	1.13	0.56	216	9.3
1100	AGRIPRO HS 46	896	4.52	41.6	9.6	139	1.15	0.55	219	8.8
1104	SG 747	872	5.11	42.5	9.9	111	1.13	0.57	195	7.8

971	STV 474	858	4.40	42.9	10.2	125	1.13	0.56	214	8.3
953	SG 125	836	4.83	41.5	9.9	123	1.15	0.57	189	10.0
578	PAYMASTER HS 26	743	5.60	38.7	11.2	119	1.04	0.55	211	9.5
1096	PAYMASTER PM 1220 RR	713	4.83	40.0	10.7	120	1.11	0.56	203	8.0
773	ACALA MAXXA	697	5.15	41.6	12.4	154	1.19	0.59	224	8.3
.	LSD	116	0.66	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	E	COLORIMETER HUNTER'S		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							Rd	b			
893	STV LA 887	4.30	1.10	82.9	33.0	10.0	72.0	10.0	4.30	1445	17.50
1103	FIBERMAX 989	4.10	1.20	85.2	33.0	10.0	76.0	8.7	3.90	1436	20.81
1101	DPL 5305	4.40	1.10	83.3	32.0	10.0	79.0	9.5	4.70	1360	17.35
1097	PAYMASTER PM 1560 BG	4.20	1.10	84.5	26.0	10.0	76.0	9.7	4.50	1389	18.10
1105	STV 373	4.50	1.10	84.2	26.0	9.7	77.0	9.1	4.70	1278	19.19
1094	DPL NuCotn 33B	4.30	1.10	82.6	30.0	10.0	77.0	8.2	4.30	1440	16.90
1106	STV BXN 47	4.20	1.10	81.8	30.0	10.0	73.0	9.9	4.60	1139	18.88
915	SUREGROW 501	4.40	1.10	82.5	33.0	11.0	77.0	9.7	4.90	1159	17.58
1102	DPL 5415 RR	4.60	1.10	83.2	29.0	10.0	77.0	8.6	4.50	1412	17.16
1100	AGRIPRO HS 46	4.50	1.10	83.3	31.0	10.0	73.0	9.0	4.20	1230	18.24
1104	SG 747	4.70	1.10	83.1	27.0	10.0	76.0	9.5	4.80	1130	16.93
971	STV 474	4.80	1.10	83.2	30.0	10.0	77.0	9.4	4.80	1133	18.36
953	SG 125	4.20	1.20	84.1	28.0	11.0	76.0	9.4	4.20	1088	18.08
578	PAYMASTER HS 26	4.90	1.10	83.8	29.0	11.0	75.0	8.7	4.90	1061	20.08
1096	PAYMASTER PM 1220 RR	4.60	1.10	83.0	28.0	10.0	77.0	9.3	5.10	1038	17.50
773	ACALA MAXXA	3.80	1.20	85.2	34.0	9.9	76.0	9.5	4.10	924	18.57
.	LSD	.	.	.	.	.	.	.	.	296	.

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A --- (mm ² /mm ³) ---	D	M I (%)	p (microns)	w (mg/in)	t (microns)	
893	STV LA 887	3.36	0.76	445	16.5	1.47	94	41.36	3.59	2.9

1103	FIBERMAX 989	3.38	0.66	.	.	.	.	.	.	.
1101	DPL 5305	3.61	0.80	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.32	0.62	.	.	.	.	.	.	.
1105	STV 373	3.53	0.85	.	.	.	.	.	.	.
1094	DPL NuCotn 33B	3.23	0.82	.	.	.	.	.	.	.
1106	STV BXN 47	3.56	1.12	.	.	.	.	.	.	.
915	SUREGROW 501	3.28	0.95	.	.	.	.	.	.	.
1102	DPL 5415 RR	3.05	0.71	.	.	.	.	.	.	.
1100	AGRIPRO HS 46	3.35	0.83	.	.	.	.	.	.	.
1104	SG 747	3.78	0.67	.	.	.	.	.	.	.
971	STV 474	3.64	1.06	.	.	.	.	.	.	.
953	SG 125	3.45	0.78	465	26.0	1.68	86	45.30	3.76	2.6
578	PAYMASTER HS 26	3.44	0.82	424	18.0	1.50	93	44.49	4.05	3.0
1096	PAYMASTER PM 1220 RR	3.78	0.70
773	ACALA MAXXA	4.02	0.60	499	18.5	1.51	92	38.19	2.96	2.5
.	LSD

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National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data

1998 DELTA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

DELTA REGION

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)			TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1095	DPL 5111	1125	4.93	36.9	10.3	133	1.11	0.57	219	6.5
1097	PAYMASTER PM 1560 BG	1060	5.11	38.5	10.3	125	1.13	0.58	201	8.0
915	SUREGROW 501	1032	4.76	39.9	9.4	140	1.15	0.58	217	8.2
953	SG 125	1018	5.12	38.3	9.8	119	1.14	0.57	190	8.4
1096	PAYMASTER PM 1220 RR	977	5.18	38.5	12.1	123	1.15	0.59	195	7.2
971	STV 474	973	4.82	39.5	10.0	123	1.13	0.58	189	7.5
1094	DPL NuCotn 33B	927	4.68	37.1	9.0	120	1.12	0.55	202	7.7

893	STV LA 887	867	5.24	38.3	10.3	135	1.15	0.57	221	7.4
578	PAYMASTER HS 26	789	5.11	35.8	11.9	126	1.10	0.56	221	8.2
773	ACALA MAXXA	373	4.96	36.8	11.5	147	1.16	0.59	233	6.9
.	LSD	.	.	.	.	.	.	.	.	.

 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		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	b (Reading)			
1095	DPL 5111	4.88	1.10	83.1	32.2	9.9	67.7	7.6	4.92	1815	19.15
1097	PAYMASTER PM 1560 BG	4.68	1.10	83.9	28.7	9.8	69.4	6.7	4.73	1659	19.75
915	SUREGROW 501	4.60	1.12	83.8	31.5	10.1	68.8	7.3	4.72	1609	18.90
953	SG 125	4.58	1.10	83.5	27.2	9.9	68.7	7.5	4.45	1680	18.31
1096	PAYMASTER PM 1220 RR	4.70	1.10	84.5	30.0	10.3	71.3	7.2	4.75	1723	19.06
971	STV 474	4.67	1.10	83.3	28.5	9.8	69.2	7.6	4.77	1543	18.84
1094	DPL NuCotn 33B	4.55	1.10	82.6	27.3	9.8	71.2	7.0	4.57	1484	18.86
893	STV LA 887	4.43	1.12	83.8	31.7	10.0	66.7	8.2	4.40	1398	19.21
578	PAYMASTER HS 26	4.50	1.07	83.0	30.5	10.0	66.8	6.6	4.52	1406	19.79
773	ACALA MAXXA	4.00	1.10	83.5	32.5	9.5	71.3	6.7	3.98	798	18.94
.	LSD	.	.	.	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A		D	M	p	w	t
				---	(mm2/mm3)---					
1095	DPL 5111	3.09	0.82	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.22	0.75	.	.	.	.	.	.	.

915	SUREGROW 501	3.10	0.86	.	.	.	.	.	.	.	.
953	SG 125	3.12	0.64	453	23.6	1.63	89	45.05	3.86	2.7	
1096	PAYMASTER PM 1220 RR	3.45	1.00	.	.	.	.	.	.	.	.
971	STV 474	3.21	1.01	.	.	.	.	.	.	.	.
1094	DPL NuCotn 33B	3.10	0.79	.	.	.	.	.	.	.	.
893	STV LA 887	3.04	0.73	461	21.8	1.56	91	42.44	3.55	2.8	
578	PAYMASTER HS 26	3.29	0.65	447	21.6	1.58	90	44.32	3.84	2.8	
773	ACALA MAXXA	3.58	0.57	491	21.3	1.58	90	40.33	3.18	2.6	
.	LSD	.	.	.	.	.	.	.	.	.	.

----- BOLL SIZE, GRAM PER BOLL -----		----- LINT PERCENT -----		----- SEED INDEX -----	
STV LA 887	5.24	SUREGROW 501	39.9	PAYMASTER PM 1220 RR	12.1
PAYMASTER PM 1220 RR	5.18	STV 474	39.5	PAYMASTER HS 26	11.9
SG 125	5.12	PAYMASTER PM 1560 BG	38.5	ACALA MAXXA	11.5
PAYMASTER PM 1560 BG	5.11	PAYMASTER PM 1220 RR	38.5	PAYMASTER PM 1560 BG	10.3
PAYMASTER HS 26	5.11	SG 125	38.3	STV LA 887	10.3
ACALA MAXXA	4.96	STV LA 887	38.3	DPL 5111	10.3
DPL 5111	4.93	DPL NuCotn 33B	37.1	STV 474	10.0
STV 474	4.82	DPL 5111	36.9	SG 125	9.8
SUREGROW 501	4.76	ACALA MAXXA	36.8	SUREGROW 501	9.4
DPL NuCotn 33B	4.68	PAYMASTER HS 26	35.8	DPL NuCotn 33B	9.0

----- 2.5% S.L. (INCHES) -----		----- UR (PERCENT) -----		----- STRENGTH (G/TEX) -----	
STV LA 887	1.12	PAYMASTER PM 1220 RR	84.5	ACALA MAXXA	32.5
SUREGROW 501	1.12	PAYMASTER PM 1560 BG	83.9	DPL 5111	32.2
PAYMASTER PM 1220 RR	1.10	SUREGROW 501	83.8	STV LA 887	31.7
ACALA MAXXA	1.10	STV LA 887	83.8	SUREGROW 501	31.5
PAYMASTER PM 1560 BG	1.10	SG 125	83.5	PAYMASTER HS 26	30.5
DPL 5111	1.10	ACALA MAXXA	83.5	PAYMASTER PM 1220 RR	30.0
STV 474	1.10	STV 474	83.3	PAYMASTER PM 1560 BG	28.7

SG 125	1.10	DPL 5111	83.1	STV 474	28.5
DPL NuCotn 33B	1.10	PAYMASTER HS 26	83.0	DPL NuCotn 33B	27.3
PAYMASTER HS 26	1.07	DPL NuCotn 33B	82.6	SG 125	27.2

E

MICRONAIRE (SL-HVI)

COLORIMETER - Rd

PAYMASTER PM 1220 RR	10.3	DPL 5111	4.92	PAYMASTER PM 1220 RR	71.3
SUREGROW 501	10.1	STV 474	4.77	ACALA MAXXA	71.3
STV LA 887	10.0	PAYMASTER PM 1220 RR	4.75	DPL NuCotn 33B	71.2
PAYMASTER HS 26	10.0	PAYMASTER PM 1560 BG	4.73	PAYMASTER PM 1560 BG	69.4
SG 125	9.9	SUREGROW 501	4.72	STV 474	69.2
DPL 5111	9.9	DPL NuCotn 33B	4.57	SUREGROW 501	68.8
PAYMASTER PM 1560 BG	9.8	PAYMASTER HS 26	4.52	SG 125	68.7
STV 474	9.8	SG 125	4.45	DPL 5111	67.7
DPL NuCotn 33B	9.8	STV LA 887	4.40	PAYMASTER HS 26	66.8
ACALA MAXXA	9.5	ACALA MAXXA	3.98	STV LA 887	66.7

COLORIMETER - b

MICRONAIRE

STELOMETER - E1

STV LA 887	8.2	DPL 5111	4.88	SG 125	8.4
DPL 5111	7.6	PAYMASTER PM 1220 RR	4.70	SUREGROW 501	8.2
STV 474	7.6	PAYMASTER PM 1560 BG	4.68	PAYMASTER HS 26	8.2
SG 125	7.5	STV 474	4.67	PAYMASTER PM 1560 BG	8.0
SUREGROW 501	7.3	SUREGROW 501	4.60	DPL NuCotn 33B	7.7
PAYMASTER PM 1220 RR	7.2	SG 125	4.58	STV 474	7.5
DPL NuCotn 33B	7.0	DPL NuCotn 33B	4.55	STV LA 887	7.4
ACALA MAXXA	6.7	PAYMASTER HS 26	4.50	PAYMASTER PM 1220 RR	7.2
PAYMASTER PM 1560 BG	6.7	STV LA 887	4.43	ACALA MAXXA	6.9
PAYMASTER HS 26	6.6	ACALA MAXXA	4.00	DPL 5111	6.5

----- STELOMETER - T1 -----		----- FIBROGRAPH--50% S.L. -----		----- FIBROGRAPH--2.5% S.L. -----	
ACALA MAXXA	233	ACALA MAXXA	0.59	ACALA MAXXA	1.16
STV LA 887	221	PAYMASTER PM 1220 RR	0.59	PAYMASTER PM 1220 RR	1.15
PAYMASTER HS 26	221	SUREGROW 501	0.58	STV LA 887	1.15
DPL 5111	219	PAYMASTER PM 1560 BG	0.58	SUREGROW 501	1.15
SUREGROW 501	217	STV 474	0.58	SG 125	1.14
DPL NuCotn 33B	202	DPL 5111	0.57	PAYMASTER PM 1560 BG	1.13
PAYMASTER PM 1560 BG	201	STV LA 887	0.57	STV 474	1.13
PAYMASTER PM 1220 RR	195	SG 125	0.57	DPL NuCotn 33B	1.12
SG 125	190	PAYMASTER HS 26	0.56	DPL 5111	1.11
STV 474	189	DPL NuCotn 33B	0.55	PAYMASTER HS 26	1.10

----- YARN TENACITY -----		----- AREALOMETER - A (mm2/mm3) -----		----- AREALOMETER - D (mm2/mm3) -----	
ACALA MAXXA	147	ACALA MAXXA	491	SG 125	23.6
SUREGROW 501	140	STV LA 887	461	STV LA 887	21.8
STV LA 887	135	SG 125	453	PAYMASTER HS 26	21.6
DPL 5111	133	PAYMASTER HS 26	447	ACALA MAXXA	21.3
PAYMASTER HS 26	126	SUREGROW 501	.	SUREGROW 501	.
PAYMASTER PM 1560 BG	125	DPL 5111	.	DPL 5111	.
PAYMASTER PM 1220 RR	123	PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.
STV 474	123	PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.
DPL NuCotn 33B	120	STV 474	.	STV 474	.
SG 125	119	DPL NuCotn 33B	.	DPL NuCotn 33B	.

----- AREALOMETER - I -----		----- AREALOMETER - M (PERCENT) -----		----- AREALOMETER - p (Microns) -----	
SG 125	1.63	STV LA 887	91	SG 125	45.05
PAYMASTER HS 26	1.58	ACALA MAXXA	90	PAYMASTER HS 26	44.32

ACALA MAXXA	1.58	PAYMASTER HS 26	90	STV LA 887	42.44
STV LA 887	1.56	SG 125	89	ACALA MAXXA	40.33
SUREGROW 501	.	SUREGROW 501	.	SUREGROW 501	.
DPL 5111	.	DPL 5111	.	DPL 5111	.
PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.
PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.
STV 474	.	STV 474	.	STV 474	.
DPL NuCotn 33B	.	DPL NuCotn 33B	.	DPL NuCotn 33B	.

AREALOMETER - w (MG/INCH)

AREALOMETER - t (MICRONS)

SEED YIELD (LB/ACRE)

SG 125	3.86	STV LA 887	2.8	DPL 5111	1815
PAYMASTER HS 26	3.84	PAYMASTER HS 26	2.8	PAYMASTER PM 1220 RR	1723
STV LA 887	3.55	SG 125	2.7	SG 125	1680
ACALA MAXXA	3.18	ACALA MAXXA	2.6	PAYMASTER PM 1560 BG	1659
SUREGROW 501	.	SUREGROW 501	.	SUREGROW 501	1609
DPL 5111	.	DPL 5111	.	STV 474	1543
PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.	DPL NuCotn 33B	1484
PAYMASTER PM 1220 RR	.	PAYMASTER PM 1220 RR	.	PAYMASTER HS 26	1406
STV 474	.	STV 474	.	STV LA 887	1398
DPL NuCotn 33B	.	DPL NuCotn 33B	.	ACALA MAXXA	798

OIL (PERCENT)

NITROGEN (PERCENT)

FREE GOSSYPOL (PERCENT)

PAYMASTER HS 26	19.79	ACALA MAXXA	3.58	STV 474	1.01
PAYMASTER PM 1560 BG	19.75	PAYMASTER PM 1220 RR	3.45	PAYMASTER PM 1220 RR	1.00
STV LA 887	19.21	PAYMASTER HS 26	3.29	SUREGROW 501	0.86
DPL 5111	19.15	PAYMASTER PM 1560 BG	3.22	DPL 5111	0.82
PAYMASTER PM 1220 RR	19.06	STV 474	3.21	DPL NuCotn 33B	0.79
ACALA MAXXA	18.94	SG 125	3.12	PAYMASTER PM 1560 BG	0.75
SUREGROW 501	18.90	SUREGROW 501	3.10	STV LA 887	0.73
DPL NuCotn 33B	18.86	DPL NuCotn 33B	3.10	PAYMASTER HS 26	0.65

STV 474	18.84	DPL 5111	3.09	SG 125	0.64
SG 125	18.31	STV LA 887	3.04	ACALA MAXXA	0.57

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)			(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
SAINT JOSEPH, LA	1071	4.45	38.3	9.8	131	1.12	0.56	213	7.8
STONEVILLE, MS	973	.	.	10.7	124	1.12	0.57	216	7.5
CLARKEDALE, AR	698	5.53	37.6	10.8	131	1.16	0.59	196	7.6

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

LOCATION	MICRONAIRE	2.5% S.L.	UNIFO- MITY	STRE- NGTH	E	COLORIMETER		SEED	OIL	
						HUNTER'S	MICRONAIRE			YIELD
	(Reading)	(in.)	(%)	(g/tex)		Rd	b	(Reading)	(lb/ac)	(%)
SAINT JOSEPH, LA	4.58	1.09	83.2	30.0	10.1	72.1	7.4	4.60	1777	20.37
STONEVILLE, MS	4.74	1.10	83.1	30.6	9.9	62.5	6.7	4.71	.	18.23
CLARKEDALE, AR	4.43	1.11	84.1	29.3	9.7	71.8	7.6	4.50	1247	18.57

AREALOMETER DATA

LOCATION	FREE NITROGEN	GOSSYPOL	A		D	M	p	w	t
			(%)	(%)					
	(%)	(%)	(mm2/mm3)	(mm2/mm3)		(%)	(microns)	(mg/in)	(microns)
						I			

LOCATION	YIELD	BOLL	LINT	SEED	TENACITY	94	DIGITAL	FIBROGRAPH	STELOMETER	E1
SAINT JOSEPH, LA	3.00	0.86	456	17.4	1.48	94	40.75	3.47	2.9	
STONEVILLE, MS	3.32	0.74	451	24.2	1.63	88	45.37	3.89	2.8	
CLARKEDALE, AR	3.31	0.76	472	25.3	1.66	87	44.25	3.63	2.6	

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 2.5% S.L. (inches)	FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
915	SUREGROW 501	1304	4.45	40.1	8.8	141	1.11	0.57	218	7.7
971	STV 474	1221	3.90	40.1	9.0	126	1.11	0.56	192	7.8
953	SG 125	1197	4.45	38.9	9.2	120	1.13	0.57	187	9.3
1097	PAYMASTER PM 1560 BG	1146	4.65	39.2	9.6	127	1.13	0.57	206	7.8
1094	DPL NuCotn 33B	1104	4.00	37.6	8.3	121	1.10	0.54	199	8.2
1096	PAYMASTER PM 1220 RR	1100	4.55	39.1	11.7	121	1.13	0.58	196	6.9
1095	DPL 5111	1067	4.25	36.6	9.4	134	1.09	0.57	221	6.8
893	STV LA 887	1017	5.05	38.3	10.0	136	1.13	0.56	219	7.9
578	PAYMASTER HS 26	959	4.55	36.7	10.6	131	1.06	0.55	233	8.7
773	ACALA MAXXA	598	4.60	37.1	12.0	152	1.17	0.58	257	6.8
.	LSD	154	0.50	.	.	8	0.01	0.02	.	1.3

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	SEED YIELD (lb/ac)	OIL (%)	COLORIMETER HUNTER'S Rd	b	MICRONAIRE (Reading)	
915	SUREGROW 501	4.60	1.10	83.0	31.5	10.5	73.0	7.7	4.70	1933	19.98
971	STV 474	4.65	1.10	82.4	29.0	10.0	72.5	7.8	4.55	1922	20.17

953	SG 125	4.55	1.10	83.3	26.5	10.0	73.0	7.5	4.50	1916	20.91
1097	PAYMASTER PM 1560 BG	4.55	1.10	84.0	29.0	10.0	72.5	6.7	4.65	1826	21.61
1094	DPL NuCotn 33B	4.70	1.10	82.3	26.0	9.7	72.0	6.7	4.55	1882	20.59
1096	PAYMASTER PM 1220 RR	4.80	1.10	84.6	29.5	11.0	72.5	7.5	4.90	1944	20.54
1095	DPL 5111	4.80	1.10	82.7	32.5	10.0	71.5	7.9	4.95	1826	19.70
893	STV LA 887	4.45	1.10	83.1	31.0	10.0	70.5	8.6	4.45	1749	20.41
578	PAYMASTER HS 26	4.60	1.00	83.4	31.0	10.0	72.0	7.0	4.65	1639	20.84
773	ACALA MAXXA	4.10	1.10	83.1	34.0	10.0	71.5	6.4	4.10	1129	18.95
.	LSD	0.30	.	.	.	.	3.4	0.9	.	514	0.99

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

VARIETY CODE	VARIETY NAME	FREE		A ---(mm2/mm3)---	D	M I	p (microns)	w (mg/in)	t (microns)	
		NITROGEN (%)	GOSSYPOL (%)							
915	SUREGROW 501	2.84	0.89	.	.	.	.	.	.
971	STV 474	2.94	1.14	.	.	.	.	.	.
953	SG 125	2.99	0.74	447	19.8	1.55	92	43.46	3.77	2.8
1097	PAYMASTER PM 1560 BG	2.96	1.03	.	.	.	.	.	.	.
1094	DPL NuCotn 33B	2.82	0.93	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	3.30	1.13	.	.	.	.	.	.	.
1095	DPL 5111	2.85	0.80	.	.	.	.	.	.	.
893	STV LA 887	2.68	0.75	455	11.3	1.31	101	36.21	3.08	3.2
578	PAYMASTER HS 26	3.13	0.62	436	19.0	1.53	92	43.81	3.90	2.9
773	ACALA MAXXA	3.51	0.60	488	19.5	1.54	92	39.53	3.14	2.6
.	LSD	0.19	0.47	.	.	0.68	.	.	.	.

STONEVILLE, MS

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1095	DPL 5111	1329	.	.	10.7	132	1.10	0.57	236	5.9
1097	PAYMASTER PM 1560 BG	1167	.	.	10.7	125	1.11	0.57	215	8.3

1094	DPL NuCotn 33B	1118	.	.	9.7	115	1.12	0.55	213	7.0
1096	PAYMASTER PM 1220 RR	1010	.	.	11.2	126	1.13	0.58	208	7.7
953	SG 125	1009	.	.	9.9	116	1.13	0.55	197	7.7
971	STV 474	979	.	.	9.9	116	1.13	0.58	189	7.5
915	SUREGROW 501	962	.	.	10.0	136	1.16	0.59	219	9.1
893	STV LA 887	955	.	.	10.8	127	1.15	0.57	230	6.8
578	PAYMASTER HS 26	878	.	.	12.9	121	1.08	0.54	235	7.7
773	ACALA MAXXA	325	.	.	11.2	.	.	.	.	.
.	LSD	388	.	.	.	10	0.03	0.03	.	0.9

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	SEMI-E	COLORIMETER HUNTER'S (Rd, b)		SEED MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
1095	DPL 5111	5.10	1.10	82.9	33.0	10.0	62.5	7.0	5.00	.	19.54
1097	PAYMASTER PM 1560 BG	5.03	1.10	83.2	29.7	9.9	64.3	6.1	5.03	.	18.33
1094	DPL NuCotn 33B	4.55	1.10	82.1	28.0	9.8	67.0	6.9	4.60	.	17.47
1096	PAYMASTER PM 1220 RR	4.75	1.10	84.2	30.5	10.0	67.0	6.6	4.70	.	17.70
953	SG 125	4.75	1.10	83.1	28.5	9.9	61.5	7.2	4.45	.	16.49
971	STV 474	4.80	1.10	83.3	28.5	9.7	63.5	7.1	5.05	.	18.43
915	SUREGROW 501	4.80	1.10	83.6	33.0	10.0	62.5	6.8	4.80	.	18.19
893	STV LA 887	4.55	1.10	83.8	32.5	10.0	57.5	7.3	4.45	.	19.18
578	PAYMASTER HS 26	4.35	1.10	82.1	31.5	10.0	57.0	5.8	4.35	.	18.74
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.	.
.	LSD	0.41	.	.	.	.	10.4	1.2	.	.	1.95

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D	M (%)	p (microns)	w (mg/in)	t (microns)
1095	DPL 5111	3.17	0.86	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.26	0.59	.	.	.	.	.	.
1094	DPL NuCotn 33B	3.20	0.71	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	3.68	0.84	.	.	.	.	.	.

953	SG 125	3.24	0.54	435	23.0	1.61	89	46.35	4.13	2.9
971	STV 474	3.42	0.94	.	.	.	.	.	.	.
915	SUREGROW 501	3.31	0.85	.	.	.	.	.	.	.
893	STV LA 887	3.13	0.74	458	22.0	1.58	90	43.05	3.63	2.8
578	PAYMASTER HS 26	3.49	0.64	460	27.5	1.71	85	46.71	3.93	2.7
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.
.	LSD	0.64	0.22	.	.	1.00	.	.	.	.

CLARKEDALE, AR

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)	E1 (%)
1095	DPL 5111	979	5.61	37.3	10.8	133	1.13	0.59	201	6.9
1097	PAYMASTER PM 1560 BG	869	5.57	37.9	10.7	123	1.15	0.59	182	7.9
953	SG 125	848	5.79	37.7	10.3	122	1.16	0.59	186	8.3
915	SUREGROW 501	830	5.06	39.7	9.3	144	1.17	0.60	214	7.9
1096	PAYMASTER PM 1220 RR	822	5.80	38.0	13.5	124	1.19	0.60	183	7.2
971	STV 474	718	5.73	38.9	11.1	129	1.14	0.59	185	7.1
893	STV LA 887	629	5.42	38.2	10.1	142	1.17	0.58	215	7.6
1094	DPL NuCotn 33B	558	5.35	36.6	9.2	125	1.15	0.57	194	7.9
578	PAYMASTER HS 26	530	5.66	34.9	12.3	126	1.15	0.58	194	8.3
773	ACALA MAXXA	194	5.31	36.6	11.3	143	1.16	0.59	209	6.9
.	LSD	116	0.99	.	.	11	0.02	0.02	.	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)	SEED INDEX E	COLORIMETER HUNTER'S Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1095	DPL 5111	4.75	1.10	83.8	31.0	9.6	69.0	8.0	4.80	1805	18.22
1097	PAYMASTER PM 1560 BG	4.45	1.10	84.6	27.5	9.6	71.5	7.2	4.50	1492	19.31
953	SG 125	4.45	1.10	84.1	26.5	9.9	71.5	7.8	4.40	1445	17.54
915	SUREGROW 501	4.40	1.15	84.9	30.0	9.8	71.0	7.6	4.65	1286	18.53

1096	PAYMASTER PM 1220 RR	4.55	1.10	84.7	30.0	10.0	74.5	7.6	4.65	1502	18.94
971	STV 474	4.55	1.10	84.3	28.0	9.6	71.5	7.9	4.70	1164	17.93
893	STV LA 887	4.30	1.15	84.5	31.5	10.0	72.0	8.7	4.30	1047	18.05
1094	DPL NuCotn 33B	4.40	1.10	83.3	28.0	9.8	74.5	7.3	4.55	1087	18.52
578	PAYMASTER HS 26	4.55	1.10	83.5	29.0	9.9	71.5	7.1	4.55	1174	19.79
773	ACALA MAXXA	3.90	1.10	83.8	31.0	9.0	71.0	7.0	3.85	467	18.93
.	LSD	0.28	.	.	.	.	3.3	0.9	.	368	1.04

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1095	DPL 5111	3.25	0.82	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.45	0.63	.	.	.	.	.	.	.
953	SG 125	3.12	0.64	476	28.0	1.72	85	45.34	3.68	2.6
915	SUREGROW 501	3.17	0.83	.	.	.	.	.	.	.
1096	PAYMASTER PM 1220 RR	3.37	1.03	.	.	.	.	.	.	.
971	STV 474	3.27	0.96	.	.	.	.	.	.	.
893	STV LA 887	3.31	0.71	471	32.0	1.80	82	48.08	3.95	2.6
1094	DPL NuCotn 33B	3.30	0.75	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.27	0.69	446	18.3	1.51	93	42.45	3.69	2.9
773	ACALA MAXXA	3.64	0.54	494	23.0	1.62	89	41.13	3.22	2.5
.	LSD	0.26	0.07	.	.	0.18

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 Questions or comments to: ekeene@ag.gov

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 BOLL SIZE, GRAM PER BOLL

ACALA MAXXA	5.69
PAYMASTER HS 26	5.66
STV LA 887	5.65
H 1560 (HARTZ)	5.53
SG 125	5.26
STV 474	4.86
DELTAPINE 50	4.81
DP 5409	4.41

 LINT PERCENT

STV 474	41.6
ACALA MAXXA	41.2
SG 125	40.6
H 1560 (HARTZ)	40.2
STV LA 887	39.9
DP 5409	39.8
PAYMASTER HS 26	37.8
DELTAPINE 50	35.6

 SEED INDEX

ACALA MAXXA	10.2
PAYMASTER HS 26	9.8
STV LA 887	9.6
H 1560 (HARTZ)	9.4
DELTAPINE 50	9.0
SG 125	8.8
STV 474	8.7
DP 5409	8.2

 2.5% S.L. (INCHES)

ACALA MAXXA	1.08
STV LA 887	1.06
DELTAPINE 50	1.05
SG 125	1.05
H 1560 (HARTZ)	1.03
DP 5409	1.03
PAYMASTER HS 26	1.00
STV 474	1.00

 UR (PERCENT)

SG 125	83.6
ACALA MAXXA	83.5
STV LA 887	83.3
STV 474	82.8
H 1560 (HARTZ)	82.7
DELTAPINE 50	82.4
PAYMASTER HS 26	82.2
DP 5409	82.0

 STRENGTH (G/TEX)

ACALA MAXXA	31.4
STV LA 887	28.5
PAYMASTER HS 26	28.4
SG 125	27.3
H 1560 (HARTZ)	27.3
STV 474	26.6
DP 5409	26.4
DELTAPINE 50	24.0

 E

STV LA 887	10.0
SG 125	10.0
H 1560 (HARTZ)	9.8
PAYMASTER HS 26	9.8
STV 474	9.5
ACALA MAXXA	9.5
DP 5409	9.3

 MICRONAIRE (SL-HVI)

H 1560 (HARTZ)	4.98
STV 474	4.96
STV LA 887	4.85
SG 125	4.83
DP 5409	4.78
DELTAPINE 50	4.71
PAYMASTER HS 26	4.63

 COLORIMETER - Rd

DELTAPINE 50	67.9
DP 5409	67.8
H 1560 (HARTZ)	66.4
STV LA 887	66.3
SG 125	65.5
PAYMASTER HS 26	65.1
STV 474	64.8

DELTAPINE 50	9.3	ACALA MAXXA	4.14	ACALA MAXXA	64.8
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 COLORIMETER - b

STV LA 887	8.6
STV 474	8.3
H 1560 (HARTZ)	8.0
DP 5409	7.8
SG 125	7.7
ACALA MAXXA	7.7
PAYMASTER HS 26	7.6
DELTAPINE 50	7.3

 MICRONAIRE

H 1560 (HARTZ)	4.84
STV 474	4.83
SG 125	4.78
STV LA 887	4.73
DP 5409	4.65
PAYMASTER HS 26	4.61
DELTAPINE 50	4.59
ACALA MAXXA	4.09

 STELOMETER - E1

SG 125	7.7
DELTAPINE 50	7.4
PAYMASTER HS 26	7.4
STV LA 887	7.3
H 1560 (HARTZ)	7.2
ACALA MAXXA	6.8
DP 5409	6.8
STV 474	6.5

 STELOMETER - T1

ACALA MAXXA	234
STV LA 887	208
PAYMASTER HS 26	207
H 1560 (HARTZ)	202
SG 125	201
DP 5409	191
STV 474	189
DELTAPINE 50	185

 FIBROGRAPH--50% S.L.

ACALA MAXXA	0.56
STV LA 887	0.56
SG 125	0.56
STV 474	0.54
H 1560 (HARTZ)	0.54
DELTAPINE 50	0.54
PAYMASTER HS 26	0.53
DP 5409	0.52

 FIBROGRAPH--2.5% S.L.

ACALA MAXXA	1.11
STV LA 887	1.10
SG 125	1.10
DELTAPINE 50	1.08
DP 5409	1.07
H 1560 (HARTZ)	1.07
PAYMASTER HS 26	1.04
STV 474	1.03

 YARN TENACITY

ACALA MAXXA	143
STV LA 887	125
PAYMASTER HS 26	119
SG 125	118

 AREALOMETER - A (mm²/mm³)

ACALA MAXXA	484
PAYMASTER HS 26	432
SG 125	425
STV LA 887	417

 AREALOMETER - D (mm²/mm³)

ACALA MAXXA	23.9
PAYMASTER HS 26	21.3
SG 125	19.4
STV LA 887	13.0

H 1560 (HARTZ)	117
STV 474	114
DELTAPINE 50	111
DP 5409	107

H 1560 (HARTZ)	.
STV 474	.
DELTAPINE 50	.
DP 5409	.

H 1560 (HARTZ)	.
STV 474	.
DELTAPINE 50	.
DP 5409	.

AREALOMETER - I

ACALA MAXXA	1.63
PAYMASTER HS 26	1.58
SG 125	1.53
STV LA 887	1.38
H 1560 (HARTZ)	.
STV 474	.
DELTAPINE 50	.
DP 5409	.

AREALOMETER - M (PERCENT)

STV LA 887	98
SG 125	92
PAYMASTER HS 26	90
ACALA MAXXA	88
H 1560 (HARTZ)	.
STV 474	.
DELTAPINE 50	.
DP 5409	.

AREALOMETER - p (Microns)

PAYMASTER HS 26	45.86
SG 125	45.54
ACALA MAXXA	42.24
STV LA 887	41.39
H 1560 (HARTZ)	.
STV 474	.
DELTAPINE 50	.
DP 5409	.

AREALOMETER - w (MG/INCH)

SG 125	4.18
PAYMASTER HS 26	4.10
STV LA 887	3.84
ACALA MAXXA	3.38
H 1560 (HARTZ)	.
STV 474	.
DELTAPINE 50	.
DP 5409	.

AREALOMETER - t (MICRONS)

STV LA 887	3.2
SG 125	3.0
PAYMASTER HS 26	2.9
ACALA MAXXA	2.6
H 1560 (HARTZ)	.
STV 474	.
DELTAPINE 50	.
DP 5409	.

SEED YIELD (LB/ACRE)

DELTAPINE 50	1385
H 1560 (HARTZ)	1358
STV 474	1339
STV LA 887	1284
PAYMASTER HS 26	1255
SG 125	1234
DP 5409	1210
ACALA MAXXA	798

OIL (PERCENT)

NITROGEN (PERCENT)

FREE GOSSYPOL (PERCENT)

H 1560 (HARTZ)	19.30	ACALA MAXXA	3.85	STV 474	0.59
PAYMASTER HS 26	19.21	SG 125	3.50	H 1560 (HARTZ)	0.57
STV LA 887	19.18	STV 474	3.47	DELTAPINE 50	0.57
DELTAPINE 50	18.34	H 1560 (HARTZ)	3.45	ACALA MAXXA	0.55
ACALA MAXXA	18.20	PAYMASTER HS 26	3.40	STV LA 887	0.54
SG 125	17.76	STV LA 887	3.40	PAYMASTER HS 26	0.51
DP 5409	17.43	DP 5409	3.38	DP 5409	0.47
STV 474	17.35	DELTAPINE 50	3.32	SG 125	0.46

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
WESLACO, TX	1384	6.26	40.0	9.6	127	1.12	0.57	207	7.1
COLLEGE STATION, TX	869	5.51	40.0	9.8	124	1.14	0.56	213	7.2
BEEVILLE, TX	576	5.37	39.9	8.5	112	1.00	0.51	195	7.8
BOSSIER CITY, LA	490	3.80	38.5	9.0	113	1.05	0.53	194	6.4

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

LOCATION	MICRONAIRE	2.5% S.L.	UNIFO-	STRE-	E	COLORIMETER		SEED	OIL	
						HUNTER'S	MICRONAIRE			
	(Reading)	(in.)	MITY	NGTH		Rd	b	(Reading)	(lb/ac)	(%)
WESLACO, TX	4.43	1.07	83.8	28.8	9.6	70.2	8.3	4.52	1987	20.19
COLLEGE STATION, TX	4.81	1.11	84.0	27.6	9.7	61.2	7.0	4.92	1436	17.85
BEEVILLE, TX	4.56	0.94	81.6	27.1	9.9	72.4	8.7	4.65	804	18.81
BOSSIER CITY, LA	4.76	1.03	81.9	26.4	9.3	60.4	7.6	4.84	705	16.54

LOCATION	-----AREALOMETER DATA-----								
	NITROGEN (%)	FREE GOSSYPOL (%)	A ---(mm ² /mm ³)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
WESLACO, TX	3.38	0.73	454	22.3	1.59	90	44.19	3.80	2.8
COLLEGE STATION, TX	3.47	0.45	423	15.9	1.45	95	42.94	3.95	3.1
BEEVILLE, TX	3.46	0.67	441	23.1	1.62	89	46.23	4.09	2.8
BOSSIER CITY, LA	3.58	0.29	440	16.4	1.46	95	41.68	3.67	3.0

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)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
971	STV 474	1133	5.20	43.1	9.2	118	1.13	0.56	198	6.7
953	SG 125	980	5.60	40.8	9.1	116	1.16	0.58	194	8.1
1015	H 1560 (HARTZ)	926	6.30	40.5	10.4	124	1.16	0.57	220	7.6
893	STV LA 887	908	6.15	40.1	10.6	138	1.17	0.60	232	7.4
689	DELTAPINE 50	887	5.20	34.9	9.8	115	1.13	0.55	196	7.4
919	DP 5409	816	4.25	41.3	8.2	106	1.13	0.54	192	7.0
578	PAYMASTER HS 26	722	5.70	36.3	10.2	127	1.09	0.54	226	7.2
773	ACALA MAXXA	582	5.70	42.9	10.7	153	1.17	0.59	248	6.7
.	LSD	269	1.05	.	.	10	0.02	0.03	.	1.0

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5%	UNIFO-	STRE-	COLORIMETER			SEED	OIL (%)	
			S.L. (in.)	MITY (%)	NGTH (g/tex)	E	HUNTER'S Rd	b	MICRONAIRE (Reading)		YIELD (lb/ac)
971	STV 474	5.20	1.10	83.7	26.5	9.7	60.5	7.3	5.30	1757	16.36
953	SG 125	4.90	1.10	84.0	24.5	9.9	60.0	7.0	5.05	1339	17.30
1015	H 1560 (HARTZ)	4.95	1.10	84.3	28.0	10.0	61.5	7.2	5.25	1641	19.81
893	STV LA 887	4.95	1.20	84.9	29.5	10.0	62.5	7.4	5.00	1500	19.18
689	DELTAPINE 50	4.95	1.10	83.2	25.0	9.4	63.0	6.2	5.15	1821	19.00
919	DP 5409	4.95	1.10	83.2	26.0	9.4	64.0	6.9	5.10	1361	15.91
578	PAYMASTER HS 26	4.50	1.10	83.6	29.5	10.0	60.0	6.9	4.55	1398	18.31
773	ACALA MAXXA	4.10	1.10	84.8	32.0	9.5	58.0	6.9	3.95	674	16.91
.	LSD	0.32	.	.	.	.	4.2	0.6	.	736	1.57

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A		D		M		p		w		t	
				---(mm2/mm3)---		I	(%)	(microns)		(mg/in)		(microns)			
971	STV 474	3.45	0.51	.	.	.	.	.	.	.	.	.	.	.	.
953	SG 125	3.43	0.32	394	19.5	1.54	92	49.24	4.85	3.2					
1015	H 1560 (HARTZ)	3.51	0.68	.	.	.	.	.	.	.	.	.	.	.	.
893	STV LA 887	3.30	0.52	398	6.0	1.19	105	37.47	3.64	3.7					
689	DELTAPINE 50	3.28	0.49	.	.	.	.	.	.	.	.	.	.	.	.
919	DP 5409	3.16	0.29	.	.	.	.	.	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.47	0.37	425	16.3	1.47	95	43.22	3.93	3.0					
773	ACALA MAXXA	4.19	0.45	477	21.8	1.59	90	41.83	3.39	2.6					
.	LSD	0.36	0.28	.	.	0.27	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS

WESLACO, TX

LINT BOLL YARN DIGITAL FIBROGRAPH STELOMETER

VARIETY CODE	VARIETY NAME	YIELD (lb/acre)	SIZE (g/boll)	LINT PERCENT	SEED INDEX	TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
953	SG 125	1569	6.15	40.6	9.1	122	1.14	0.59	189	7.4
971	STV 474	1497	5.65	41.3	9.2	122	1.10	0.57	200	6.8
893	STV LA 887	1421	6.65	40.9	10.2	137	1.15	0.57	208	6.9
1015	H 1560 (HARTZ)	1395	6.10	41.3	9.3	124	1.10	0.56	205	6.5
689	DELTAPINE 50	1371	5.30	36.3	9.0	120	1.13	0.57	190	7.4
578	PAYMASTER HS 26	1371	7.40	38.4	10.4	124	1.07	0.57	212	7.7
919	DP 5409	1363	5.45	39.4	8.9	113	1.11	0.55	202	7.0
773	ACALA MAXXA	1089	7.35	42.0	11.1	154	1.14	0.59	247	6.9
.	LSD	180	0.73	.	.	9	0.04	0.04	.	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)	E	COLORIMETER HUNTER'S		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							Rd	b			
953	SG 125	4.55	1.10	84.9	26.5	9.8	70.0	7.7	4.65	2208	19.61
971	STV 474	4.55	1.00	83.7	29.5	9.9	69.5	8.3	4.65	2089	19.89
893	STV LA 887	4.45	1.10	84.0	29.5	9.9	69.5	9.2	4.60	1985	20.53
1015	H 1560 (HARTZ)	4.95	1.05	83.9	28.5	9.9	70.5	8.2	5.05	1968	20.56
689	DELTAPINE 50	4.25	1.10	83.6	24.5	9.1	73.0	7.7	4.35	2110	20.01
578	PAYMASTER HS 26	4.65	1.00	82.6	29.5	10.0	69.5	7.9	4.60	2052	22.17
919	DP 5409	4.45	1.10	83.8	28.0	9.3	71.5	8.8	4.60	2034	19.60
773	ACALA MAXXA	3.55	1.10	84.0	34.0	9.0	68.0	8.7	3.65	1448	19.13
.	LSD	0.47	.	.	.	.	4.1	1.3	.	334	2.24

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A ---(mm2/mm3)---	D	M I (%)	p (microns)	w (mg/in)	t (microns)	
953	SG 125	3.22	0.64	439	22.3	1.60	90	45.85	4.05	2.9
971	STV 474	3.55	0.95	.	.	.	.	.	.	.
893	STV LA 887	3.40	0.75	428	12.3	1.36	99	40.00	3.62	3.1

1015	H 1560 (HARTZ)	3.32	0.62	.	.	.	.	.	.	.
689	DELTAPINE 50	3.33	0.76	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.19	0.84	430	25.5	1.67	87	48.77	4.38	2.9
919	DP 5409	3.29	0.70	.	.	.	.	.	.	.
773	ACALA MAXXA	3.71	0.56	519	29.3	1.74	84	42.14	3.15	2.4
.	LSD	0.55	0.21	.	.	0.43	.	.	.	.

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)	DIGITAL FIBROGRAPH 50% S.L. (inches)	STELOMETER T1 (mN/tex)	STELOMETER E1 (%)
1015	H 1560 (HARTZ)	671	4.20	39.0	9.5	112	1.06	0.54	195	7.0
971	STV 474	563	3.35	39.9	8.1	106	0.91	0.53	180	5.3
893	STV LA 887	562	4.35	37.6	9.2	117	1.10	0.55	198	6.6
953	SG 125	519	3.65	40.4	8.2	129	1.09	0.56	221	6.7
919	DP 5409	472	3.00	40.2	7.6	100	1.07	0.51	179	5.7
578	PAYMASTER HS 26	439	4.00	37.2	9.9	110	1.02	0.53	193	7.2
689	DELTAPINE 50	434	3.60	34.2	9.0	96	1.06	0.52	168	6.5
773	ACALA MAXXA	262	4.25	39.9	10.4	136	1.10	0.55	221	6.4
.	LSD	81	0.45	.	.	31	0.14	0.02	.	1.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	SEED YIELD (lb/ac)	OIL (%)	COLORIMETER HUNTER'S Rd	COLORIMETER HUNTER'S b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1015	H 1560 (HARTZ)	4.85	1.05	82.4	27.5	9.9	61.5	7.7	4.95	957	17.55	
971	STV 474	4.90	1.00	81.1	24.0	8.8	59.0	8.5	5.10	712	15.82	
893	STV LA 887	4.90	1.00	82.3	27.5	10.0	61.0	8.0	5.00	872	17.06	
953	SG 125	4.75	1.05	83.4	28.5	9.6	59.5	7.0	4.70	675	16.26	

919	DP 5409	4.80	1.00	81.0	24.5	8.8	61.5	7.0	4.85	646	14.99
578	PAYMASTER HS 26	4.60	1.00	81.3	26.5	9.3	59.0	7.6	4.65	665	17.26
689	DELTAPINE 50	4.85	1.00	80.5	22.0	8.8	61.5	7.5	4.95	760	16.44
773	ACALA MAXXA	4.40	1.10	83.7	31.0	9.5	60.5	7.4	4.55	351	16.97
.	LSD	0.53	.	.	.	.	4.4	0.7	.	242	1.83

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	FREE GOSSYPOL (%)	A		D		M (%)	p (microns)	w (mg/in)	t (microns)
				---(mm2/mm3)---		I					
1015	H 1560 (HARTZ)	3.45	0.33	.	.	.	.	.	.	.	.
971	STV 474	3.60	0.23	.	.	.	.	.	.	.	.
893	STV LA 887	3.48	0.18	422	12.3	1.37	98	40.66	3.73	3.2	
953	SG 125	3.74	0.21	442	13.0	1.38	98	39.46	3.48	3.0	
919	DP 5409	3.50	0.19	.	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.52	0.22	439	23.0	1.62	89	46.28	4.08	2.9	
689	DELTAPINE 50	3.46	0.32	.	.	.	.	.	.	.	.
773	ACALA MAXXA	3.87	0.64	459	17.3	1.48	94	40.33	3.40	2.9	
.	LSD	0.27	0.59	.	.	0.34	.	.	.	.	.

VARIETIES BY LOCATIONS

BEEVILLE, TX

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
971	STV 474	718	5.25	42.0	8.2	110	1.00	0.53	180	7.2
953	SG 125	610	5.65	40.8	8.9	106	1.01	0.51	200	8.5
578	PAYMASTER HS 26	584	5.55	39.2	8.7	115	0.98	0.50	199	7.5
1015	H 1560 (HARTZ)	558	5.50	40.0	8.4	108	0.99	0.50	190	7.6

919	DP 5409	555	4.95	38.5	8.1	111	0.99	0.50	190	7.4
893	STV LA 887	536	5.45	41.1	8.6	109	1.01	0.52	193	8.4
689	DELTAPINE 50	526	5.15	37.1	8.3	112	1.02	0.51	187	8.4
773	ACALA MAXXA	522	5.45	40.2	8.8	128	1.02	0.52	219	7.4
.	LSD	236	1.44	.	.	24	0.04	0.03	.	1.8

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)	E	COLORIMETER		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							HUNTER'S Rd	b			
971	STV 474	4.65	0.90	82.7	26.5	9.8	70.0	9.2	4.80	799	17.35
953	SG 125	4.90	0.95	82.3	29.5	10.5	72.5	9.3	4.90	715	17.88
578	PAYMASTER HS 26	4.70	0.90	81.2	28.0	9.9	72.0	7.9	4.70	904	19.12
1015	H 1560 (HARTZ)	4.60	0.90	80.5	25.0	9.6	72.0	9.0	4.65	866	19.30
919	DP 5409	4.40	0.90	80.0	27.0	9.6	74.0	8.7	4.55	798	19.21
893	STV LA 887	4.60	0.95	82.2	27.5	10.0	72.0	9.7	4.80	777	19.94
689	DELTAPINE 50	4.30	1.00	82.5	24.5	9.8	74.0	7.9	4.40	849	17.92
773	ACALA MAXXA	4.30	1.00	81.7	28.5	10.0	72.5	8.0	4.40	721	19.78
.	LSD	0.76	.	.	.	.	3.8	1.0	.	221	2.64

AREALOMETER DATA

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	FREE GOSSYPOL (%)	A		D	M	p	w	t
				---	---					
				---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
971	STV 474	3.29	0.67	.	.	.	.	.	.	.
953	SG 125	3.60	0.69	425	22.8	1.61	89	47.63	4.34	2.9
578	PAYMASTER HS 26	3.44	0.64	436	20.5	1.56	91	45.18	4.03	2.9
1015	H 1560 (HARTZ)	3.53	0.66	.	.	.	.	.	.	.
919	DP 5409	3.57	0.72	.	.	.	.	.	.	.
893	STV LA 887	3.41	0.71	420	21.5	1.59	91	47.44	4.38	3.0
689	DELTAPINE 50	3.23	0.71
773	ACALA MAXXA	3.62	0.57	483	27.5	1.71	85	44.66	3.61	2.6
.	LSD	0.39	0.26	.	.	0.19

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 Questions or comments to: ekeene@ag.gov

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National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data

1998 BLACKLANDS REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

BLACKLANDS REGION

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
953	SG 125	388	5.25	40.0	8.6	107	1.04	0.53	177	7.0
689	DELTAPINE 50	379	5.30	36.7	9.0	115	1.09	0.54	185	6.7
893	STV LA 887	368	5.85	41.0	9.8	133	1.09	0.53	208	7.0
578	PAYMASTER HS 26	353	5.60	38.0	9.6	126	1.00	0.51	194	7.3
1018	TAMCOT SPHINX	274	5.40	38.3	9.2	119	1.03	0.53	201	6.4
773	ACALA MAXXA	260	5.90	42.7	10.5	160	1.10	0.57	245	6.7

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
ACALA MAXXA	5.90	ACALA MAXXA	42.7	ACALA MAXXA	10.5
STV LA 887	5.80	SG 125	40.0	STV LA 887	9.7
PAYMASTER HS 26	5.60	STV LA 887	39.8	PAYMASTER HS 26	9.6
TAMCOT SPHINX	5.40	TAMCOT SPHINX	38.3	TAMCOT SPHINX	9.2
DELTAPINE 50	5.30	PAYMASTER HS 26	38.0	DELTAPINE 50	9.0
SG 125	5.25	DELTAPINE 50	36.6	SG 125	8.6
2.5% S.L. (INCHES)		UR (PERCENT)		STRENGTH (G/TEX)	
ACALA MAXXA	1.10	ACALA MAXXA	83.5	ACALA MAXXA	33.3
STV LA 887	1.05	DELTAPINE 50	83.4	STV LA 887	29.3
DELTAPINE 50	1.05	SG 125	82.6	PAYMASTER HS 26	29.0
TAMCOT SPHINX	1.00	STV LA 887	82.6	TAMCOT SPHINX	28.0
SG 125	1.00	TAMCOT SPHINX	82.4	DELTAPINE 50	24.5
PAYMASTER HS 26	0.95	PAYMASTER HS 26	81.7	SG 125	24.0
E		MICRONAIRE (SL-HVI)		COLORIMETER - Rd	
STV LA 887	9.5	STV LA 887	4.85	DELTAPINE 50	67.3
PAYMASTER HS 26	9.5	SG 125	4.85	SG 125	66.8
ACALA MAXXA	9.3	DELTAPINE 50	4.85	TAMCOT SPHINX	66.5
SG 125	9.0	PAYMASTER HS 26	4.83	PAYMASTER HS 26	65.3
TAMCOT SPHINX	9.0	TAMCOT SPHINX	4.73	ACALA MAXXA	62.3
DELTAPINE 50	9.0	ACALA MAXXA	4.33	STV LA 887	60.5

 COLORIMETER - b

SG 125	9.0
STV LA 887	8.9
DELTAPINE 50	8.0
TAMCOT SPHINX	8.0
ACALA MAXXA	7.9
PAYMASTER HS 26	7.8

 STELOMETER - T1

ACALA MAXXA	245
STV LA 887	211
TAMCOT SPHINX	201
PAYMASTER HS 26	194
DELTAPINE 50	189
SG 125	177

 YARN TENACITY

ACALA MAXXA	160
STV LA 887	139
PAYMASTER HS 26	126
TAMCOT SPHINX	119
DELTAPINE 50	117
SG 125	107

 MICRONAIRE

SG 125	4.68
DELTAPINE 50	4.68
PAYMASTER HS 26	4.68
STV LA 887	4.65
TAMCOT SPHINX	4.63
ACALA MAXXA	4.20

 FIBROGRAPH--50% S.L.

ACALA MAXXA	0.57
DELTAPINE 50	0.54
STV LA 887	0.54
SG 125	0.53
TAMCOT SPHINX	0.53
PAYMASTER HS 26	0.51

 AREALOMETER - A (mm²/mm³)

ACALA MAXXA	501
PAYMASTER HS 26	444
STV LA 887	428
SG 125	421
TAMCOT SPHINX	.
DELTAPINE 50	.

 STELOMETER - E1

PAYMASTER HS 26	7.3
STV LA 887	7.1
SG 125	7.0
DELTAPINE 50	6.8
ACALA MAXXA	6.7
TAMCOT SPHINX	6.4

 FIBROGRAPH--2.5% S.L.

ACALA MAXXA	1.10
DELTAPINE 50	1.10
STV LA 887	1.10
SG 125	1.04
TAMCOT SPHINX	1.03
PAYMASTER HS 26	1.00

 AREALOMETER - D (mm²/mm³)

ACALA MAXXA	26.0
PAYMASTER HS 26	24.5
STV LA 887	19.8
SG 125	16.1
TAMCOT SPHINX	.
DELTAPINE 50	.

AREALOMETER - I	
ACALA MAXXA	1.68
PAYMASTER HS 26	1.65
STV LA 887	1.55
SG 125	1.46
TAMCOT SPHINX	.
DELTAPINE 50	.

AREALOMETER - M (PERCENT)	
SG 125	94
STV LA 887	92
PAYMASTER HS 26	88
ACALA MAXXA	87
TAMCOT SPHINX	.
DELTAPINE 50	.

AREALOMETER - p (Microns)	
PAYMASTER HS 26	46.70
STV LA 887	45.19
SG 125	43.55
ACALA MAXXA	42.09
TAMCOT SPHINX	.
DELTAPINE 50	.

AREALOMETER - w (MG/INCH)	
STV LA 887	4.08
PAYMASTER HS 26	4.08
SG 125	4.01
ACALA MAXXA	3.26
TAMCOT SPHINX	.
DELTAPINE 50	.

AREALOMETER - t (MICRONS)	
SG 125	3.1
STV LA 887	3.0
PAYMASTER HS 26	2.8
ACALA MAXXA	2.5
TAMCOT SPHINX	.
DELTAPINE 50	.

SEED YIELD (LB/ACRE)	
DELTAPINE 50	752
PAYMASTER HS 26	704
STV LA 887	672
SG 125	611
TAMCOT SPHINX	532
ACALA MAXXA	508

OIL (PERCENT)	
STV LA 887	18.57
DELTAPINE 50	18.29
PAYMASTER HS 26	17.77
TAMCOT SPHINX	17.50
ACALA MAXXA	17.26
SG 125	16.70

NITROGEN (PERCENT)	
ACALA MAXXA	3.84
PAYMASTER HS 26	3.72
TAMCOT SPHINX	3.63
SG 125	3.58
STV LA 887	3.50
DELTAPINE 50	3.34

FREE GOSSYPOL (PERCENT)	
DELTAPINE 50	0.47
STV LA 887	0.43
TAMCOT SPHINX	0.41
PAYMASTER HS 26	0.36
ACALA MAXXA	0.35
SG 125	0.34

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)			(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
THRALL, TX	388	5.55	39.4	9.6	135	1.06	0.55	212	7.0
DALLAS, TX	286	.	.	9.3	118	1.05	0.52	191	6.7

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

LOCATION	MICRONAIRE (Reading)	2.5%	UNIFO-	STRE-	E	COLORIMETER		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
		S.L.	MITY	NGTH		HUNTER'S	b			
	(in.)	(%)	(%)	(g/tex)		Rd				
THRALL, TX	4.61	1.03	83.5	29.5	9.4	69.5	9.0	4.68	630	18.42
DALLAS, TX	4.58	1.00	81.9	26.3	8.9	60.4	7.5	4.81	.	17.06

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

LOCATION	FREE NITROGEN (%)	GOSSYPOL (%)	A	D	M	p	w	t	
			---(mm ² /mm ³)---						I	(microns)	(mg/in)	(microns)
THRALL, TX	3.59	0.43	447	20.0	1.55	91	43.52	3.78	2.8
DALLAS, TX	3.62	0.36	448	22.0	1.59	90	44.60	3.88	2.8

VARIETIES BY LOCATIONS

DALLAS, TX

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)			TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
953	SG 125	371	.	.	8.5	96	1.02	0.51	175	7.0
689	DELTAPINE 50	355	.	.	8.8	105	1.09	0.52	178	6.3
893	STV LA 887	331	.	.	9.8	123	1.07	0.51	189	7.3
578	PAYMASTER HS 26	293	.	.	9.8	120	1.01	0.51	182	6.8
1018	TAMCOT SPHINX	217	.	.	8.6	108	1.06	0.52	186	6.6
773	ACALA MAXXA	153	.	.	10.5	155	1.10	0.54	238	6.4
.	LSD	53	.	.	.	15	0.08	0.03	.	0.6

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

VARIETY CODE	VARIETY NAME	2.5% MICRONAIRE (Reading)	UNIFO- S.L. (in.)	MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)
							HUNTER'S Rd	b		
953	SG 125	4.60	1.00	81.4	22.5	8.8	62.5	8.4	4.95	16.50
689	DELTAPINE 50	4.75	1.00	82.3	22.0	8.5	63.5	7.1	5.00	17.59
893	STV LA 887	4.80	1.00	81.2	27.5	9.0	59.0	7.9	5.00	18.37
578	PAYMASTER HS 26	4.60	0.90	81.2	29.0	9.4	59.5	6.8	4.90	16.43
1018	TAMCOT SPHINX	4.40	1.00	82.0	25.0	8.6	62.5	7.6	4.45	16.94
773	ACALA MAXXA	4.30	1.10	83.2	32.0	9.2	55.5	7.3	4.55	16.53
.	LSD	0.52	.	.	.	.	4.8	0.9	.	0.87

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	AREALOMETER DATA						
				A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
953	SG 125	3.66	0.33	419	17.5	1.49	93	44.85	4.16	3.1
689	DELTAPINE 50	3.36	0.44	.	.	.	.	.	.	.
893	STV LA 887	3.59	0.44	416	15.5	1.45	96	43.61	4.05	3.1
578	PAYMASTER HS 26	3.77	0.26	448	26.5	1.69	86	47.38	4.09	2.8
1018	TAMCOT SPHINX	3.56	0.39	.	.	.	.	.	.	.
773	ACALA MAXXA	3.78	0.28	511	28.5	1.73	85	42.58	3.24	2.4
.	LSD	0.31	0.17	.	.	0.28	.	.	.	.

THRALL, TX

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
							2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
578	PAYMASTER HS 26	413	5.60	38.0	9.5	131	1.00	0.51	206	7.9
893	STV LA 887	405	5.85	41.0	9.8	144	1.11	0.55	227	6.7
953	SG 125	404	5.25	40.0	8.7	118	1.05	0.56	179	7.1
689	DELTAPINE 50	404	5.30	36.7	9.1	126	1.10	0.56	192	7.1
773	ACALA MAXXA	368	5.90	42.7	10.4	165	1.11	0.59	251	7.1
1018	TAMCOT SPHINX	332	5.40	38.3	9.8	130	1.01	0.54	215	6.3
.	LSD	55	1.26	.	.	12	.	0.03	.	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)	E	COLORIMETER		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							HUNTER'S Rd	b			
578	PAYMASTER HS 26	4.75	1.00	82.3	29.0	9.6	71.0	8.8	4.75	704	19.11
893	STV LA 887	4.60	1.05	84.0	31.0	10.0	65.0	9.7	4.80	672	19.44
953	SG 125	4.75	1.00	83.8	25.5	9.2	71.0	9.6	4.75	611	16.91
689	DELTAPINE 50	4.60	1.05	84.1	26.0	9.1	70.5	8.7	4.70	752	19.01
773	ACALA MAXXA	4.10	1.10	83.9	34.5	9.4	69.0	8.6	4.10	508	17.99
1018	TAMCOT SPHINX	4.85	1.00	82.8	31.0	9.3	70.5	8.4	5.00	532	18.06
.	LSD	0.63	.	.	.	.	5.7	0.8	.	191	1.33

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A		D	M	p	w	t	
				---	---						
				--- (mm ² /mm ³) ---							
				I	(%)	(microns)		(mg/in)		(microns)	
578	PAYMASTER HS 26	3.66	0.46	439	22.5	1.61	89	46.03	4.06	2.8	
893	STV LA 887	3.45	0.48	434	19.3	1.53	92	44.20	3.94	2.9	
953	SG 125	3.50	0.34	424	14.8	1.43	96	42.24	3.85	3.1	
689	DELTAPINE 50	3.34	0.48	.	.	.	.	.	.	.
773	ACALA MAXXA	3.90	0.41	492	23.5	1.63	89	41.61	3.28	2.5	
1018	TAMCOT SPHINX	3.70	0.43	.	.	.	.	.	.	.
.	LSD	0.71	0.03	.	.	0.14	.	.	.	.



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

Questions or comments to: ekeene@ag.gov

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1998 National Cotton Variety Test



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National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data

1998 PLAINS REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

PLAINS REGION

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1021	BS&D TEJAS	707	4.84	35.7	10.9	121	1.05	0.53	220	9.5
953	SG 125	697	4.47	38.3	10.3	109	1.11	0.54	199	8.5
578	PAYMASTER HS 26	691	5.25	35.0	11.2	123	1.06	0.54	227	8.9
893	STV LA 887	691	5.26	37.9	11.1	132	1.12	0.55	223	8.2
1019	ALL TEX ATLAS	680	5.08	35.3	11.1	123	1.07	0.54	224	8.4
1018	TAMCOT SPHINX	655	4.32	37.1	10.8	129	1.09	0.54	228	6.8
1020	HOLLAND 186	646	5.25	36.0	11.1	122	1.09	0.54	220	8.4
1022	BS&D UTE	644	4.67	36.3	10.3	135	1.12	0.55	232	7.4
733	COKER 83-127	635	4.95	37.8	12.7	147	1.18	0.58	246	7.1

1023	PAYMASTER PM 183	628	4.46	35.7	10.5	105	0.97	0.50	193	6.5
906	SOUTHLAND 400	585	4.96	33.5	11.6	131	1.08	0.53	221	6.4
773	ACALA MAXXA	529	4.71	40.2	11.6	154	1.16	0.57	258	7.0
.	LSD	170	0.57	2.0	1.3	10	0.04	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)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	MICRONAIRE b (Reading)			
1021	BS&D TEJAS	5.14	1.04	81.8	30.9	10.6	73.3	8.5	5.20	1258	20.50
953	SG 125	4.79	1.10	81.9	26.8	9.9	73.6	8.9	4.84	1072	16.99
578	PAYMASTER HS 26	4.81	1.04	82.3	31.8	10.4	73.9	8.2	4.91	1293	19.54
893	STV LA 887	4.69	1.11	82.8	31.8	10.1	72.9	9.5	4.76	1086	18.83
1019	ALL TEX ATLAS	4.91	1.08	82.1	31.5	10.1	74.4	8.3	4.94	1247	19.30
1018	TAMCOT SPHINX	5.09	1.08	82.0	31.8	10.0	73.6	8.5	5.10	1072	20.32
1020	HOLLAND 186	4.70	1.08	82.2	29.9	10.0	74.0	8.7	4.80	1142	19.96
1022	BS&D UTE	4.58	1.10	82.5	32.0	9.9	74.6	8.4	4.65	1168	20.27
733	COKER 83-127	3.85	1.20	84.0	33.0	9.9	78.0	9.2	3.90	1047	19.18
1023	PAYMASTER PM 183	5.34	0.96	80.6	28.9	9.9	73.0	8.8	5.38	1125	19.39
906	SOUTHLAND 400	4.68	1.08	81.6	31.9	9.8	74.0	8.7	4.78	1154	19.60
773	ACALA MAXXA	4.18	1.13	83.5	35.3	9.9	73.5	7.8	4.17	813	18.68
.	LSD	0.45	0.07	1.5	2.2	0.5	2.7	1.0	0.50	398	1.32

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A		D	M	p	w	t	
				---	---						
				---(mm ² /mm ³)---							
				I	(%)	(microns)	(mg/in)	(microns)			
1021	BS&D TEJAS	3.46	0.57	.	.	.	.	.	.	.
953	SG 125	3.54	0.41	420	20.4	1.56	91	46.58	4.32	3.0	
578	PAYMASTER HS 26	3.43	0.58	416	18.4	1.51	93	45.65	4.25	3.1	
893	STV LA 887	3.37	0.52	433	16.7	1.46	95	42.31	3.79	3.1	
1019	ALL TEX ATLAS	3.46	0.53	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	3.73	0.57	.	.	.	.	.	.	.
1020	HOLLAND 186	3.52	0.47	.	.	.	.	.	.	.

1022	BS&D UTE	3.54	0.51	.	.	.	.	.	.	.
733	COKER 83-127	3.83	0.52	509	16.8	1.48	94	36.44	2.77	2.5
1023	PAYMASTER PM 183	3.54	0.42	.	.	.	.	.	.	.
906	SOUTHLAND 400	3.48	0.41	.	.	.	.	.	.	.
773	ACALA MAXXA	3.83	0.50	485	19.5	1.54	92	39.77	3.18	2.6
.	LSD	0.22	0.16	47.9	11.6	0.29	11	6.50	0.74	0.6

 BOLL SIZE, GRAM PER BOLL

STV LA 887	5.26
HOLLAND 186	5.25
PAYMASTER HS 26	5.25
ALL TEX ATLAS	5.08
SOUTHLAND 400	4.96
COKER 83-127	4.95
BS&D TEJAS	4.84
ACALA MAXXA	4.71
BS&D UTE	4.67
SG 125	4.47
PAYMASTER PM 183	4.46
TAMCOT SPHINX	4.32
LSD	0.57

 LINT PERCENT

ACALA MAXXA	40.2
SG 125	38.3
STV LA 887	37.9
COKER 83-127	37.8
TAMCOT SPHINX	37.1
BS&D UTE	36.3
HOLLAND 186	36.0
PAYMASTER PM 183	35.7
BS&D TEJAS	35.7
ALL TEX ATLAS	35.3
PAYMASTER HS 26	35.0
SOUTHLAND 400	33.5
LSD	2.0

 SEED INDEX

COKER 83-127	12.7
ACALA MAXXA	11.6
SOUTHLAND 400	11.6
PAYMASTER HS 26	11.2
HOLLAND 186	11.1
STV LA 887	11.1
ALL TEX ATLAS	11.1
BS&D TEJAS	10.9
TAMCOT SPHINX	10.8
PAYMASTER PM 183	10.5
BS&D UTE	10.3
SG 125	10.3
LSD	1.3

 2.5% S.L. (INCHES)

COKER 83-127	1.20
ACALA MAXXA	1.13
STV LA 887	1.11

 UR (PERCENT)

COKER 83-127	84.0
ACALA MAXXA	83.5
STV LA 887	82.8

 STRENGTH (G/TEX)

ACALA MAXXA	35.3
COKER 83-127	33.0
BS&D UTE	32.0

BS&D UTE	1.10
SG 125	1.10
SOUTHLAND 400	1.08
TAMCOT SPHINX	1.08
HOLLAND 186	1.08
ALL TEX ATLAS	1.08
PAYMASTER HS 26	1.04
BS&D TEJAS	1.04
PAYMASTER PM 183	0.96
LSD	0.07

BS&D UTE	82.5
PAYMASTER HS 26	82.3
HOLLAND 186	82.2
ALL TEX ATLAS	82.1
TAMCOT SPHINX	82.0
SG 125	81.9
BS&D TEJAS	81.8
SOUTHLAND 400	81.6
PAYMASTER PM 183	80.6
LSD	1.5

SOUTHLAND 400	31.9
STV LA 887	31.8
PAYMASTER HS 26	31.8
TAMCOT SPHINX	31.8
ALL TEX ATLAS	31.5
BS&D TEJAS	30.9
HOLLAND 186	29.9
PAYMASTER PM 183	28.9
SG 125	26.8
LSD	2.2

E

MICRONAIRE (SL-HVI)

COLORIMETER - Rd

BS&D TEJAS	10.6
PAYMASTER HS 26	10.4
ALL TEX ATLAS	10.1
STV LA 887	10.1
HOLLAND 186	10.0
TAMCOT SPHINX	10.0
SG 125	9.9
COKER 83-127	9.9
BS&D UTE	9.9
ACALA MAXXA	9.9
PAYMASTER PM 183	9.9
SOUTHLAND 400	9.8
LSD	0.5

PAYMASTER PM 183	5.38
BS&D TEJAS	5.20
TAMCOT SPHINX	5.10
ALL TEX ATLAS	4.94
PAYMASTER HS 26	4.91
SG 125	4.84
HOLLAND 186	4.80
SOUTHLAND 400	4.78
STV LA 887	4.76
BS&D UTE	4.65
ACALA MAXXA	4.17
COKER 83-127	3.90
LSD	0.50

COKER 83-127	78.0
BS&D UTE	74.6
ALL TEX ATLAS	74.4
HOLLAND 186	74.0
SOUTHLAND 400	74.0
PAYMASTER HS 26	73.9
TAMCOT SPHINX	73.6
SG 125	73.6
ACALA MAXXA	73.5
BS&D TEJAS	73.3
PAYMASTER PM 183	73.0
STV LA 887	72.9
LSD	2.7

COLORIMETER - b

MICRONAIRE

STELOMETER - E1

STV LA 887	9.5
COKER 83-127	9.2

PAYMASTER PM 183	5.34
BS&D TEJAS	5.14

BS&D TEJAS	9.5
PAYMASTER HS 26	8.9

SG 125	8.9
PAYMASTER PM 183	8.8
SOUTHLAND 400	8.7
HOLLAND 186	8.7
BS&D TEJAS	8.5
TAMCOT SPHINX	8.5
BS&D UTE	8.4
ALL TEX ATLAS	8.3
PAYMASTER HS 26	8.2
ACALA MAXXA	7.8
LSD	1.0

TAMCOT SPHINX	5.09
ALL TEX ATLAS	4.91
PAYMASTER HS 26	4.81
SG 125	4.79
HOLLAND 186	4.70
STV LA 887	4.69
SOUTHLAND 400	4.68
BS&D UTE	4.58
ACALA MAXXA	4.18
COKER 83-127	3.85
LSD	0.45

SG 125	8.5
ALL TEX ATLAS	8.4
HOLLAND 186	8.4
STV LA 887	8.2
BS&D UTE	7.4
COKER 83-127	7.1
ACALA MAXXA	7.0
TAMCOT SPHINX	6.8
PAYMASTER PM 183	6.5
SOUTHLAND 400	6.4
LSD	0.9

 STELOMETER - T1

ACALA MAXXA	258
COKER 83-127	246
BS&D UTE	232
TAMCOT SPHINX	228
PAYMASTER HS 26	227
ALL TEX ATLAS	224
STV LA 887	223
SOUTHLAND 400	221
BS&D TEJAS	220
HOLLAND 186	220
SG 125	199
PAYMASTER PM 183	193
LSD	16

 FIBROGRAPH--50% S.L.

COKER 83-127	0.58
ACALA MAXXA	0.57
BS&D UTE	0.55
STV LA 887	0.55
TAMCOT SPHINX	0.54
SG 125	0.54
ALL TEX ATLAS	0.54
HOLLAND 186	0.54
PAYMASTER HS 26	0.54
BS&D TEJAS	0.53
SOUTHLAND 400	0.53
PAYMASTER PM 183	0.50
LSD	0.03

 FIBROGRAPH--2.5% S.L.

COKER 83-127	1.18
ACALA MAXXA	1.16
STV LA 887	1.12
BS&D UTE	1.12
SG 125	1.11
HOLLAND 186	1.09
TAMCOT SPHINX	1.09
SOUTHLAND 400	1.08
ALL TEX ATLAS	1.07
PAYMASTER HS 26	1.06
BS&D TEJAS	1.05
PAYMASTER PM 183	0.97
LSD	0.04

 YARN TENACITY

ACALA MAXXA	154
COKER 83-127	147

 AREALOMETER - A (mm²/mm³)

COKER 83-127	509
ACALA MAXXA	485

 AREALOMETER - D (mm²/mm³)

SG 125	20.4
ACALA MAXXA	19.5

BS&D UTE	135	STV LA 887	433	PAYMASTER HS 26	18.4
STV LA 887	132	SG 125	420	COKER 83-127	16.8
SOUTHLAND 400	131	PAYMASTER HS 26	416	STV LA 887	16.7
TAMCOT SPHINX	129	BS&D UTE	.	BS&D UTE	.
ALL TEX ATLAS	123	SOUTHLAND 400	.	SOUTHLAND 400	.
PAYMASTER HS 26	123	TAMCOT SPHINX	.	TAMCOT SPHINX	.
HOLLAND 186	122	ALL TEX ATLAS	.	ALL TEX ATLAS	.
BS&D TEJAS	121	HOLLAND 186	.	HOLLAND 186	.
SG 125	109	BS&D TEJAS	.	BS&D TEJAS	.
PAYMASTER PM 183	105	PAYMASTER PM 183	.	PAYMASTER PM 183	.
LSD	10	LSD	47.9	LSD	11.6

AREALOMETER - I

AREALOMETER - M (PERCENT)

AREALOMETER - p (Microns)

SG 125	1.56	STV LA 887	95	SG 125	46.58
ACALA MAXXA	1.54	COKER 83-127	94	PAYMASTER HS 26	45.65
PAYMASTER HS 26	1.51	PAYMASTER HS 26	93	STV LA 887	42.31
COKER 83-127	1.48	ACALA MAXXA	92	ACALA MAXXA	39.77
STV LA 887	1.46	SG 125	91	COKER 83-127	36.44
BS&D UTE	.	BS&D UTE	.	BS&D UTE	.
SOUTHLAND 400	.	SOUTHLAND 400	.	SOUTHLAND 400	.
TAMCOT SPHINX	.	TAMCOT SPHINX	.	TAMCOT SPHINX	.
ALL TEX ATLAS	.	ALL TEX ATLAS	.	ALL TEX ATLAS	.
HOLLAND 186	.	HOLLAND 186	.	HOLLAND 186	.
BS&D TEJAS	.	BS&D TEJAS	.	BS&D TEJAS	.
PAYMASTER PM 183	.	PAYMASTER PM 183	.	PAYMASTER PM 183	.
LSD	0.29	LSD	11	LSD	6.50

AREALOMETER - w (MG/INCH)

AREALOMETER - t (MICRONS)

SEED YIELD (LB/ACRE)

SG 125	4.32	PAYMASTER HS 26	3.1	PAYMASTER HS 26	1293
PAYMASTER HS 26	4.25	STV LA 887	3.1	BS&D TEJAS	1258

STV LA 887	3.79	SG 125	3.0	ALL TEX ATLAS	1247
ACALA MAXXA	3.18	ACALA MAXXA	2.6	BS&D UTE	1168
COKER 83-127	2.77	COKER 83-127	2.5	SOUTHLAND 400	1154
BS&D UTE	.	BS&D UTE	.	HOLLAND 186	1142
SOUTHLAND 400	.	SOUTHLAND 400	.	PAYMASTER PM 183	1125
TAMCOT SPHINX	.	TAMCOT SPHINX	.	STV LA 887	1086
ALL TEX ATLAS	.	ALL TEX ATLAS	.	SG 125	1072
HOLLAND 186	.	HOLLAND 186	.	TAMCOT SPHINX	1072
BS&D TEJAS	.	BS&D TEJAS	.	COKER 83-127	1047
PAYMASTER PM 183	.	PAYMASTER PM 183	.	ACALA MAXXA	813
LSD	0.74	LSD	0.6	LSD	398

OIL (PERCENT)

NITROGEN (PERCENT)

FREE GOSSYPOL (PERCENT)

BS&D TEJAS	20.50	ACALA MAXXA	3.83	PAYMASTER HS 26	0.58
TAMCOT SPHINX	20.32	COKER 83-127	3.83	TAMCOT SPHINX	0.57
BS&D UTE	20.27	TAMCOT SPHINX	3.73	BS&D TEJAS	0.57
HOLLAND 186	19.96	BS&D UTE	3.54	ALL TEX ATLAS	0.53
SOUTHLAND 400	19.60	PAYMASTER PM 183	3.54	STV LA 887	0.52
PAYMASTER HS 26	19.54	SG 125	3.54	COKER 83-127	0.52
PAYMASTER PM 183	19.39	HOLLAND 186	3.52	BS&D UTE	0.51
ALL TEX ATLAS	19.30	SOUTHLAND 400	3.48	ACALA MAXXA	0.50
COKER 83-127	19.18	BS&D TEJAS	3.46	HOLLAND 186	0.47
STV LA 887	18.83	ALL TEX ATLAS	3.46	PAYMASTER PM 183	0.42
ACALA MAXXA	18.68	PAYMASTER HS 26	3.43	SOUTHLAND 400	0.41
SG 125	16.99	STV LA 887	3.37	SG 125	0.41
LSD	1.32	LSD	0.22	LSD	0.16

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)			(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
ALTUS, OK (IRR)	1091	5.69	38.2	11.2	128	1.10	0.56	216	7.9
LUBBOCK, TX (IRR)	810	5.14	35.0	11.4	123	1.11	0.54	217	8.2
CHILLICOTHE, TX (DRY)	681	.	.	.	.	.	.	.	.
TIPTON, OK	531	4.87	37.1	10.8	132	1.06	0.54	232	7.7
LAMESA, TX (DRY)	148	3.70	35.2	10.4	120	1.07	0.52	222	7.4

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

LOCATION	MICRONAIRE	2.5% S.L.	UNIFO-	STRE-	E	COLORIMETER		MICRONAIRE	SEED	OIL
						HUNTER'S	b			
	(Reading)	(in.)	MITY	NGTH		Rd		(Reading)	(lb/ac)	(%)
ALTUS, OK (IRR)	5.01	1.08	82.7	30.3	9.9	71.8	7.9	4.81	1810	20.44
LUBBOCK, TX (IRR)	4.37	1.10	82.2	29.9	10.2	76.5	9.3	4.55	1520	20.10
CHILLICOTHE, TX (DRY)	.	.	.	.	.	.	.	.	.	.
TIPTON, OK	5.26	1.06	81.9	33.2	10.1	72.0	8.5	5.26	937	19.31
LAMESA, TX (DRY)	4.55	1.05	81.6	30.8	10.0	74.9	8.8	4.81	274	17.79

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

LOCATION	FREE	NITROGEN	GOSSYPOL	A	D	I	M	p	w	t
ALTUS, OK (IRR)		3.50	0.57	436	21.7	1.59	90	45.90	4.10	2.9
LUBBOCK, TX (IRR)		3.49	0.59	473	21.3	1.58	90	42.05	3.46	2.7
CHILLICOTHE, TX (DRY)	
TIPTON, OK		3.64	0.44	411	14.8	1.42	96	43.74	4.18	3.2

LAMESA, TX (DRY) 3.51 0.39 440 16.6 1.46 95 41.79 3.70 3.0

VARIETIES COMBINING LOCATIONS FOR PLAINS SUB REGION -- LUBBOCK AND LaMESA LOCATIONS

VARIETY CODE	VARIETY NAME	LINT YIELD (lb/acre)	BOLL SIZE (g/boll)	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH 2.5% S.L. (inches)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
733	COKER 83-127	635	4.95	37.8	12.7	147	1.18	0.58	246	7.1
578	PAYMASTER HS 26	552	4.80	33.4	11.0	119	1.07	0.52	230	9.1
1021	BS&D TEJAS	542	4.38	33.8	11.1	119	1.07	0.53	223	9.2
1022	BS&D UTE	526	4.40	35.5	10.4	130	1.12	0.53	226	7.7
1023	PAYMASTER PM 183	502	4.10	35.0	10.6	103	0.97	0.50	188	6.6
1019	ALL TEX ATLAS	501	4.58	33.3	11.0	120	1.08	0.53	224	8.5
953	SG 125	475	4.15	36.6	10.7	107	1.13	0.54	198	8.3
1020	HOLLAND 186	469	4.60	35.1	10.5	115	1.10	0.53	217	8.0
1018	TAMCOT SPHINX	457	4.08	35.7	11.0	128	1.10	0.54	226	6.8
893	STV LA 887	453	4.78	36.5	11.0	125	1.12	0.53	219	8.3
906	SOUTHLAND 400	423	4.50	33.3	11.3	128	1.08	0.52	215	6.4
773	ACALA MAXXA	105	3.50	37.8	11.0	144	1.17	0.55	252	7.0
.	LSD	170	0.57	2.0	1.3	10	0.04	0.03	16	0.9

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

VARIETY CODE	VARIETY NAME	2.5% MICRONAIRE (Reading)	UNIFO- S.L. (in.)	STRE- MITY (%)	STRE- NGTH (g/tex)	SEED YIELD (lb/ac)	OIL (%)	COLORIMETER HUNTER'S Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
733	COKER 83-127	3.85	1.20	84.0	33.0	9.9	78.0	9.2	3.90	1047	19.18	
578	PAYMASTER HS 26	4.40	1.03	82.0	30.8	10.5	76.0	8.4	4.70	1117	19.24	
1021	BS&D TEJAS	4.75	1.05	81.9	30.3	11.0	75.5	8.9	4.98	1074	20.21	

1022	BS&D UTE	4.23	1.10	81.9	31.5	10.0	76.5	8.9	4.40	949	20.13
1023	PAYMASTER PM 183	5.05	0.95	81.0	28.5	9.9	75.3	9.7	5.20	921	18.96
1019	ALL TEX ATLAS	4.63	1.08	81.8	30.0	10.3	76.0	8.6	4.75	1062	18.75
953	SG 125	4.33	1.10	81.9	26.8	10.0	75.0	9.3	4.68	827	16.25
1020	HOLLAND 186	4.43	1.08	81.6	29.0	10.0	75.5	8.9	4.58	870	19.63
1018	TAMCOT SPHINX	4.70	1.10	81.8	30.8	10.0	75.8	9.2	4.95	819	20.30
893	STV LA 887	4.40	1.10	82.3	31.5	10.0	74.3	9.8	4.65	784	17.77
906	SOUTHLAND 400	4.43	1.05	81.5	31.5	9.7	76.0	9.1	4.68	837	18.82
773	ACALA MAXXA	3.70	1.15	82.8	34.0	9.7	75.5	8.6	3.95	174	17.57
.	LSD	0.45	0.07	1.5	2.2	0.5	2.7	1.0	0.50	398	1.32

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

VARIETY CODE	VARIETY NAME	FREE		A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
		NITROGEN (%)	GOSSYPOL (%)							
733	COKER 83-127	3.83	0.52	509	16.8	1.48	94	36.44	2.77	2.5
578	PAYMASTER HS 26	3.31	0.53	431	20.5	1.56	91	45.46	4.08	2.9
1021	BS&D TEJAS	3.43	0.55	.	.	.	.	.	.	.
1022	BS&D UTE	3.49	0.53	.	.	.	.	.	.	.
1023	PAYMASTER PM 183	3.54	0.42	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.35	0.53	.	.	.	.	.	.	.
953	SG 125	3.57	0.40	443	21.0	1.57	91	44.51	3.90	2.9
1020	HOLLAND 186	3.52	0.45	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	3.64	0.65	.	.	.	.	.	.	.
893	STV LA 887	3.36	0.48	446	15.5	1.43	96	39.94	3.45	3.0
906	SOUTHLAND 400	3.48	0.38	.	.	.	.	.	.	.
773	ACALA MAXXA	3.76	0.50	503	20.8	1.57	91	39.09	3.01	2.5
.	LSD	0.22	0.16	47.9	11.6	0.29	11	6.50	0.74	0.6

VARIETIES COMBINING LOCATIONS FOR PLAINS SUB REGION -- ALTUS, CHILLOCOTHE, AND TIPTON LOCATIONS

-----AREALOMETER DATA-----										
VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A	D	I	M	p	w	t
				---(mm2/mm3)---			(%)	(microns)	(mg/in)	(microns)
893	STV LA 887	3.38	0.56	421	17.9	1.50	93	44.68	4.13	3.1
953	SG 125	3.51	0.42	397	19.8	1.54	92	48.64	4.74	3.2
1021	BS&D TEJAS	3.49	0.59	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.56	0.54	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	3.82	0.50	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.56	0.62	400	16.4	1.46	94	45.84	4.43	3.2
1020	HOLLAND 186	3.51	0.48	.	.	.	.	.	.	.
1022	BS&D UTE	3.60	0.50	.	.	.	.	.	.	.
1023	PAYMASTER PM 183	3.54	0.41	.	.	.	.	.	.	.
906	SOUTHLAND 400	3.48	0.45	.	.	.	.	.	.	.
773	ACALA MAXXA	3.86	0.50	477	18.9	1.52	93	40.11	3.27	2.7
.	LSD	.	.	.	.	.	.	.	.	.

VARIETIES BY LOCATIONS

LUBBOCK, TX (IRR)

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)			TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
578	PAYMASTER HS 26	948	5.55	33.0	12.0	120	1.08	0.52	222	9.3
1021	BS&D TEJAS	884	4.90	33.5	11.1	122	1.09	0.53	215	9.3

1019	ALL TEX ATLAS	865	5.65	31.8	12.0	118	1.10	0.53	216	9.2
1022	BS&D UTE	865	5.05	35.8	10.7	133	1.15	0.55	224	8.3
1023	PAYMASTER PM 183	847	4.75	35.4	10.6	103	1.01	0.51	188	6.8
1020	HOLLAND 186	819	5.45	35.0	11.3	119	1.14	0.55	216	8.4
893	STV LA 887	773	5.35	36.7	11.8	128	1.13	0.54	218	8.7
1018	TAMCOT SPHINX	773	5.00	35.9	11.1	128	1.12	0.55	226	7.6
953	SG 125	753	4.80	36.4	10.6	110	1.15	0.56	199	8.7
906	SOUTHLAND 400	746	5.05	33.7	12.1	130	1.11	0.53	220	7.1
733	COKER 83-127	635	4.95	37.8	12.7	147	1.18	0.58	246	7.1
.	LSD	89	1.06	.	.	8	0.03	0.03	.	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)	E	COLORIMETER HUNTER'S (Rd b)		SEED MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
578	PAYMASTER HS 26	4.50	1.05	82.3	29.5	11.0	77.0	9.2	4.75	1929	20.51
1021	BS&D TEJAS	4.80	1.10	82.1	29.5	11.0	76.0	9.0	5.00	1758	21.39
1019	ALL TEX ATLAS	4.60	1.10	82.4	28.5	10.5	77.0	9.3	4.70	1864	20.08
1022	BS&D UTE	4.05	1.10	82.3	31.5	10.0	77.0	9.1	4.25	1555	20.63
1023	PAYMASTER PM 183	5.05	1.00	81.3	29.0	10.0	76.0	10.0	5.20	1546	20.47
1020	HOLLAND 186	4.35	1.10	82.2	29.0	10.0	76.0	8.7	4.45	1521	20.59
893	STV LA 887	4.10	1.10	82.6	30.5	10.0	74.5	9.9	4.35	1333	18.79
1018	TAMCOT SPHINX	4.60	1.10	81.9	30.5	10.0	76.0	9.5	4.80	1383	21.81
953	SG 125	4.00	1.10	81.9	26.5	10.0	76.5	9.8	4.20	1319	17.33
906	SOUTHLAND 400	4.20	1.10	81.9	31.5	9.9	77.0	9.2	4.45	1470	20.36
733	COKER 83-127	3.85	1.20	84.0	33.0	9.9	78.0	9.2	3.90	1047	19.18
.	LSD	0.21	.	.	.	.	1.5	0.7	.	222	1.20

AREALOMETER DATA-----

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A --- (mm ² /mm ³) ---	D	M (%)	p (microns)	w (mg/in)	t (microns)
						I			

578	PAYMASTER HS 26	3.30	0.68	436	19.5	1.54	92	44.33	3.94	2.9
1021	BS&D TEJAS	3.50	0.69	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.45	0.68	.	.	.	.	.	.	.
1022	BS&D UTE	3.38	0.70	.	.	.	.	.	.	.
1023	PAYMASTER PM 183	3.47	0.52	.	.	.	.	.	.	.
1020	HOLLAND 186	3.48	0.56	.	.	.	.	.	.	.
893	STV LA 887	3.46	0.55	475	24.3	1.65	88	43.51	3.54	2.6
1018	TAMCOT SPHINX	3.57	0.64	.	.	.	.	.	.	.
953	SG 125	3.60	0.48	473	24.8	1.66	87	43.91	3.59	2.6
906	SOUTHLAND 400	3.36	0.48	.	.	.	.	.	.	.
733	COKER 83-127	3.83	0.52	509	16.8	1.48	94	36.44	2.77	2.5
.	LSD	0.27	0.09	.	.	0.11	.	.	.	.

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)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
1021	BS&D TEJAS	201	3.85	34.1	11.1	117	1.05	0.53	230	9.2
953	SG 125	197	3.50	36.9	10.8	103	1.12	0.52	198	7.9
1022	BS&D UTE	187	3.75	35.3	10.0	128	1.10	0.51	229	7.2
1023	PAYMASTER PM 183	156	3.45	34.6	10.7	102	0.94	0.49	188	6.3
578	PAYMASTER HS 26	155	4.05	33.9	10.1	118	1.05	0.52	237	8.8
1018	TAMCOT SPHINX	142	3.15	35.6	11.0	128	1.08	0.52	227	6.0
1019	ALL TEX ATLAS	137	3.50	34.7	10.1	122	1.07	0.52	232	7.9
893	STV LA 887	133	4.20	36.2	10.1	123	1.11	0.52	220	8.0
1020	HOLLAND 186	118	3.75	35.1	9.7	112	1.07	0.50	217	7.7
773	ACALA MAXXA	105	3.50	37.8	11.0	144	1.17	0.55	252	7.0
906	SOUTHLAND 400	101	3.95	33.0	10.5	126	1.04	0.51	209	5.8
.	LSD	85	0.89	.	.	9	0.02	0.02	.	0.6

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO- MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							HUNTER'S Rd	b			
1021	BS&D TEJAS	4.70	1.00	81.7	31.0	11.0	75.0	8.8	4.95	390	19.03
953	SG 125	4.65	1.10	81.9	27.0	10.0	73.5	8.7	5.15	336	15.18
1022	BS&D UTE	4.40	1.10	81.6	31.5	9.9	76.0	8.6	4.55	343	19.64
1023	PAYMASTER PM 183	5.05	0.90	80.7	28.0	9.9	74.5	9.5	5.20	296	17.45
578	PAYMASTER HS 26	4.30	1.00	81.7	32.0	10.0	75.0	7.7	4.65	304	17.96
1018	TAMCOT SPHINX	4.80	1.10	81.8	31.0	10.0	75.5	9.0	5.10	254	18.79
1019	ALL TEX ATLAS	4.65	1.05	81.2	31.5	10.0	75.0	8.0	4.80	260	17.42
893	STV LA 887	4.70	1.10	82.1	32.5	10.0	74.0	9.7	4.95	234	16.76
1020	HOLLAND 186	4.50	1.05	81.0	29.0	10.0	75.0	9.2	4.70	218	18.67
773	ACALA MAXXA	3.70	1.15	82.8	34.0	9.7	75.5	8.6	3.95	174	17.57
906	SOUTHLAND 400	4.65	1.00	81.0	31.5	9.6	75.0	9.0	4.90	205	17.27
.	LSD	0.27	.	.	.	.	1.3	1.0	.	159	1.93

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A		D	M	p	w	t	
				---	---						
				A		D		M		p	
				---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)	
1021	BS&D TEJAS	3.36	0.42	.	.	.	.	.	.	.
953	SG 125	3.53	0.32	414	17.3	1.49	94	45.12	4.22	3.1	
1022	BS&D UTE	3.60	0.36	.	.	.	.	.	.	.
1023	PAYMASTER PM 183	3.62	0.32	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.32	0.38	427	21.5	1.59	90	46.59	4.22	2.9	
1018	TAMCOT SPHINX	3.71	0.66	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.26	0.38	.	.	.	.	.	.	.
893	STV LA 887	3.26	0.41	418	6.8	1.21	104	36.38	3.37	3.5	
1020	HOLLAND 186	3.56	0.35	.	.	.	.	.	.	.
773	ACALA MAXXA	3.76	0.50	503	20.8	1.57	91	39.09	3.01	2.5	
906	SOUTHLAND 400	3.60	0.28	.	.	.	.	.	.	.
.	LSD	0.20	0.34	.	.	0.23	.	.	.	.

 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)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
953	SG 125	1189	5.13	40.2	10.1	110	1.11	0.56	190	8.9
578	PAYMASTER HS 26	1182	6.38	36.7	12.0	127	1.10	0.58	217	8.9
1018	TAMCOT SPHINX	1158	5.19	39.4	11.0	127	1.10	0.56	224	7.7
1019	ALL TEX ATLAS	1151	6.04	37.5	11.4	124	1.08	0.56	212	7.9
1021	BS&D TEJAS	1149	5.61	38.2	10.8	124	1.04	0.56	213	9.8
1023	PAYMASTER PM 183	1078	5.27	37.2	11.0	115	1.00	0.53	196	6.9
1020	HOLLAND 186	1056	6.25	37.6	11.9	131	1.12	0.56	219	8.7
1022	BS&D UTE	1038	5.26	37.6	10.4	138	1.13	0.57	229	7.3
893	STV LA 887	1022	5.83	40.4	10.8	130	1.12	0.55	221	8.2
906	SOUTHLAND 400	997	5.90	34.5	12.5	135	1.11	0.55	220	6.3
773	ACALA MAXXA	985	5.71	41.5	11.7	152	1.15	0.58	238	7.1
.	LSD	115	0.52	.	.	10	0.04	0.02	.	1.8

 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)	E	COLORIMETER HUNTER'S Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
953	SG 125	5.05	1.10	82.5	25.0	9.8	71.5	8.2	4.40	2008	18.24
578	PAYMASTER HS 26	5.10	1.10	83.7	31.0	10.0	73.0	7.8	5.05	2120	20.65
1018	TAMCOT SPHINX	5.70	1.05	83.4	32.0	10.0	73.0	7.1	5.20	1748	21.26
1019	ALL TEX ATLAS	4.90	1.10	83.0	31.0	10.0	74.0	7.9	4.85	1984	20.67
1021	BS&D TEJAS	5.40	1.00	82.3	29.5	10.0	72.0	8.1	5.25	1852	21.03
1023	PAYMASTER PM 183	5.40	1.00	81.3	28.5	9.8	68.5	8.4	5.20	1869	20.62
1020	HOLLAND 186	4.80	1.10	83.2	30.0	10.0	73.0	7.9	4.65	1667	21.34
1022	BS&D UTE	4.85	1.10	82.8	30.5	9.7	71.5	7.5	4.70	1672	21.06

893	STV LA 887	.	.	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	.	.	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	.	.	.	.	.	.	.	.	.
1021	BS&D TEJAS	.	.	.	.	.	.	.	.	.
1020	HOLLAND 186	.	.	.	.	.	.	.	.	.
1023	PAYMASTER PM 183	.	.	.	.	.	.	.	.	.
906	SOUTHLAND 400	.	.	.	.	.	.	.	.	.
1022	BS&D UTE	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.

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 (%)
893	STV LA 887	777	5.65	38.2	11.6	147	1.13	0.58	231	7.9
1020	HOLLAND 186	575	5.56	36.2	11.6	129	1.05	0.55	226	8.8
1021	BS&D TEJAS	573	5.00	37.0	10.8	122	1.01	0.52	221	9.8
773	ACALA MAXXA	563	4.93	41.4	12.2	167	1.17	0.59	283	6.9
953	SG 125	549	4.46	39.6	9.5	115	1.08	0.54	208	8.5
1022	BS&D UTE	542	4.62	36.4	10.1	144	1.11	0.56	245	6.8
1019	ALL TEX ATLAS	511	5.12	37.2	10.9	130	1.05	0.55	236	8.5
906	SOUTHLAND 400	476	4.93	33.0	11.3	134	1.05	0.54	234	6.7
1018	TAMCOT SPHINX	456	3.95	37.5	10.1	135	1.06	0.54	235	6.2
578	PAYMASTER HS 26	412	5.01	36.5	10.9	128	1.02	0.53	234	8.5
1023	PAYMASTER PM 183	407	4.39	35.6	10.0	102	0.94	0.50	199	5.9
.	LSD	129	0.47	.	.	7	0.08	0.03	.	1.5

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)	E	HUNTER'S Rd	MICRONAIRE b	YIELD (Reading)	(lb/ac)	OIL (%)
893	STV LA 887	5.30	1.15	84.0	34.5	10.5	72.0	9.4	5.25	1203	20.38
1020	HOLLAND 186	5.15	1.05	82.3	31.5	10.0	72.0	9.0	5.40	1162	19.24
1021	BS&D TEJAS	5.65	1.05	81.0	33.5	10.5	70.0	8.3	5.60	1034	20.56
773	ACALA MAXXA	4.50	1.10	84.0	37.5	10.0	73.5	8.1	4.30	796	18.85
953	SG 125	5.45	1.10	81.3	28.5	10.0	73.0	9.1	5.60	626	17.24
1022	BS&D UTE	5.00	1.10	83.2	34.5	10.0	74.0	8.5	5.10	1103	19.76
1019	ALL TEX ATLAS	5.50	1.05	81.7	35.0	10.0	71.5	8.1	5.40	881	19.04
906	SOUTHLAND 400	4.90	1.10	81.6	32.5	9.9	73.0	8.6	4.85	991	19.86
1018	TAMCOT SPHINX	5.25	1.05	81.0	33.5	9.9	70.0	8.5	5.30	901	19.45
578	PAYMASTER HS 26	5.35	1.00	81.5	34.5	10.5	70.5	8.3	5.20	820	19.05
1023	PAYMASTER PM 183	5.85	0.95	79.2	30.0	9.8	73.0	7.4	5.90	790	19.02
.	LSD	0.43	.	.	.	.	2.5	2.2	.	417	1.55

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

VARIETY CODE	VARIETY NAME	FREE		A ---(mm2/mm3)---	D	M I	M (%)	p (microns)	w (mg/in)	t (microns)
		NITROGEN (%)	GOSSYPOL (%)							
893	STV LA 887	3.45	0.56	394	13.8	1.40	97	44.64	4.39	3.4
1020	HOLLAND 186	3.52	0.41	.	.	.	.	.	.	.
1021	BS&D TEJAS	3.52	0.56	.	.	.	.	.	.	.
773	ACALA MAXXA	3.93	0.44	484	17.8	1.49	94	38.60	3.09	2.7
953	SG 125	3.59	0.37	379	16.0	1.45	95	48.10	4.90	3.4
1022	BS&D UTE	3.60	0.41	.	.	.	.	.	.	.
1019	ALL TEX ATLAS	3.70	0.51	.	.	.	.	.	.	.
906	SOUTHLAND 400	3.54	0.35	.	.	.	.	.	.	.
1018	TAMCOT SPHINX	3.89	0.38	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.68	0.50	387	11.5	1.35	99	43.62	4.35	3.5
1023	PAYMASTER PM 183	3.63	0.37	.	.	.	.	.	.	.
.	LSD	0.34	0.11	.	.	0.23	.	.	.	.

[RETURN TO 1998 NCVT COVER PAGE](#)



***Thank you for your interest in the ongoing work of the
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National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data

1998 WESTERN REGIONAL COTTON VARIETY TEST

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		STELOMETER	
							2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1097	PAYMASTER PM 1560 BG	1109	4.75	38.9	10.4	112	1.12	0.55	184	9.0
953	SG 125	1105	4.88	38.6	9.8	110	1.13	0.55	185	8.9
1098	ACALA B 8073	1070	5.08	38.1	10.9	144	1.22	0.60	235	7.5
1099	DPL NuCotn 35	1053	4.55	37.2	9.1	132	1.16	0.56	211	7.7
874	ACALA 1517-95	1042	5.65	37.6	11.5	139	1.23	0.61	238	7.3
773	ACALA MAXXA	1037	5.62	40.3	11.5	141	1.16	0.57	224	7.3
893	STV LA 887	925	5.49	39.3	10.6	118	1.13	0.56	208	8.6

578	PAYMASTER HS 26	897	5.52	35.7	10.5	120	1.10	0.54	214	8.7
756	ACALA PREMA	849	5.81	37.2	11.5	147	1.17	0.58	243	7.5
1012	ACALA 1517-95	669	4.60	35.4	11.6	140	1.11	0.53	226	6.4
.	LSD	.	.	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	E	COLORIMETER HUNTER'S Rd	b	MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
1097	PAYMASTER PM 1560 BG	4.43	1.05	81.7	26.0	10.0	76.0	7.7	4.18	1380	21.04
953	SG 125	4.37	1.10	82.7	26.0	10.0	77.0	8.6	4.15	1341	19.57
1098	ACALA B 8073	3.88	1.23	85.1	30.8	9.8	76.0	7.5	3.90	1371	22.34
1099	DPL NuCotn 35	3.97	1.13	83.2	28.8	9.3	78.0	7.3	3.88	1415	21.29
874	ACALA 1517-95	4.13	1.20	86.8	30.5	10.0	77.5	9.4	3.85	1463	23.02
773	ACALA MAXXA	4.33	1.15	83.1	30.5	9.5	77.0	7.4	3.85	1183	21.19
893	STV LA 887	4.50	1.05	82.4	29.0	10.2	76.5	6.7	4.65	1127	20.54
578	PAYMASTER HS 26	4.50	1.10	83.2	28.5	10.0	76.8	8.7	4.33	1373	20.19
756	ACALA PREMA	3.85	1.15	83.3	31.0	9.7	78.5	7.8	3.60	1073	21.73
1012	ACALA 1517-95	4.10	1.10	81.6	32.5	9.4	76.5	6.2	4.15	1219	20.46
.	LSD	.	.	.	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A --- (mm2/mm3) ---	D	M I (%)	p (microns)	w (mg/in)	t (microns)	
1097	PAYMASTER PM 1560 BG	3.33	0.79	.	.	.	.	.	.
953	SG 125	3.19	0.75	466	26.4	1.68	86	45.18	3.76	2.7
1098	ACALA B 8073	3.33	0.77	.	.	.	.	.	.	.
1099	DPL NuCotn 35	3.18	0.65	.	.	.	.	.	.	.
874	ACALA 1517-95	3.34	0.76	.	.	.	.	.	.	.
773	ACALA MAXXA	3.58	0.58	465	16.8	1.47	94	39.80	3.35	2.8
893	STV LA 887	3.16	0.76	450	20.3	1.55	91	43.18	3.71	2.8

578	PAYMASTER HS 26	3.22	0.73	444	21.8	1.58	90	44.93	3.94	2.9
756	ACALA PREMA	3.28	0.60	.	.	.	.	.	.	.
1012	ACALA 1517-95	3.11	0.77	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.

 BOLL SIZE, GRAM PER BOLL

ACALA PREMA	5.81
ACALA 1517-95	5.65
ACALA MAXXA	5.62
PAYMASTER HS 26	5.52
STV LA 887	5.49
ACALA B 8073	5.08
SG 125	4.89
PAYMASTER PM 1560 BG	4.75
ACALA 1517-95	4.60
DPL NuCotn 35	4.55

 LINT PERCENT

ACALA MAXXA	40.3
STV LA 887	39.3
PAYMASTER PM 1560 BG	38.9
SG 125	38.6
ACALA B 8073	38.1
ACALA 1517-95	37.6
ACALA PREMA	37.2
DPL NuCotn 35	37.2
PAYMASTER HS 26	35.7
ACALA 1517-95	35.4

 SEED INDEX

ACALA 1517-95	11.6
ACALA PREMA	11.5
ACALA 1517-95	11.5
ACALA MAXXA	11.5
ACALA B 8073	10.9
STV LA 887	10.6
PAYMASTER HS 26	10.5
PAYMASTER PM 1560 BG	10.4
SG 125	9.9
DPL NuCotn 35	9.1

 2.5% S.L. (INCHES)

ACALA B 8073	1.23
ACALA 1517-95	1.20
ACALA PREMA	1.15
ACALA MAXXA	1.15
DPL NuCotn 35	1.13
ACALA 1517-95	1.10
PAYMASTER HS 26	1.10
SG 125	1.10
STV LA 887	1.05
PAYMASTER PM 1560 BG	1.05

 UR (PERCENT)

ACALA 1517-95	86.8
ACALA B 8073	85.1
ACALA PREMA	83.3
DPL NuCotn 35	83.2
PAYMASTER HS 26	83.2
ACALA MAXXA	83.1
SG 125	82.7
STV LA 887	82.4
PAYMASTER PM 1560 BG	81.7
ACALA 1517-95	81.6

 STRENGTH (G/TEX)

ACALA 1517-95	32.5
ACALA PREMA	31.0
ACALA B 8073	30.8
ACALA 1517-95	30.5
ACALA MAXXA	30.5
STV LA 887	29.0
DPL NuCotn 35	28.8
PAYMASTER HS 26	28.5
SG 125	26.0
PAYMASTER PM 1560 BG	26.0

E		MICRONAIRE (SL-HVI)		COLORIMETER - Rd	
STV LA 887	10.2	STV LA 887	4.65	ACALA PREMA	78.5
SG 125	10.0	PAYMASTER HS 26	4.33	DPL NuCotn 35	78.0
PAYMASTER HS 26	10.0	PAYMASTER PM 1560 BG	4.18	ACALA 1517-95	77.5
ACALA 1517-95	10.0	SG 125	4.15	SG 125	77.0
PAYMASTER PM 1560 BG	10.0	ACALA 1517-95	4.15	ACALA MAXXA	77.0
ACALA B 8073	9.8	ACALA B 8073	3.90	PAYMASTER HS 26	76.8
ACALA PREMA	9.7	DPL NuCotn 35	3.88	STV LA 887	76.5
ACALA MAXXA	9.5	ACALA 1517-95	3.85	ACALA 1517-95	76.5
ACALA 1517-95	9.4	ACALA MAXXA	3.85	PAYMASTER PM 1560 BG	76.0
DPL NuCotn 35	9.3	ACALA PREMA	3.60	ACALA B 8073	76.0

COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
ACALA 1517-95	9.4	PAYMASTER HS 26	4.50	SG 125	9.0
PAYMASTER HS 26	8.7	STV LA 887	4.50	PAYMASTER PM 1560 BG	9.0
SG 125	8.6	PAYMASTER PM 1560 BG	4.43	PAYMASTER HS 26	8.7
ACALA PREMA	7.8	SG 125	4.40	STV LA 887	8.6
PAYMASTER PM 1560 BG	7.7	ACALA MAXXA	4.33	DPL NuCotn 35	7.7
ACALA B 8073	7.5	ACALA 1517-95	4.13	ACALA B 8073	7.5
ACALA MAXXA	7.4	ACALA 1517-95	4.10	ACALA PREMA	7.5
DPL NuCotn 35	7.3	DPL NuCotn 35	3.97	ACALA MAXXA	7.3
STV LA 887	6.7	ACALA B 8073	3.88	ACALA 1517-95	7.3
ACALA 1517-95	6.2	ACALA PREMA	3.85	ACALA 1517-95	6.4

STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
ACALA PREMA	243	ACALA 1517-95	0.61	ACALA 1517-95	1.23

ACALA 1517-95	238	ACALA B 8073	0.60	ACALA B 8073	1.22
ACALA B 8073	235	ACALA PREMA	0.58	ACALA PREMA	1.17
ACALA 1517-95	226	ACALA MAXXA	0.57	ACALA MAXXA	1.16
ACALA MAXXA	224	DPL NuCotn 35	0.56	DPL NuCotn 35	1.16
PAYMASTER HS 26	214	STV LA 887	0.56	STV LA 887	1.13
DPL NuCotn 35	211	PAYMASTER PM 1560 BG	0.55	SG 125	1.13
STV LA 887	208	SG 125	0.55	PAYMASTER PM 1560 BG	1.12
SG 125	186	PAYMASTER HS 26	0.54	ACALA 1517-95	1.11
PAYMASTER PM 1560 BG	184	ACALA 1517-95	0.53	PAYMASTER HS 26	1.10

 YARN TENACITY

 AREALOMETER - A (mm²/mm³)

 AREALOMETER - D (mm²/mm³)

ACALA PREMA	147	ACALA MAXXA	465	SG 125	24.7
ACALA B 8073	144	SG 125	460	PAYMASTER HS 26	21.8
ACALA MAXXA	141	STV LA 887	450	STV LA 887	20.3
ACALA 1517-95	140	PAYMASTER HS 26	444	ACALA MAXXA	16.8
ACALA 1517-95	139	ACALA PREMA	.	ACALA PREMA	.
DPL NuCotn 35	132	ACALA B 8073	.	ACALA B 8073	.
PAYMASTER HS 26	120	ACALA 1517-95	.	ACALA 1517-95	.
STV LA 887	118	ACALA 1517-95	.	ACALA 1517-95	.
PAYMASTER PM 1560 BG	112	DPL NuCotn 35	.	DPL NuCotn 35	.
SG 125	110	PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.

 AREALOMETER - I

 AREALOMETER - M (PERCENT)

 AREALOMETER - p (Microns)

SG 125	1.64	ACALA MAXXA	94	PAYMASTER HS 26	44.93
PAYMASTER HS 26	1.58	STV LA 887	91	SG 125	44.79
STV LA 887	1.55	PAYMASTER HS 26	90	STV LA 887	43.18
ACALA MAXXA	1.47	SG 125	88	ACALA MAXXA	39.80
ACALA PREMA	.	ACALA PREMA	.	ACALA PREMA	.
ACALA B 8073	.	ACALA B 8073	.	ACALA B 8073	.
ACALA 1517-95	.	ACALA 1517-95	.	ACALA 1517-95	.

ACALA 1517-95	.	ACALA 1517-95	.	ACALA 1517-95	.
DPL NuCotn 35	.	DPL NuCotn 35	.	DPL NuCotn 35	.
PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.	PAYMASTER PM 1560 BG	.

AREALOMETER - w (MG/INCH)

PAYMASTER HS 26	3.94
SG 125	3.79
STV LA 887	3.71
ACALA MAXXA	3.35
ACALA PREMA	.
ACALA B 8073	.
ACALA 1517-95	.
ACALA 1517-95	.
DPL NuCotn 35	.
PAYMASTER PM 1560 BG	.

AREALOMETER - t (MICRONS)

PAYMASTER HS 26	2.9
STV LA 887	2.8
ACALA MAXXA	2.8
SG 125	2.7
ACALA PREMA	.
ACALA B 8073	.
ACALA 1517-95	.
ACALA 1517-95	.
DPL NuCotn 35	.
PAYMASTER PM 1560 BG	.

SEED YIELD (LB/ACRE)

ACALA 1517-95	1463
DPL NuCotn 35	1415
PAYMASTER PM 1560 BG	1380
PAYMASTER HS 26	1373
ACALA B 8073	1371
SG 125	1341
ACALA 1517-95	1219
ACALA MAXXA	1183
STV LA 887	1127
ACALA PREMA	1073

OIL (PERCENT)

ACALA 1517-95	23.02
ACALA B 8073	22.34
ACALA PREMA	21.73
DPL NuCotn 35	21.29
ACALA MAXXA	21.19
PAYMASTER PM 1560 BG	21.04
STV LA 887	20.54
ACALA 1517-95	20.46
PAYMASTER HS 26	20.19
SG 125	19.54

NITROGEN (PERCENT)

ACALA MAXXA	3.58
ACALA 1517-95	3.34
PAYMASTER PM 1560 BG	3.33
ACALA B 8073	3.33
ACALA PREMA	3.28
PAYMASTER HS 26	3.22
SG 125	3.19
DPL NuCotn 35	3.18
STV LA 887	3.16
ACALA 1517-95	3.11

FREE GOSSYPOL (PERCENT)

PAYMASTER PM 1560 BG	0.79
ACALA B 8073	0.77
ACALA 1517-95	0.77
ACALA 1517-95	0.76
STV LA 887	0.76
SG 125	0.74
PAYMASTER HS 26	0.73
DPL NuCotn 35	0.65
ACALA PREMA	0.60
ACALA MAXXA	0.58

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)			(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
UNIVERSITY PARK, NM	1396	6.07	.	11.0	130	1.18	0.59	214	7.9
ARTESIA, NM (IRR)	940	5.28	39.7	11.0	132	1.20	0.59	220	9.0
PECOS, TX (IRR)	652	4.32	36.2	9.9	126	1.07	0.52	212	7.1

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

LOCATION	MICRONAIRE (Reading)	2.5%	UNIFO-	STRE-	E	COLORIMETER		SEED	OIL	
		S.L.	MITY	NGTH		HUNTER'S	MICRONAIRE			YIELD
	(in.)	(%)	(%)	(g/tex)	Rd	b	(Reading)	(lb/ac)	(%)	
UNIVERSITY PARK, NM	4.49	.	.	.	.	.	.	.	22.33	
ARTESIA, NM (IRR)	3.88	1.19	85.1	28.6	10.1	77.8	9.1	3.88	1432	20.89
PECOS, TX (IRR)	4.27	1.06	81.3	29.7	9.5	76.2	6.4	4.23	1146	20.13

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

LOCATION	FREE		A	D	I	M	p	w	t
	NITROGEN	GOSSYPOL							
	(%)	(%)	---(mm ² /mm ³)---			(%)	(microns)	(mg/in)	(microns)
UNIVERSITY PARK, NM	3.34	0.78	440	22.2	1.59	90	45.36	3.99	2.9
ARTESIA, NM (IRR)	3.44	0.70	487	26.1	1.68	86	43.23	3.45	2.5
PECOS, TX (IRR)	3.07	0.65	442	15.8	1.45	95	41.23	3.63	3.0

756	ACALA PREMA	4.25	.	.	.	.	.	.	.	23.49
874	ACALA 1517-95	4.35	.	.	.	.	.	.	.	23.48
578	PAYMASTER HS 26	5.05	.	.	.	.	.	.	.	22.48
.	LSD	0.41	.	.	.	.	.	.	.	2.34

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A --- (mm2/mm3) ---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
953	SG 125	3.15	0.84	438	24.3	1.64	88	47.03	4.16	2.9
1097	PAYMASTER PM 1560 BG	3.45	0.80	.	.	.	.	.	.	.
1098	ACALA B 8073	3.27	0.86	.	.	.	.	.	.	.
773	ACALA MAXXA	3.69	0.72	439	17.0	1.48	94	42.32	3.73	3.0
1099	DPL NuCotn 35	3.18	0.81	.	.	.	.	.	.	.
893	STV LA 887	3.35	0.72	469	27.5	1.71	86	45.67	3.76	2.6
756	ACALA PREMA	3.36	0.56	.	.	.	.	.	.	.
874	ACALA 1517-95	3.28	0.82	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.33	0.89	414	20.0	1.54	92	46.44	4.32	3.1
.	LSD	0.29	0.17	.	.	0.87	.	.	.	.

 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 (%)
1098	ACALA B 8073	768	4.45	36.8	10.0	140	1.14	0.54	233	6.8
953	SG 125	764	3.80	36.8	9.2	107	1.03	0.50	184	7.2

1097	PAYMASTER PM 1560 BG	713	3.75	37.7	9.5	107	1.05	0.50	180	7.7
773	ACALA MAXXA	681	4.70	37.6	10.5	137	1.10	0.52	210	6.7
1012	ACALA 1517-95	669	4.60	35.4	11.6	140	1.11	0.53	226	6.4
1099	DPL NuCotn 35	602	3.75	36.0	8.3	114	1.05	0.50	197	6.9
578	PAYMASTER HS 26	591	4.65	33.1	9.8	118	1.02	0.51	215	8.2
893	STV LA 887	540	4.45	37.1	10.3	114	1.07	0.52	192	7.7
756	ACALA PREMA	539	4.70	35.8	10.3	156	1.09	0.54	270	6.7
.	LSD	290	1.01	.	.	10	0.02	0.02	.	0.6

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	ELONGATION E	COLORIMETER HUNTER'S		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							Rd	b			
1098	ACALA B 8073	4.00	1.15	82.8	32.0	9.5	75.5	6.1	4.00	1324	21.48
953	SG 125	4.50	1.00	81.0	26.0	10.0	76.5	7.7	4.50	1310	18.66
1097	PAYMASTER PM 1560 BG	4.45	1.00	80.9	26.0	9.4	72.5	6.5	4.45	1179	20.08
773	ACALA MAXXA	4.35	1.10	81.4	31.0	9.2	76.0	6.8	3.85	1125	19.16
1012	ACALA 1517-95	4.10	1.10	81.6	32.5	9.4	76.5	6.2	4.15	1219	20.46
1099	DPL NuCotn 35	4.00	1.05	80.4	27.0	8.6	79.0	5.4	3.95	1062	20.02
578	PAYMASTER HS 26	4.65	1.00	81.3	29.0	10.0	77.5	7.4	4.70	1217	19.86
893	STV LA 887	4.65	1.00	80.9	29.5	10.0	75.0	4.3	4.80	916	19.47
756	ACALA PREMA	3.75	1.10	81.9	34.0	9.6	77.0	7.2	3.70	967	22.03
.	LSD	0.61	.	.	.	.	3.8	4.5	.	530	1.28

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A (mm2/mm3)	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1098	ACALA B 8073	3.25	0.74	.	.	.	.	.	.	.
953	SG 125	2.99	0.72	454	19.8	1.55	92	42.80	3.65	2.8
1097	PAYMASTER PM 1560 BG	2.95	0.83	.	.	.	.	.	.	.
773	ACALA MAXXA	3.35	0.34	454	10.3	1.31	100	36.67	3.20	3.0

1012	ACALA 1517-95	3.11	0.77	.	.	.	.	.	.	.	.
1099	DPL NuCotn 35	2.91	0.65	.	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.06	0.56	431	21.3	1.58	90	46.10	4.14	2.9	
893	STV LA 887	2.92	0.73	431	11.8	1.35	99	39.37	3.54	3.1	
756	ACALA PREMA	3.10	0.55	.	.	.	.	.	.	.	.
.	LSD	0.25	0.26	.	.	0.09	.	.	.	.	.

LOCATION=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 (%)
1099	DPL NuCotn 35	1100	4.64	38.4	9.1	152	1.22	0.61	231	8.5
1097	PAYMASTER PM 1560 BG	1054	4.74	40.1	11.8	118	1.15	0.55	181	11.5
578	PAYMASTER HS 26	950	5.57	38.3	11.2	126	1.19	0.56	220	9.0
893	STV LA 887	947	5.93	41.5	11.0	117	1.14	0.58	219	9.0
773	ACALA MAXXA	938	5.57	43.1	11.6	141	1.20	0.59	235	8.0
953	SG 125	931	4.77	40.4	9.6	117	1.20	0.57	200	10.5
1098	ACALA B 8073	920	4.99	39.4	11.1	145	1.27	0.64	247	8.0
874	ACALA 1517-95	880	5.31	37.6	12.0	143	1.24	0.63	236	7.3
756	ACALA PREMA	740	6.01	38.7	11.8	131	1.23	0.59	213	9.2
.	LSD	182	0.69	.	.	8	0.02	0.04	.	1.5

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

VARIETY CODE	VARIETY NAME	2.5% MICRONAIRE (Reading)	UNIFO- MITY (%)	STRE- NGTH (g/tex)	SEED YIELD (lb/ac)	OIL (%)	COLORIMETER HUNTER'S MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)		
1099	DPL NuCotn 35	3.75	1.20	86.0	30.5	10.0	77.0	9.2	3.80	1768	22.00

1097	PAYMASTER PM 1560 BG	3.75	1.10	82.5	26.0	10.5	79.5	8.9	3.90	1582	20.91
578	PAYMASTER HS 26	3.80	1.20	85.1	28.0	10.0	76.0	9.9	3.95	1530	18.25
893	STV LA 887	4.55	1.10	84.0	28.5	10.5	78.0	9.1	4.50	1337	22.02
773	ACALA MAXXA	3.95	1.20	84.9	30.0	9.9	78.0	8.1	3.85	1241	21.96
953	SG 125	3.90	1.20	84.3	26.0	10.0	77.5	9.6	3.80	1373	18.19
1098	ACALA B 8073	3.80	1.30	87.5	29.5	10.0	76.5	9.0	3.80	1417	22.47
874	ACALA 1517-95	3.90	1.20	86.8	30.5	10.0	77.5	9.4	3.85	1463	22.55
756	ACALA PREMA	3.55	1.20	84.8	28.0	9.9	80.0	8.5	3.50	1178	19.68
.	LSD	0.58	.	.	.	.	2.7	0.9	.	294	1.56

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

VARIETY CODE	VARIETY NAME	FREE		A ---(mm2/mm3)---	D	M I	p (%)	p (microns)	w (mg/in)	t (microns)
		NITROGEN (%)	GOSSYPOL (%)							
1099	DPL NuCotn 35	3.47	0.48	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.60	0.76	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.28	0.74	488	24.3	1.64	88	42.26	3.36	2.6
893	STV LA 887	3.21	0.83	449	21.8	1.59	90	44.52	3.85	2.8
773	ACALA MAXXA	3.71	0.69	502	23.3	1.62	89	40.42	3.12	2.5
953	SG 125	3.44	0.69	508	35.3	1.86	80	45.72	3.48	2.4
1098	ACALA B 8073	3.48	0.73
874	ACALA 1517-95	3.40	0.70
756	ACALA PREMA	3.38	0.69
.	LSD	0.26	0.07	.	.	0.58

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 Questions or comments to: ekeene@ag.gov

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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		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	MICRONAIRE b (Reading)			
578	PAYMASTER HS 26	4.53	1.10	82.2	32.3	10.0	72.3	7.2	4.55	1791	.
773	ACALA MAXXA	4.25	1.20	83.4	34.3	9.7	73.5	5.7	4.23	1659	.
1088	OA 207	4.33	1.20	83.3	35.3	9.9	72.0	7.3	4.45	1540	.
953	SG 125	4.75	1.18	83.0	27.5	9.9	72.5	7.6	4.78	1296	.
1082	BR 9605	4.50	1.20	83.4	35.0	9.8	72.8	7.0	4.38	1361	.
893	STV LA 887	4.43	1.18	82.7	32.0	10.0	71.8	7.8	4.43	1555	.
1084	C 165	4.40	1.20	83.8	35.8	9.6	71.3	7.0	4.33	1264	.
1085	C 166	4.30	1.15	83.6	34.5	9.9	72.3	7.3	4.28	1256	.
.	LSD	.	.	.	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	GOSSYPOL (%)	A		D	I	M (%)	p (microns)	w (mg/in)	t (microns)
				---	(mm2/mm3)---						
578	PAYMASTER HS 26	.	.	439	22.1	1.60	89	45.69	4.03	2.9	
773	ACALA MAXXA	.	.	471	17.1	1.49	94	39.55	3.25	2.7	
1088	OA 207	.	.	.	.	.	.	.	.	.
953	SG 125	.	.	427	22.6	1.61	89	47.28	4.28	2.9	
1082	BR 9605	.	.	.	.	.	.	.	.	.
893	STV LA 887	.	.	453	20.6	1.56	91	43.16	3.69	2.8	
1084	C 165	.	.	.	.	.	.	.	.	.
1085	C 166	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.

BOLL SIZE, GRAM PER BOLL

LINT PERCENT

SEED INDEX

OA 207	7.44	SG 125	41.6	OA 207	13.4
C 166	6.78	ACALA MAXXA	41.3	BR 9605	13.1
ACALA MAXXA	6.67	C 165	41.0	SG 125	12.7
STV LA 887	6.54	BR 9605	40.5	C 165	12.6
BR 9605	6.51	PAYMASTER HS 26	39.9	C 166	12.5
C 165	6.50	OA 207	39.6	ACALA MAXXA	12.2
PAYMASTER HS 26	6.10	C 166	39.3	STV LA 887	11.8
SG 125	5.98	STV LA 887	36.7	PAYMASTER HS 26	11.1

 2.5% S.L. (INCHES)

OA 207	1.20
BR 9605	1.20
C 165	1.20
ACALA MAXXA	1.20
SG 125	1.18
STV LA 887	1.18
C 166	1.15
PAYMASTER HS 26	1.10

 UR (PERCENT)

C 165	83.8
C 166	83.6
BR 9605	83.4
ACALA MAXXA	83.4
OA 207	83.3
SG 125	83.0
STV LA 887	82.7
PAYMASTER HS 26	82.2

 STRENGTH (G/TEX)

C 165	35.8
OA 207	35.3
BR 9605	35.0
C 166	34.5
ACALA MAXXA	34.3
PAYMASTER HS 26	32.3
STV LA 887	32.0
SG 125	27.5

 E

PAYMASTER HS 26	10.0
STV LA 887	10.0
C 166	9.9
SG 125	9.9
OA 207	9.9
BR 9605	9.8
ACALA MAXXA	9.7
C 165	9.6

 MICRONAIRE (SL-HVI)

SG 125	4.78
PAYMASTER HS 26	4.55
OA 207	4.45
STV LA 887	4.43
BR 9605	4.38
C 165	4.33
C 166	4.28
ACALA MAXXA	4.23

 COLORIMETER - Rd

ACALA MAXXA	73.5
BR 9605	72.8
SG 125	72.5
PAYMASTER HS 26	72.3
C 166	72.3
OA 207	72.0
STV LA 887	71.8
C 165	71.3

 COLORIMETER - b

STV LA 887	7.8
SG 125	7.6
C 166	7.3
OA 207	7.3
PAYMASTER HS 26	7.2
BR 9605	7.0
C 165	7.0
ACALA MAXXA	5.7

 MICRONAIRE

SG 125	4.75
PAYMASTER HS 26	4.53
BR 9605	4.50
STV LA 887	4.43
C 165	4.40
OA 207	4.33
C 166	4.30
ACALA MAXXA	4.25

 STELOMETER - E1

SG 125	10.2
PAYMASTER HS 26	8.9
STV LA 887	7.8
C 166	7.8
ACALA MAXXA	7.0
BR 9605	6.5
C 165	6.4
OA 207	5.9

 STELOMETER - T1

C 165	255
ACALA MAXXA	248
OA 207	243
BR 9605	240
C 166	234
PAYMASTER HS 26	216
STV LA 887	215
SG 125	183

 FIBROGRAPH--50% S.L.

OA 207	0.61
C 166	0.60
C 165	0.60
BR 9605	0.58
ACALA MAXXA	0.57
STV LA 887	0.57
SG 125	0.56
PAYMASTER HS 26	0.56

 FIBROGRAPH--2.5% S.L.

OA 207	1.24
C 165	1.21
BR 9605	1.18
ACALA MAXXA	1.18
C 166	1.18
STV LA 887	1.17
SG 125	1.16
PAYMASTER HS 26	1.11

 YARN TENACITY

C 165	160
OA 207	153
BR 9605	147
ACALA MAXXA	145

 AREALOMETER - A (mm²/mm³)

ACALA MAXXA	471
STV LA 887	453
PAYMASTER HS 26	439
SG 125	427

 AREALOMETER - D (mm²/mm³)

SG 125	22.6
PAYMASTER HS 26	22.1
STV LA 887	20.6
ACALA MAXXA	17.1

C 166	140
PAYMASTER HS 26	127
STV LA 887	126
SG 125	108

C 165	.
OA 207	.
BR 9605	.
C 166	.

C 165	.
OA 207	.
BR 9605	.
C 166	.

AREALOMETER - I

AREALOMETER - M (PERCENT)

AREALOMETER - p (Microns)

SG 125	1.61
PAYMASTER HS 26	1.60
STV LA 887	1.56
ACALA MAXXA	1.49
C 165	.
OA 207	.
BR 9605	.
C 166	.

ACALA MAXXA	94
STV LA 887	91
PAYMASTER HS 26	89
SG 125	89
C 165	.
OA 207	.
BR 9605	.
C 166	.

SG 125	47.28
PAYMASTER HS 26	45.69
STV LA 887	43.16
ACALA MAXXA	39.55
C 165	.
OA 207	.
BR 9605	.
C 166	.

AREALOMETER - w (MG/INCH)

AREALOMETER - t (MICRONS)

SEED YIELD (LB/ACRE)

SG 125	4.28
PAYMASTER HS 26	4.03
STV LA 887	3.69
ACALA MAXXA	3.25
C 165	.
OA 207	.
BR 9605	.
C 166	.

SG 125	2.9
PAYMASTER HS 26	2.9
STV LA 887	2.8
ACALA MAXXA	2.7
C 165	.
OA 207	.
BR 9605	.
C 166	.

PAYMASTER HS 26	1791
ACALA MAXXA	1659
STV LA 887	1555
OA 207	1540
BR 9605	1361
SG 125	1296
C 165	1264
C 166	1256

OIL (PERCENT)

NITROGEN (PERCENT)

FREE GOSSYPOL (PERCENT)

PAYMASTER HS 26	.	PAYMASTER HS 26	.	PAYMASTER HS 26	.
ACALA MAXXA	.	ACALA MAXXA	.	ACALA MAXXA	.
STV LA 887	.	STV LA 887	.	STV LA 887	.
OA 207	.	OA 207	.	OA 207	.
BR 9605	.	BR 9605	.	BR 9605	.
SG 125	.	SG 125	.	SG 125	.
C 165	.	C 165	.	C 165	.
C 166	.	C 166	.	C 166	.

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
W SIDE FIELD STATION, CA	1088	6.63	40.4	12.0	137	1.17	0.57	223	7.4
SHAFTER, CA	893	6.50	39.6	12.8	140	1.18	0.58	236	7.7

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

LOCATION	MICRONAIRE	2.5% S.L.	UNIFO-	STRE-	E	COLORIMETER		SEED	OIL	
						HUNTER'S	MICRONAIRE			YIELD
	(Reading)	(in.)	(%)	(g/tex)		Rd	b	(Reading)	(lb/ac)	(%)
W SIDE FIELD STATION, CA	4.38	1.18	82.9	32.9	9.8	72.5	7.4	4.38	1654	.
SHAFTER, CA	4.49	1.18	83.5	33.8	9.9	72.1	6.8	4.47	1277	.

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

LOCATION	FREE		A --- (mm2/mm3) ---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
	NITROGEN (%)	GOSSYPOL (%)							
W SIDE FIELD STATION, CA	.	.	453	20.8	1.57	91	43.53	3.74	2.8
SHAFTER, CA	.	.	442	20.4	1.56	91	44.31	3.89	2.9

VARIETIES BY LOCATIONS

SHAFTER, CA

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)			TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
578	PAYMASTER HS 26	1152	6.00	39.1	11.5	128	1.11	0.56	224	9.2
773	ACALA MAXXA	1135	6.92	41.8	12.8	144	1.17	0.57	247	7.4
1088	OA 207	888	6.81	39.0	14.1	153	1.25	0.62	242	6.0
1085	C 166	827	6.44	39.9	13.1	160	1.25	0.64	261	6.8
953	SG 125	817	6.18	41.7	12.3	105	1.17	0.56	189	11.0
1082	BR 9605	788	6.63	39.8	13.3	144	1.17	0.57	243	6.8
893	STV LA 887	777	6.47	35.6	12.4	126	1.16	0.57	221	8.2
1084	C 165	764	6.57	40.1	13.1	158	1.19	0.60	257	6.8
.	LSD	114	1.32	.	.	9	0.05	0.03	.	1.3

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5%	UNIFO-	STRE-	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
			S.L. (in.)	MITY (%)	NGTH (g/tex)		HUNTER'S Rd	b (Reading)			
578	PAYMASTER HS 26	4.45	1.10	82.1	32.0	10.0	71.5	7.2	4.55	1583	.
773	ACALA MAXXA	4.40	1.20	83.4	34.0	9.8	74.0	3.9	4.35	1488	.
1088	OA 207	4.45	1.20	83.9	35.5	10.0	71.0	7.0	4.55	1270	.

1085	C 166	4.10	1.20	85.4	38.5	9.9	72.5	7.2	4.10	1130	.
953	SG 125	4.70	1.15	83.1	27.0	9.9	72.5	7.5	4.75	1002	.
1082	BR 9605	4.70	1.20	83.5	35.5	9.9	72.5	6.9	4.45	1161	.
893	STV LA 887	4.60	1.15	82.7	32.0	10.0	71.0	7.9	4.55	1412	.
1084	C 165	4.55	1.20	83.9	35.5	9.5	71.5	6.9	4.45	1168	.
.	LSD	0.27	.	.	.	.	3.3	3.8	.	238	.

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	FREE GOSSYPOL (%)	A		D	I	M (%)	p (microns)	w (mg/in)	t (microns)
				---(mm2/mm3)---							
578	PAYMASTER HS 26	.	.	439	21.8	1.59	90	45.50	4.01	2.9	
773	ACALA MAXXA	.	.	460	16.5	1.47	94	40.00	3.36	2.8	
1088	OA 207	.	.	.	.	.	.	.	.	.
1085	C 166	.	.	.	.	.	.	.	.	.
953	SG 125	.	.	429	25.5	1.67	87	48.97	4.43	2.9	
1082	BR 9605	.	.	.	.	.	.	.	.	.
893	STV LA 887	.	.	439	18.0	1.50	93	42.77	3.76	3.0	
1084	C 165	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	0.43	.	.	.	.

VARIETIES BY LOCATIONS

W SIDE FIELD STATION, CA

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
578	PAYMASTER HS 26	1326	6.21	40.7	10.7	125	1.11	0.55	208	8.7
773	ACALA MAXXA	1229	6.43	40.8	11.7	146	1.19	0.58	249	6.5
1088	OA 207	1116	8.07	40.2	12.7	152	1.23	0.60	244	5.8

953	SG 125	1084	5.78	41.6	13.0	112	1.15	0.56	176	9.4
893	STV LA 887	1071	6.61	37.8	11.2	126	1.17	0.56	209	7.5
1082	BR 9605	1067	6.39	41.3	12.8	151	1.19	0.59	237	6.3
1084	C 165	945	6.43	42.0	12.1	163	1.22	0.60	254	6.0
1085	C 166	865	7.12	38.7	11.9	121	1.11	0.56	206	8.8
.	LSD	137	1.76	.	.	6	0.01	0.02	.	1.1

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFORMITY (%)	STRENGTH (g/tex)	E	COLORIMETER HUNTER'S		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							Rd	b			
578	PAYMASTER HS 26	4.60	1.10	82.2	32.5	10.0	73.0	7.3	4.55	2000	.
773	ACALA MAXXA	4.10	1.20	83.4	34.5	9.6	73.0	7.5	4.10	1830	.
1088	OA 207	4.20	1.20	82.8	35.0	9.8	73.0	7.5	4.35	1810	.
953	SG 125	4.80	1.20	82.9	28.0	9.9	72.5	7.7	4.80	1591	.
893	STV LA 887	4.25	1.20	82.7	32.0	10.0	72.5	7.7	4.30	1698	.
1082	BR 9605	4.30	1.20	83.4	34.5	9.6	73.0	7.2	4.30	1560	.
1084	C 165	4.25	1.20	83.8	36.0	9.6	71.0	7.0	4.20	1359	.
1085	C 166	4.50	1.10	81.8	30.5	10.0	72.0	7.4	4.45	1382	.
.	LSD	0.26	.	.	.	.	2.0	0.3	.	283	.

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A --- (mm2/mm3) ---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
578	PAYMASTER HS 26	.	.	438	22.5	1.60	89	45.88	4.05	2.9
773	ACALA MAXXA	.	.	481	17.8	1.50	94	39.09	3.15	2.7
1088	OA 207	.	.	.	.	.	.	.	.	.
953	SG 125	.	.	426	19.8	1.55	92	45.58	4.14	3.0
893	STV LA 887	.	.	466	23.3	1.62	89	43.55	3.61	2.7
1082	BR 9605
1084	C 165
1085	C 166
.	LSD	0.48

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National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data

1998 HIGH QUALITY REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS

HIGH QUALITY REGION

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1120	JBW-2	956	4.65	39.9	9.3	127	1.14	0.57	207	7.1
953	SG 125	925	4.96	41.0	9.9	117	1.13	0.57	188	8.2
1122	JACO 6123	875	5.01	40.0	9.6	127	1.14	0.58	209	8.7
1121	JACO 6078	856	5.19	41.3	9.7	130	1.16	0.58	207	7.6
1127	PM 9506-0478	855	5.08	41.3	10.1	138	1.18	0.59	233	8.9
893	STV LA 887	813	5.61	40.3	10.8	137	1.15	0.57	216	7.9

1998 National Cotton Variety Test

1125	PD 94045	804	4.99	40.0	10.0	135	1.17	0.58	214	6.5
1115	AP 6101	799	4.47	38.9	9.1	132	1.17	0.58	220	7.7
1126	PM 9506-0276	778	4.85	39.8	10.0	132	1.21	0.60	225	8.6
1123	KNH 390X366-7	769	4.80	38.1	9.6	133	1.13	0.56	217	6.6
1063	Arkot 8712	759	5.14	38.5	10.3	134	1.17	0.59	221	7.6
1117	FIBERMAX 832	756	5.60	38.2	11.0	153	1.21	0.60	235	6.7
1116	AP 6102	755	4.49	37.8	8.9	136	1.18	0.59	223	7.8
1103	FIBERMAX 989	745	5.02	39.5	10.2	150	1.16	0.58	229	6.4
1064	94 L-25	724	5.77	37.3	12.3	137	1.21	0.57	222	5.9
1118	GA 93-317	685	4.84	38.7	9.7	140	1.13	0.58	229	7.3
1119	GA 95-155	666	4.98	37.3	10.9	140	1.13	0.57	218	6.6
1124	PD 5582 SEL	663	4.86	38.1	9.8	133	1.16	0.58	220	6.9
1114	94 LD-17	652	5.19	36.2	11.7	124	1.11	0.57	199	6.6
773	ACALA MAXXA	467	4.91	40.3	11.5	150	1.14	0.57	237	7.0
.	LSD	137	0.32	0.8	0.6	4	0.02	0.01	10	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)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	MICRONAIRE b (Reading)			
1120	JBW-2	4.74	1.10	83.6	30.0	9.7	72.4	7.1	4.84	1228	18.00
953	SG 125	4.71	1.09	84.0	26.4	10.1	70.6	7.9	4.78	1317	17.79
1122	JACO 6123	4.51	1.11	83.6	28.4	9.9	71.9	8.0	4.64	1277	19.33
1121	JACO 6078	4.41	1.12	83.6	28.9	9.5	71.0	8.2	4.44	1168	18.22
1127	PM 9506-0478	4.66	1.16	84.8	31.3	10.1	71.5	7.6	4.80	1200	18.93
893	STV LA 887	4.69	1.11	84.1	30.1	9.9	71.1	8.5	4.73	1190	18.74
1125	PD 94045	4.46	1.16	83.9	29.1	9.3	71.1	7.3	4.55	1155	16.99
1115	AP 6101	4.66	1.11	83.6	30.5	10.0	72.2	7.0	4.71	1227	17.06
1126	PM 9506-0276	4.49	1.19	85.2	29.7	10.1	72.9	7.2	4.50	1228	17.22
1123	KNH 390X366-7	4.57	1.09	83.2	31.1	9.6	72.5	7.4	4.70	1323	19.32
1063	Arkot 8712	4.66	1.15	84.6	29.7	10.0	70.0	7.5	4.81	1178	18.20
1117	FIBERMAX 832	4.26	1.19	85.0	31.4	9.4	71.8	6.8	4.17	1186	19.03
1116	AP 6102	4.58	1.16	84.7	31.4	10.1	73.3	7.2	4.67	1181	16.89
1103	FIBERMAX 989	4.38	1.13	83.8	31.7	9.4	72.1	7.5	4.38	1115	19.83
1064	94 L-25	4.34	1.20	84.0	30.7	8.9	69.0	8.0	4.38	1115	18.04
1118	GA 93-317	4.47	1.10	83.6	32.8	10.0	69.6	7.9	4.56	1054	18.86

1119	GA 95-155	4.57	1.10	83.3	32.1	9.6	69.8	7.3	4.59	1142	19.00
1124	PD 5582 SEL	4.54	1.14	84.5	31.0	9.8	69.1	7.9	4.56	1132	18.10
1114	94 LD-17	4.81	1.08	83.6	28.8	9.8	69.7	7.8	4.96	1105	20.59
773	ACALA MAXXA	3.99	1.12	83.8	33.1	9.5	70.1	7.4	3.94	681	18.24
.	LSD	0.23	0.03	0.7	1.2	0.2	1.6	0.6	0.25	182	0.75

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A		D	M	p	w	t
				---	---					
				---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)
1120	JBW-2	3.28	0.60	428	21.7	1.57	90	45.94	4.16	3.0
953	SG 125	3.64	0.57	429	24.5	1.64	88	48.09	4.35	2.9
1122	JACO 6123	3.46	0.67	441	23.5	1.62	88	46.17	4.06	2.8
1121	JACO 6078	3.52	0.69	451	22.3	1.59	90	44.15	3.82	2.8
1127	PM 9506-0478	3.44	0.65	434	19.3	1.52	93	43.76	3.91	3.0
893	STV LA 887	3.46	0.69	441	22.1	1.59	90	45.37	4.00	2.9
1125	PD 94045	3.69	0.55	451	17.0	1.48	94	41.12	3.53	2.9
1115	AP 6101	3.33	0.58	435	22.6	1.60	89	46.13	4.12	2.9
1126	PM 9506-0276	3.45	0.63	450	22.1	1.58	90	44.07	3.79	2.8
1123	KNH 390X366-7	3.43	0.66	429	18.3	1.50	93	43.70	3.94	3.0
1063	Arkot 8712	3.36	0.52	427	19.3	1.52	92	44.64	4.05	3.0
1117	FIBERMAX 832	3.46	0.48	467	18.0	1.49	93	40.23	3.34	2.8
1116	AP 6102	3.32	0.52	436	18.1	1.50	93	43.17	3.84	3.0
1103	FIBERMAX 989	3.38	0.53	448	18.2	1.50	93	41.89	3.62	2.9
1064	94 L-25	3.70	0.51	459	22.4	1.60	89	43.77	3.70	2.8
1118	GA 93-317	3.43	0.58	444	21.5	1.58	90	44.45	3.87	2.9
1119	GA 95-155	3.52	0.54	441	21.0	1.56	91	44.59	3.93	2.9
1124	PD 5582 SEL	3.45	0.44	447	21.3	1.57	90	44.18	3.84	2.8
1114	94 LD-17	3.79	0.44	422	21.3	1.57	90	46.65	4.28	3.0
773	ACALA MAXXA	3.83	0.47	500	27.4	1.70	86	42.77	3.33	2.5
.	LSD	0.13	0.09	20.8	5.0	0.11	4	2.46	0.28	0.2

BOLL SIZE, GRAM PER BOLL		LINT PERCENT		SEED INDEX	
94 L-25	5.77	PM 9506-0478	41.3	94 L-25	12.3
STV LA 887	5.61	JACO 6078	41.3	94 LD-17	11.7
FIBERMAX 832	5.60	SG 125	41.0	ACALA MAXXA	11.5
94 LD-17	5.19	ACALA MAXXA	40.3	FIBERMAX 832	11.0
JACO 6078	5.19	STV LA 887	40.3	GA 95-155	10.9
Arkot 8712	5.14	JACO 6123	40.0	STV LA 887	10.8
PM 9506-0478	5.08	PD 94045	40.0	Arkot 8712	10.3
FIBERMAX 989	5.02	JBW-2	39.9	FIBERMAX 989	10.2
JACO 6123	5.01	PM 9506-0276	39.8	PM 9506-0478	10.1
PD 94045	4.99	FIBERMAX 989	39.5	PM 9506-0276	10.0
GA 95-155	4.98	AP 6101	38.9	PD 94045	10.0
SG 125	4.96	GA 93-317	38.7	SG 125	9.9
ACALA MAXXA	4.91	Arkot 8712	38.5	PD 5582 SEL	9.8
PD 5582 SEL	4.86	FIBERMAX 832	38.2	JACO 6078	9.7
PM 9506-0276	4.85	KNH 390X366-7	38.1	GA 93-317	9.7
GA 93-317	4.84	PD 5582 SEL	38.1	KNH 390X366-7	9.6
KNH 390X366-7	4.80	AP 6102	37.8	JACO 6123	9.6
JBW-2	4.65	94 L-25	37.3	JBW-2	9.3
AP 6102	4.49	GA 95-155	37.3	AP 6101	9.1
AP 6101	4.47	94 LD-17	36.2	AP 6102	8.9
LSD	0.32	LSD	0.8	LSD	0.6

2.5% S.L. (INCHES)		UR (PERCENT)		STRENGTH (G/TEX)	
94 L-25	1.20	PM 9506-0276	85.2	ACALA MAXXA	33.1
FIBERMAX 832	1.19	FIBERMAX 832	85.0	GA 93-317	32.8
PM 9506-0276	1.19	PM 9506-0478	84.8	GA 95-155	32.1
AP 6102	1.16	AP 6102	84.7	FIBERMAX 989	31.7
PM 9506-0478	1.16	Arkot 8712	84.6	FIBERMAX 832	31.4
PD 94045	1.16	PD 5582 SEL	84.5	AP 6102	31.4
Arkot 8712	1.15	STV LA 887	84.1	PM 9506-0478	31.3

PD 5582 SEL	1.14	94 L-25	84.0	KNH 390X366-7	31.1
FIBERMAX 989	1.13	SG 125	84.0	PD 5582 SEL	31.0
ACALA MAXXA	1.12	PD 94045	83.9	94 L-25	30.7
JACO 6078	1.12	FIBERMAX 989	83.8	AP 6101	30.5
STV LA 887	1.11	ACALA MAXXA	83.8	STV LA 887	30.1
JACO 6123	1.11	JACO 6123	83.6	JBW-2	30.0
AP 6101	1.11	AP 6101	83.6	PM 9506-0276	29.7
GA 95-155	1.10	GA 93-317	83.6	Arkot 8712	29.7
GA 93-317	1.10	JBW-2	83.6	PD 94045	29.1
JBW-2	1.10	94 LD-17	83.6	JACO 6078	28.9
SG 125	1.09	JACO 6078	83.6	94 LD-17	28.8
KNH 390X366-7	1.09	GA 95-155	83.3	JACO 6123	28.4
94 LD-17	1.08	KNH 390X366-7	83.2	SG 125	26.4
LSD	0.03	LSD	0.7	LSD	1.2

E

MICRONAIRE (SL-HVI)

COLORIMETER - Rd

PM 9506-0478	10.1	94 LD-17	4.96	AP 6102	73.3
PM 9506-0276	10.1	JBW-2	4.84	PM 9506-0276	72.9
AP 6102	10.1	Arkot 8712	4.81	KNH 390X366-7	72.5
SG 125	10.1	PM 9506-0478	4.80	JBW-2	72.4
GA 93-317	10.0	SG 125	4.78	AP 6101	72.2
AP 6101	10.0	STV LA 887	4.73	FIBERMAX 989	72.1
Arkot 8712	10.0	AP 6101	4.71	JACO 6123	71.9
STV LA 887	9.9	KNH 390X366-7	4.70	FIBERMAX 832	71.8
JACO 6123	9.9	AP 6102	4.67	PM 9506-0478	71.5
94 LD-17	9.8	JACO 6123	4.64	STV LA 887	71.1
PD 5582 SEL	9.8	GA 95-155	4.59	PD 94045	71.1
JBW-2	9.7	GA 93-317	4.56	JACO 6078	71.0
GA 95-155	9.6	PD 5582 SEL	4.56	SG 125	70.6
KNH 390X366-7	9.6	PD 94045	4.55	ACALA MAXXA	70.1
JACO 6078	9.5	PM 9506-0276	4.50	Arkot 8712	70.0
ACALA MAXXA	9.5	JACO 6078	4.44	GA 95-155	69.8
FIBERMAX 832	9.4	94 L-25	4.38	94 LD-17	69.7
FIBERMAX 989	9.4	FIBERMAX 989	4.38	GA 93-317	69.6
PD 94045	9.3	FIBERMAX 832	4.17	PD 5582 SEL	69.1
94 L-25	8.9	ACALA MAXXA	3.94	94 L-25	69.0

LSD	0.2	LSD	0.25	LSD	1.6
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COLORIMETER - b		MICRONAIRE		STELOMETER - E1	
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STV LA 887	8.5	94 LD-17	4.81	PM 9506-0478	8.9
JACO 6078	8.2	JBW-2	4.74	JACO 6123	8.7
94 L-25	8.0	SG 125	4.71	PM 9506-0276	8.6
JACO 6123	8.0	STV LA 887	4.69	SG 125	8.2
SG 125	7.9	PM 9506-0478	4.66	STV LA 887	7.9
PD 5582 SEL	7.9	Arkot 8712	4.66	AP 6102	7.8
GA 93-317	7.9	AP 6101	4.66	AP 6101	7.7
94 LD-17	7.8	AP 6102	4.58	JACO 6078	7.6
PM 9506-0478	7.6	KNH 390X366-7	4.57	Arkot 8712	7.6
FIBERMAX 989	7.5	GA 95-155	4.57	GA 93-317	7.3
Arkot 8712	7.5	PD 5582 SEL	4.54	JBW-2	7.1
KNH 390X366-7	7.4	JACO 6123	4.51	ACALA MAXXA	7.0
ACALA MAXXA	7.4	PM 9506-0276	4.49	PD 5582 SEL	6.9
PD 94045	7.3	GA 93-317	4.47	FIBERMAX 832	6.7
GA 95-155	7.3	PD 94045	4.46	GA 95-155	6.6
AP 6102	7.2	JACO 6078	4.41	KNH 390X366-7	6.6
PM 9506-0276	7.2	FIBERMAX 989	4.38	94 LD-17	6.6
JBW-2	7.1	94 L-25	4.34	PD 94045	6.5
AP 6101	7.0	FIBERMAX 832	4.26	FIBERMAX 989	6.4
FIBERMAX 832	6.8	ACALA MAXXA	3.99	94 L-25	5.9
LSD	0.6	LSD	0.23	LSD	0.5

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STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.L.	
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ACALA MAXXA	237	PM 9506-0276	0.60	PM 9506-0276	1.21
FIBERMAX 832	235	FIBERMAX 832	0.60	FIBERMAX 832	1.21
PM 9506-0478	233	Arkot 8712	0.59	94 L-25	1.21
GA 93-317	229	PM 9506-0478	0.59	PM 9506-0478	1.18

FIBERMAX 989	229	AP 6102	0.59	AP 6102	1.18
PM 9506-0276	225	PD 5582 SEL	0.58	Arkot 8712	1.17
AP 6102	223	AP 6101	0.58	AP 6101	1.17
94 L-25	222	PD 94045	0.58	PD 94045	1.17
Arkot 8712	221	FIBERMAX 989	0.58	PD 5582 SEL	1.16
PD 5582 SEL	220	GA 93-317	0.58	JACO 6078	1.16
AP 6101	220	JACO 6078	0.58	FIBERMAX 989	1.16
GA 95-155	218	JACO 6123	0.58	STV LA 887	1.15
KNH 390X366-7	217	STV LA 887	0.57	JACO 6123	1.14
STV LA 887	216	SG 125	0.57	JBW-2	1.14
PD 94045	214	ACALA MAXXA	0.57	ACALA MAXXA	1.14
JACO 6123	209	GA 95-155	0.57	SG 125	1.13
JBW-2	207	JBW-2	0.57	GA 93-317	1.13
JACO 6078	207	94 L-25	0.57	GA 95-155	1.13
94 LD-17	199	94 LD-17	0.57	KNH 390X366-7	1.13
SG 125	188	KNH 390X366-7	0.56	94 LD-17	1.11
LSD	10	LSD	0.01	LSD	0.02

 YARN TENACITY

 AREALOMETER - A (mm²/mm³)

 AREALOMETER - D (mm²/mm³)

FIBERMAX 832	153	ACALA MAXXA	500	ACALA MAXXA	27.4
ACALA MAXXA	150	FIBERMAX 832	467	SG 125	24.5
FIBERMAX 989	150	94 L-25	459	JACO 6123	23.5
GA 95-155	140	PD 94045	451	AP 6101	22.6
GA 93-317	140	JACO 6078	451	94 L-25	22.4
PM 9506-0478	138	PM 9506-0276	450	JACO 6078	22.3
94 L-25	137	FIBERMAX 989	448	STV LA 887	22.1
STV LA 887	137	PD 5582 SEL	447	PM 9506-0276	22.1
AP 6102	136	GA 93-317	444	JBW-2	21.7
PD 94045	135	STV LA 887	441	GA 93-317	21.5
Arkot 8712	134	JACO 6123	441	PD 5582 SEL	21.3
KNH 390X366-7	133	GA 95-155	441	94 LD-17	21.3
PD 5582 SEL	133	AP 6102	436	GA 95-155	21.0
PM 9506-0276	132	AP 6101	435	PM 9506-0478	19.3
AP 6101	132	PM 9506-0478	434	Arkot 8712	19.3
JACO 6078	130	SG 125	429	KNH 390X366-7	18.3

JACO 6123	127	KNH 390X366-7	429	FIBERMAX 989	18.2
JBW-2	127	JBW-2	428	AP 6102	18.1
94 LD-17	124	Arkot 8712	427	FIBERMAX 832	18.0
SG 125	117	94 LD-17	422	PD 94045	17.0
LSD	4	LSD	20.8	LSD	5.0

AREALOMETER - I

ACALA MAXXA	1.70
SG 125	1.64
JACO 6123	1.62
94 L-25	1.60
AP 6101	1.60
STV LA 887	1.59
JACO 6078	1.59
PM 9506-0276	1.58
GA 93-317	1.58
PD 5582 SEL	1.57
JBW-2	1.57
94 LD-17	1.57
GA 95-155	1.56
Arkot 8712	1.52
PM 9506-0478	1.52
AP 6102	1.50
FIBERMAX 989	1.50
KNH 390X366-7	1.50
FIBERMAX 832	1.49
PD 94045	1.48
LSD	0.11

AREALOMETER - M (PERCENT)

PD 94045	94
FIBERMAX 989	93
KNH 390X366-7	93
FIBERMAX 832	93
AP 6102	93
PM 9506-0478	93
Arkot 8712	92
GA 95-155	91
GA 93-317	90
JBW-2	90
PD 5582 SEL	90
94 LD-17	90
JACO 6078	90
PM 9506-0276	90
STV LA 887	90
AP 6101	89
94 L-25	89
JACO 6123	88
SG 125	88
ACALA MAXXA	86
LSD	4

AREALOMETER - p (Microns)

SG 125	48.09
94 LD-17	46.65
JACO 6123	46.17
AP 6101	46.13
JBW-2	45.94
STV LA 887	45.37
Arkot 8712	44.64
GA 95-155	44.59
GA 93-317	44.45
PD 5582 SEL	44.18
JACO 6078	44.15
PM 9506-0276	44.07
94 L-25	43.77
PM 9506-0478	43.76
KNH 390X366-7	43.70
AP 6102	43.17
ACALA MAXXA	42.77
FIBERMAX 989	41.89
PD 94045	41.12
FIBERMAX 832	40.23
LSD	2.46

AREALOMETER - w (MG/INCH)

AREALOMETER - t (MICRONS)

SEED YIELD (LB/ACRE)

SG 125	4.35	KNH 390X366-7	3.0	KNH 390X366-7	1323
94 LD-17	4.28	Arkot 8712	3.0	SG 125	1317
JBW-2	4.16	PM 9506-0478	3.0	JACO 6123	1277
AP 6101	4.12	JBW-2	3.0	JBW-2	1228
JACO 6123	4.06	94 LD-17	3.0	PM 9506-0276	1228
Arkot 8712	4.05	AP 6102	3.0	AP 6101	1227
STV LA 887	4.00	AP 6101	2.9	PM 9506-0478	1200
KNH 390X366-7	3.94	FIBERMAX 989	2.9	STV LA 887	1190
GA 95-155	3.93	SG 125	2.9	FIBERMAX 832	1186
PM 9506-0478	3.91	GA 95-155	2.9	AP 6102	1181
GA 93-317	3.87	PD 94045	2.9	Arkot 8712	1178
PD 5582 SEL	3.84	STV LA 887	2.9	JACO 6078	1168
AP 6102	3.84	GA 93-317	2.9	PD 94045	1155
JACO 6078	3.82	PD 5582 SEL	2.8	GA 95-155	1142
PM 9506-0276	3.79	JACO 6078	2.8	PD 5582 SEL	1132
94 L-25	3.70	JACO 6123	2.8	FIBERMAX 989	1115
FIBERMAX 989	3.62	PM 9506-0276	2.8	94 L-25	1115
PD 94045	3.53	FIBERMAX 832	2.8	94 LD-17	1105
FIBERMAX 832	3.34	94 L-25	2.8	GA 93-317	1054
ACALA MAXXA	3.33	ACALA MAXXA	2.5	ACALA MAXXA	681
LSD	0.28	LSD	0.2	LSD	182

OIL (PERCENT)

NITROGEN (PERCENT)

FREE GOSSYPOL (PERCENT)

94 LD-17	20.59	ACALA MAXXA	3.83	STV LA 887	0.69
FIBERMAX 989	19.83	94 LD-17	3.79	JACO 6078	0.69
JACO 6123	19.33	94 L-25	3.70	JACO 6123	0.67
KNH 390X366-7	19.32	PD 94045	3.69	KNH 390X366-7	0.66
FIBERMAX 832	19.03	SG 125	3.64	PM 9506-0478	0.65
GA 95-155	19.00	GA 95-155	3.52	PM 9506-0276	0.63
PM 9506-0478	18.93	JACO 6078	3.52	JBW-2	0.60
GA 93-317	18.86	FIBERMAX 832	3.46	GA 93-317	0.58
STV LA 887	18.74	STV LA 887	3.46	AP 6101	0.58
ACALA MAXXA	18.24	JACO 6123	3.46	SG 125	0.57
JACO 6078	18.22	PD 5582 SEL	3.45	PD 94045	0.55
Arkot 8712	18.20	PM 9506-0276	3.45	GA 95-155	0.54
PD 5582 SEL	18.10	PM 9506-0478	3.44	FIBERMAX 989	0.53

94 L-25	18.04	GA 93-317	3.43	AP 6102	0.52
JBW-2	18.00	KNH 390X366-7	3.43	Arkot 8712	0.52
SG 125	17.79	FIBERMAX 989	3.38	94 L-25	0.51
PM 9506-0276	17.22	Arkot 8712	3.36	FIBERMAX 832	0.48
AP 6101	17.06	AP 6101	3.33	ACALA MAXXA	0.47
PD 94045	16.99	AP 6102	3.32	94 LD-17	0.44
AP 6102	16.89	JBW-2	3.28	PD 5582 SEL	0.44
LSD	0.75	LSD	0.13	LSD	0.09

VARIETIES COMBINING LOCATIONS HIGH QUALITY SUBREGION

INCLUDES LOCATIONS: KEISER, AR; BOSSIER CITY, LA; STONEVILLE, MS; PORTAGEVILLE, MO; COLLEGE STATION, TX

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)	E1 (%)
1120	JBW-2	1096	4.62	39.5	9.0	127	1.15	0.57	207	7.1
953	SG 125	917	5.11	40.4	9.8	119	1.14	0.58	189	8.1
1121	JACO 6078	902	5.37	40.4	9.8	131	1.17	0.59	204	7.4
1122	JACO 6123	895	5.14	39.4	9.6	128	1.16	0.58	203	8.5
1127	PM 9506-0478	852	5.19	40.5	10.0	139	1.19	0.60	230	8.6
1115	AP 6101	806	4.46	38.4	8.6	131	1.18	0.59	216	7.5
1123	KNH 390X366-7	795	4.91	37.5	9.4	135	1.14	0.57	219	6.5
893	STV LA 887	783	5.69	39.2	10.8	138	1.16	0.58	221	8.0
1126	PM 9506-0276	773	4.90	38.2	10.0	134	1.22	0.60	226	8.3
1116	AP 6102	749	4.58	37.2	8.7	137	1.18	0.59	223	7.6
1064	94 L-25	747	5.94	36.4	12.5	141	1.23	0.58	226	5.8
1117	FIBERMAX 832	747	6.00	37.1	11.5	155	1.21	0.60	237	6.5
1063	Arkot 8712	737	5.40	37.8	10.5	135	1.18	0.59	221	7.3
1125	PD 94045	699	5.00	38.4	10.2	140	1.18	0.58	217	6.5
1124	PD 5582 SEL	680	4.96	37.3	9.8	133	1.17	0.58	221	6.7
1103	FIBERMAX 989	642	5.07	38.4	10.2	153	1.16	0.58	231	6.3
1119	GA 95-155	614	4.99	36.3	10.9	142	1.14	0.57	219	6.4
1114	94 LD-17	599	5.43	35.2	11.8	125	1.12	0.57	205	6.4

1118	GA 93-317	597	5.04	37.9	9.9	142	1.15	0.58	227	7.1
773	ACALA MAXXA	408	4.71	39.5	11.2	152	1.14	0.57	234	6.8
.	LSD	137	0.32	0.8	0.6	4	0.02	0.01	10	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)	E	COLORIMETER		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							HUNTER'S Rd	b			
1120	JBW-2	4.87	1.10	83.9	29.8	9.6	71.2	6.9	5.05	1310	18.20
953	SG 125	4.81	1.10	84.3	26.6	9.9	69.3	7.8	4.92	1400	17.81
1121	JACO 6078	4.68	1.13	84.0	28.4	9.5	69.5	8.2	4.74	1327	19.09
1122	JACO 6123	4.65	1.12	84.1	28.1	9.9	70.5	7.8	4.75	1365	19.79
1127	PM 9506-0478	4.85	1.18	85.1	31.4	10.2	70.2	7.7	5.00	1304	19.36
1115	AP 6101	4.77	1.12	84.2	30.5	10.0	72.4	7.0	4.85	1271	17.06
1123	KNH 390X366-7	4.71	1.10	83.3	31.6	9.6	71.3	7.3	4.86	1430	19.66
893	STV LA 887	4.70	1.12	84.4	30.6	10.0	69.9	8.4	4.75	1261	18.92
1126	PM 9506-0276	4.55	1.19	85.6	29.5	10.0	72.0	7.0	4.57	1337	17.33
1116	AP 6102	4.69	1.17	85.1	31.8	10.0	72.2	7.1	4.79	1272	16.94
1064	94 L-25	4.30	1.21	84.5	31.0	8.9	68.4	7.9	4.41	1269	18.48
1117	FIBERMAX 832	4.31	1.20	85.4	31.0	9.3	70.2	6.7	4.26	1245	19.28
1063	Arkot 8712	4.80	1.15	84.7	29.8	10.0	68.2	7.5	4.98	1249	18.25
1125	PD 94045	4.52	1.16	84.3	29.5	9.3	69.6	7.1	4.60	1202	17.15
1124	PD 5582 SEL	4.70	1.15	85.0	31.0	9.7	67.8	8.0	4.72	1181	18.39
1103	FIBERMAX 989	4.42	1.15	84.3	32.0	9.4	70.3	7.5	4.45	1029	19.94
1119	GA 95-155	4.70	1.11	83.8	32.0	9.6	68.0	7.9	4.70	1135	19.29
1114	94 LD-17	4.93	1.09	84.1	29.1	9.8	68.5	7.8	5.11	1162	20.49
1118	GA 93-317	4.59	1.10	84.1	32.1	9.9	68.3	7.8	4.72	1048	18.96
773	ACALA MAXXA	3.95	1.12	83.9	32.8	9.4	67.8	7.2	3.88	620	18.09
.	LSD	0.23	0.03	0.7	1.2	0.2	1.6	0.6	0.25	182	0.75

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

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

1120	JBW-2	3.20	0.59	420	19.6	1.52	92	45.26	4.17	3.1
953	SG 125	3.56	0.55	420	23.1	1.61	89	48.11	4.43	3.0
1121	JACO 6078	3.48	0.70	429	17.9	1.49	94	43.58	3.94	3.0
1122	JACO 6123	3.37	0.70	430	20.9	1.57	90	45.67	4.11	2.9
1127	PM 9506-0478	3.37	0.66	418	15.5	1.43	96	42.95	3.97	3.2
1115	AP 6101	3.27	0.58	424	20.8	1.56	91	46.09	4.22	3.0
1123	KNH 390X366-7	3.38	0.71	420	15.3	1.43	96	42.48	3.91	3.2
893	STV LA 887	3.37	0.68	427	20.2	1.55	91	45.60	4.14	3.0
1126	PM 9506-0276	3.42	0.63	447	21.0	1.56	91	43.56	3.77	2.9
1116	AP 6102	3.27	0.50	428	16.2	1.46	95	42.71	3.88	3.1
1064	94 L-25	3.66	0.55	457	21.6	1.58	90	43.50	3.70	2.8
1117	FIBERMAX 832	3.42	0.39	463	16.1	1.45	95	39.48	3.32	2.8
1063	Arkot 8712	3.32	0.50	413	15.4	1.44	96	43.56	4.08	3.2
1125	PD 94045	3.69	0.56	448	16.2	1.46	95	40.87	3.53	2.9
1124	PD 5582 SEL	3.41	0.44	435	18.9	1.52	92	43.74	3.90	3.0
1103	FIBERMAX 989	3.31	0.52	447	19.0	1.51	93	42.25	3.65	2.9
1119	GA 95-155	3.57	0.53	429	18.2	1.51	93	44.22	4.00	3.0
1114	94 LD-17	3.74	0.41	410	18.8	1.51	92	46.34	4.37	3.1
1118	GA 93-317	3.38	0.57	434	19.0	1.52	93	43.92	3.92	3.0
773	ACALA MAXXA	3.78	0.44	512	29.1	1.73	84	42.53	3.23	2.4
.	LSD	0.13	0.09	20.8	5.0	0.11	4	2.46	0.28	0.2

VARIETIES COMBINING LOCATIONS HIGH QUALITY SUBREGION

 INCLUDES LOCATIONS: TIFTON, GA; ROCKY MOUNT, NC; BELLE MINA, AL; FLORENCE, SC

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
953	SG 125	936	4.82	41.9	10.0	113	1.12	0.56	185	8.7
1125	PD 94045	936	4.98	42.0	9.9	125	1.15	0.57	208	6.6
1103	FIBERMAX 989	874	4.97	40.9	10.3	144	1.14	0.57	222	6.5

1127	PM 9506-0478	859	4.97	42.4	10.2	135	1.17	0.56	241	9.7
893	STV LA 887	852	5.53	41.9	10.8	134	1.12	0.56	204	7.6
1122	JACO 6123	849	4.88	40.9	9.6	124	1.10	0.56	223	9.2
1121	JACO 6078	799	5.00	42.5	9.7	127	1.13	0.55	217	8.0
1118	GA 93-317	794	4.64	39.7	9.5	136	1.10	0.57	234	7.8
1115	AP 6101	790	4.48	39.7	9.5	134	1.15	0.56	230	8.3
1063	Arkot 8712	787	4.89	39.5	10.2	130	1.16	0.58	223	8.1
1126	PM 9506-0276	785	4.80	41.8	10.1	130	1.19	0.59	224	9.4
1120	JBW-2	782	4.67	40.6	9.7	127	1.13	0.57	209	7.4
1117	FIBERMAX 832	768	5.20	39.6	10.5	148	1.19	0.59	229	7.1
1116	AP 6102	761	4.40	38.5	9.2	133	1.17	0.57	224	8.2
1123	KNH 390X366-7	736	4.69	38.9	9.9	130	1.11	0.56	212	6.9
1119	GA 95-155	731	4.98	38.6	10.9	135	1.10	0.56	215	7.3
1114	94 LD-17	719	4.94	37.4	11.6	122	1.10	0.56	183	6.9
1064	94 L-25	694	5.54	39.3	12.1	121	1.11	0.52	206	6.3
1124	PD 5582 SEL	642	4.75	39.1	9.9	132	1.15	0.57	217	7.4
773	ACALA MAXXA	541	5.11	41.5	11.9	147	1.14	0.58	245	7.4
.	LSD	.	.	.	.	.	.	.	.	.

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		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	b			
953	SG 125	4.48	1.08	83.3	26.0	10.5	74.0	8.1	4.43	1207	17.72
1125	PD 94045	4.30	1.15	82.7	28.0	9.4	74.8	8.0	4.43	1093	16.58
1103	FIBERMAX 989	4.28	1.08	82.5	31.0	9.2	76.8	7.6	4.20	1230	19.56
1127	PM 9506-0478	4.20	1.10	84.1	31.0	10.0	74.8	7.2	4.30	1061	17.86
893	STV LA 887	4.65	1.10	83.4	29.0	9.8	74.3	8.7	4.68	1096	18.30
1122	JACO 6123	4.18	1.10	82.4	29.0	9.9	75.3	8.5	4.35	1159	18.18
1121	JACO 6078	3.73	1.10	82.4	30.3	9.7	74.8	8.3	3.70	955	16.05
1118	GA 93-317	4.18	1.10	82.5	34.5	10.4	73.0	7.9	4.15	1063	18.63
1115	AP 6101	4.40	1.10	82.2	30.5	9.9	71.8	6.8	4.35	1170	17.05
1063	Arkot 8712	4.33	1.15	84.2	29.5	9.9	74.5	7.6	4.40	1083	18.07
1126	PM 9506-0276	4.33	1.18	84.0	30.3	10.5	75.3	7.6	4.33	1082	16.95
1120	JBW-2	4.43	1.10	82.9	30.5	9.8	75.5	7.4	4.33	1119	17.51
1117	FIBERMAX 832	4.15	1.18	84.1	32.5	9.7	75.8	7.0	3.95	1107	18.43
1116	AP 6102	4.30	1.15	83.9	30.5	10.4	76.0	7.6	4.38	1060	16.74

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LOCATION	LINT	BOLL	LINT	SEED	YARN	DIGITAL FIBROGRAPH		STELOMETER	
	YIELD	SIZE				PERCENT	INDEX	TENACITY	2.5% S.L.	50% S.L.	T1	E1
	(lb/acre)	(g/boll)			(mN/TEX)	(inches)	(inches)	(mN/tex)	(%)
COLLEGE STATION, TX	1201	5.63	40.7	9.6	129	1.15	0.57	211	7.1
ROCKY MOUNT, NC	1080	5.68	40.9	10.6	.	.	.	.	.
STONEVILLE, MS	910	4.82	36.8	10.6	147	1.19	0.59	235	6.9
TIFTON, GA	831	3.68	.	10.8	.	.	.	.	.
BOSSIER CITY, LA	776	4.76	38.5	9.8	130	1.15	0.56	220	7.0
BELLE MINA, AL	737	4.77	40.6	10.1	139	1.16	0.58	232	8.0
PORTAGEVILLE, MO	571	.	.	.	139	1.17	0.60	212	7.3
FLORENCE, SC	488	5.47	39.6	9.4	124	1.11	0.55	205	7.6
KEISER, AR	293	5.30	37.0	10.8	138	1.18	0.59	215	7.5

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

LOCATION	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO- MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
						HUNTER'S Rd	MICRONAIRE b (Reading)			
COLLEGE STATION, TX	4.96	1.12	84.1	29.5	9.7	64.7	7.1	5.13	1725	18.31
ROCKY MOUNT, NC	.	.	.	.	.	.	.	.	1402	.
STONEVILLE, MS	4.38	1.16	84.5	32.0	9.5	75.7	8.5	4.40	1385	19.39
TIFTON, GA	.	.	.	.	.	.	.	.	.	.
BOSSIER CITY, LA	4.59	1.12	83.4	30.4	9.7	65.5	7.2	4.66	1286	17.66
BELLE MINA, AL	4.22	1.13	84.1	32.7	10.2	75.9	8.4	4.31	1076	18.26
PORTAGEVILLE, MO	4.63	1.15	85.5	29.7	9.9	70.9	6.9	4.74	.	18.92
FLORENCE, SC	4.33	1.09	82.1	28.2	9.6	73.2	6.9	4.26	757	17.59
KEISER, AR	4.59	1.14	84.7	30.6	9.7	72.3	8.0	4.63	489	18.86

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

LOCATION	FREE		A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
	NITROGEN (%)	GOSSYPOL (%)							
COLLEGE STATION, TX	3.43	0.50	401	12.2	1.36	99	42.44	4.10	3.4
ROCKY MOUNT, NC	.	.	.	.	.	.	.	.	.
STONEVILLE, MS	3.31	0.64	462	26.7	1.69	86	46.02	3.87	2.7
TIFTON, GA	.	.	.	.	.	.	.	.	.
BOSSIER CITY, LA	3.70	0.39	438	14.4	1.41	96	40.49	3.58	3.0
BELLE MINA, AL	3.47	0.72	464	29.3	1.75	84	47.29	3.95	2.6
PORTAGEVILLE, MO	3.48	0.61	430	20.3	1.55	91	45.36	4.10	3.0
FLORENCE, SC	3.74	0.45	466	23.1	1.61	89	43.46	3.61	2.7
KEISER, AR	3.31	0.68	445	21.9	1.59	90	44.89	3.93	2.8

VARIETIES BY LOCATIONS

COLLEGE STATION, TX

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1123	KNH 390X366-7	1592	4.90	39.7	8.6	126	1.12	0.56	203	6.2
1120	JBW-2	1467	5.00	41.7	8.2	118	1.12	0.55	201	6.9
1117	FIBERMAX 832	1457	6.95	39.9	11.0	147	1.19	0.60	237	6.8
1127	PM 9506-0478	1333	5.45	42.6	9.6	131	1.17	0.59	225	8.9
1121	JACO 6078	1331	5.95	42.9	9.1	128	1.16	0.58	198	7.3
1126	PM 9506-0276	1318	5.60	40.8	9.5	121	1.19	0.59	223	7.7
1122	JACO 6123	1312	5.35	41.7	8.7	119	1.14	0.57	192	8.5
953	SG 125	1301	5.65	41.9	9.4	110	1.13	0.58	184	8.4
1125	PD 94045	1300	5.20	41.4	9.5	134	1.13	0.56	206	6.5
1116	AP 6102	1231	4.95	40.2	8.1	124	1.17	0.59	207	7.5
1103	FIBERMAX 989	1211	5.75	42.2	9.6	144	1.15	0.56	223	6.9

1115	AP 6101	1195	4.75	41.7	8.1	121	1.15	0.57	204	7.3
893	STV LA 887	1170	6.05	39.7	10.4	132	1.16	0.58	218	7.3
1124	PD 5582 SEL	1136	5.25	39.4	7.5	126	1.14	0.57	221	7.4
1064	94 L-25	1085	6.65	38.5	12.5	134	1.21	0.57	207	6.1
1119	GA 95-155	1059	5.60	39.1	10.1	137	1.12	0.57	218	6.0
1063	Arkot 8712	1007	5.95	40.0	10.0	132	1.16	0.59	219	7.2
1114	94 LD-17	984	6.00	37.8	11.5	118	1.11	0.58	202	6.4
1118	GA 93-317	791	5.55	40.1	9.8	137	1.13	0.57	212	6.8
773	ACALA MAXXA	739	6.05	42.5	11.2	147	1.14	0.56	222	6.8
.	LSD	194	0.39	.	.	10	0.02	0.02	.	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)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	MICRONAIRE b (Reading)			
1123	KNH 390X366-7	5.00	1.10	83.1	31.5	9.7	67.5	6.7	5.25	2349	19.94
1120	JBW-2	5.30	1.10	82.6	28.5	9.9	64.5	5.7	5.60	1868	18.20
1117	FIBERMAX 832	4.65	1.20	84.5	30.5	9.4	66.5	7.0	4.70	2165	18.63
1127	PM 9506-0478	5.35	1.15	85.5	30.5	10.0	63.0	7.5	5.50	1881	19.61
1121	JACO 6078	4.85	1.10	84.3	26.5	9.5	64.0	7.5	5.00	1744	19.01
1126	PM 9506-0276	5.00	1.20	85.6	28.0	10.0	66.5	6.9	5.00	1910	15.89
1122	JACO 6123	4.95	1.10	84.0	26.5	10.0	66.0	7.3	5.00	1796	19.99
953	SG 125	5.10	1.10	84.9	24.5	10.0	64.0	7.5	5.20	1828	17.34
1125	PD 94045	4.85	1.10	83.2	27.5	9.2	64.0	7.1	5.05	1938	17.11
1116	AP 6102	5.10	1.15	84.7	31.0	10.0	68.5	6.1	5.35	1557	17.11
1103	FIBERMAX 989	4.90	1.10	83.3	31.5	9.5	65.0	7.1	4.95	1560	19.57
1115	AP 6101	5.20	1.10	83.2	30.0	10.0	66.0	5.9	5.40	1546	16.34
893	STV LA 887	5.00	1.10	84.7	30.0	10.0	64.5	8.3	5.15	1900	19.65
1124	PD 5582 SEL	4.90	1.10	84.6	29.5	9.8	63.0	7.3	5.15	1802	17.63
1064	94 L-25	4.45	1.20	84.3	28.5	8.8	63.0	7.3	4.70	1677	18.19
1119	GA 95-155	5.05	1.10	82.5	32.0	9.8	61.0	7.4	5.05	1605	18.21
1063	Arkot 8712	5.15	1.15	84.7	30.0	10.0	66.5	7.3	5.35	1402	17.80
1114	94 LD-17	5.15	1.05	84.2	29.5	9.9	63.5	7.9	5.40	1695	19.46
1118	GA 93-317	5.00	1.10	84.2	31.0	10.0	64.0	7.4	5.30	1393	19.41
773	ACALA MAXXA	4.30	1.10	84.8	32.0	9.1	62.0	7.1	4.40	875	17.09
.	LSD	0.32	.	.	.	.	3.3	1.1	.	400	1.07

-----AREALOMETER DATA-----										
VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	FREE GOSSYPOL (%)	A	D	M I	M (%)	p	w	t
				---(mm2/mm3)---				(microns)	(mg/in)	(microns)
1123	KNH 390X366-7	3.26	0.80	376	8.3	1.25	103	41.77	4.29	3.8
1120	JBW-2	3.22	0.56	383	6.8	1.21	104	39.80	4.05	3.8
1117	FIBERMAX 832	3.24	0.30	416	13.3	1.39	98	41.83	3.89	3.2
1127	PM 9506-0478	3.25	0.64	382	5.3	1.17	106	38.44	3.89	3.8
1121	JACO 6078	3.43	0.72	409	7.3	1.23	104	37.67	3.57	3.5
1126	PM 9506-0276	3.35	0.54	402	8.8	1.27	102	39.72	3.83	3.5
1122	JACO 6123	3.20	0.67	404	19.8	1.54	91	47.99	4.59	3.1
953	SG 125	3.53	0.41	386	13.8	1.40	97	45.55	4.57	3.5
1125	PD 94045	3.81	0.41	420	12.5	1.37	98	41.08	3.79	3.2
1116	AP 6102	3.39	0.43	380	10.3	1.31	100	43.37	4.42	3.6
1103	FIBERMAX 989	3.19	0.58	411	9.8	1.29	101	39.46	3.71	3.4
1115	AP 6101	3.32	0.39	377	12.3	1.37	98	45.45	4.66	3.5
893	STV LA 887	3.67	0.64	393	13.5	1.40	97	44.63	4.40	3.4
1124	PD 5582 SEL	3.36	0.50	415	10.0	1.31	101	39.40	3.67	3.3
1064	94 L-25	3.85	0.41	423	20.3	1.56	91	46.12	4.22	3.0
1119	GA 95-155	3.49	0.43	398	14.8	1.43	96	45.01	4.37	3.3
1063	Arkot 8712	3.22	0.41	385	11.3	1.33	100	43.19	4.33	3.6
1114	94 LD-17	3.67	0.24	386	12.5	1.38	98	44.64	4.47	3.4
1118	GA 93-317	3.38	0.58	406	12.8	1.37	99	42.28	4.03	3.3
773	ACALA MAXXA	3.83	0.28	477	21.3	1.58	90	41.52	3.37	2.6
.	LSD	0.25	0.19	.	.	0.26	.	.	.	.

BOSSIER CITY, LA

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)			TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1122	JACO 6123	1137	4.75	40.4	9.0	125	1.15	0.57	207	8.4
953	SG 125	1117	4.50	40.8	9.3	115	1.11	0.56	198	8.0

1115	AP 6101	925	4.05	37.9	8.3	121	1.15	0.56	214	6.7
893	STV LA 887	911	5.55	40.1	10.6	140	1.15	0.55	227	8.0
1127	PM 9506-0478	899	4.85	40.5	9.6	134	1.19	0.58	232	7.9
1117	FIBERMAX 832	891	5.45	37.3	11.5	147	1.19	0.59	238	6.8
1120	JBW-2	883	4.45	40.2	8.6	115	1.12	0.54	202	7.0
1121	JACO 6078	860	5.00	39.9	9.3	122	1.15	0.58	209	7.1
1119	GA 95-155	852	4.80	37.2	10.7	136	1.15	0.57	213	7.1
1063	Arkot 8712	736	4.95	37.8	10.0	131	1.15	0.58	221	7.5
1064	94 L-25	735	5.45	37.6	11.7	135	1.21	0.56	227	5.2
1125	PD 94045	730	4.60	38.5	9.7	136	1.13	0.55	210	6.3
1118	GA 93-317	725	4.70	37.4	9.1	134	1.13	0.56	227	7.4
1126	PM 9506-0276	718	4.45	38.2	9.9	127	1.19	0.59	216	8.1
1123	KNH 390X366-7	715	4.55	38.4	8.9	125	1.14	0.56	216	6.2
1116	AP 6102	673	4.15	36.5	8.7	130	1.13	0.56	231	7.0
1124	PD 5582 SEL	625	4.50	37.4	9.6	129	1.13	0.55	219	6.7
1114	94 LD-17	503	4.70	34.7	11.2	118	1.12	0.56	216	5.5
1103	FIBERMAX 989	470	4.80	39.1	9.4	142	1.12	0.56	230	6.8
773	ACALA MAXXA	409	4.90	40.2	10.6	149	1.12	0.56	249	7.0
.	LSD	185	0.29	.	.	6	0.01	0.02	.	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)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	MICRONAIRE b (Reading)			
1122	JACO 6123	4.60	1.10	83.8	28.5	10.0	66.0	7.1	4.70	1634	19.29
953	SG 125	4.70	1.10	83.1	26.5	10.0	65.5	7.4	4.85	1595	17.47
1115	AP 6101	4.75	1.10	83.2	30.0	9.9	68.5	6.7	4.70	1530	16.29
893	STV LA 887	4.65	1.10	83.3	31.5	10.0	67.0	7.7	4.60	1304	18.49
1127	PM 9506-0478	4.80	1.20	84.7	31.5	10.4	66.0	7.8	4.95	1284	17.93
1117	FIBERMAX 832	4.10	1.20	84.3	30.5	9.5	66.0	5.8	4.15	1664	17.03
1120	JBW-2	4.90	1.10	83.4	30.0	9.5	67.0	7.0	5.20	1373	17.34
1121	JACO 6078	4.65	1.10	82.9	28.5	9.4	66.5	7.8	4.65	1233	17.57
1119	GA 95-155	4.70	1.10	83.7	31.5	9.7	61.5	7.2	4.75	1549	19.16
1063	Arkot 8712	4.65	1.10	82.7	29.5	10.0	62.0	7.2	4.85	1215	17.46
1064	94 L-25	4.25	1.20	83.4	30.0	8.9	64.0	7.7	4.35	1151	17.69
1125	PD 94045	4.45	1.10	83.3	29.5	9.3	62.5	6.7	4.45	1310	15.70
1118	GA 93-317	4.45	1.10	83.1	31.0	9.8	62.5	7.3	4.50	1211	17.55

1126	PM 9506-0276	4.70	1.15	84.0	29.0	9.8	67.5	7.0	4.80	1293	17.32
1123	KNH 390X366-7	4.80	1.10	83.1	30.5	9.2	68.0	7.0	4.90	1402	19.01
1116	AP 6102	4.65	1.15	83.2	32.0	10.0	68.0	6.8	4.75	1366	16.09
1124	PD 5582 SEL	4.45	1.10	83.3	30.5	9.6	63.5	8.0	4.35	1014	16.70
1114	94 LD-17	4.65	1.10	83.7	29.5	9.8	65.0	7.2	4.75	944	18.07
1103	FIBERMAX 989	4.50	1.10	82.4	32.0	9.4	68.5	7.6	4.65	973	19.25
773	ACALA MAXXA	4.30	1.10	83.0	35.0	9.8	64.5	6.7	4.20	666	17.92
.	LSD	0.37	.	.	.	.	3.4	0.8	.	366	1.38

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

VARIETY CODE	VARIETY NAME	FREE		A ---(mm2/mm3)---	D	M I	p (microns)	w (mg/in)	t (microns)	
		NITROGEN (%)	GOSSYPOL (%)							
1122	JACO 6123	3.69	0.61	427	14.3	1.42	96	41.59	3.77	3.1
953	SG 125	3.90	0.31	422	21.3	1.58	91	47.06	4.33	3.0
1115	AP 6101	3.59	0.49	429	13.0	1.39	98	40.50	3.66	3.1
893	STV LA 887	3.67	0.40	444	17.8	1.50	93	42.45	3.71	2.9
1127	PM 9506-0478	3.60	0.58	423	11.5	1.34	100	39.58	3.61	3.3
1117	FIBERMAX 832	3.52	0.29	486	10.8	1.32	100	34.03	2.71	2.8
1120	JBW-2	3.47	0.39	408	9.8	1.30	101	39.87	3.78	3.3
1121	JACO 6078	3.67	0.48	441	14.5	1.42	97	40.12	3.52	3.1
1119	GA 95-155	3.83	0.39	431	16.3	1.46	95	42.56	3.82	3.0
1063	Arkot 8712	3.51	0.32	423	13.3	1.39	98	41.24	3.77	3.1
1064	94 L-25	3.85	0.43	462	17.5	1.50	94	40.61	3.40	2.8
1125	PD 94045	3.84	0.43	459	10.8	1.33	100	36.22	3.06	2.9
1118	GA 93-317	3.61	0.36	435	15.3	1.45	96	41.55	3.70	3.0
1126	PM 9506-0276	3.75	0.52	444	12.0	1.36	98	38.46	3.36	3.0
1123	KNH 390X366-7	3.58	0.46	404	7.8	1.25	103	38.53	3.68	3.5
1116	AP 6102	3.59	0.32	426	10.3	1.31	100	38.68	3.51	3.2
1124	PD 5582 SEL	3.67	0.25	456	20.5	1.56	91	43.05	3.66	2.8
1114	94 LD-17	4.11	0.28	435	20.5	1.56	91	45.07	4.01	2.9
1103	FIBERMAX 989	3.63	0.23	431	10.3	1.30	101	37.80	3.39	3.3
773	ACALA MAXXA	4.06	0.25	481	21.0	1.57	91	40.93	3.30	2.6
.	LSD	0.22	0.22	.	.	0.27	.	.	.	.

STONEVILLE, MS

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1120	JBW-2	2188	4.33	37.7	9.3	134	1.18	0.57	219	7.0
953	SG 125	1042	4.50	39.9	9.9	126	1.16	0.57	191	7.9
1121	JACO 6078	1030	5.17	38.7	10.3	141	1.19	0.59	220	7.8
1122	JACO 6123	985	4.82	38.7	10.1	138	1.19	0.60	219	8.7
1127	PM 9506-0478	985	4.92	39.1	10.3	148	1.21	0.61	247	8.8
1063	Arkot 8712	958	5.20	37.4	10.7	147	1.19	0.60	241	7.2
893	STV LA 887	929	5.49	38.4	10.7	149	1.18	0.59	242	7.3
1123	KNH 390X366-7	880	4.73	36.0	10.1	139	1.14	0.57	234	6.5
1116	AP 6102	874	4.42	35.5	9.1	149	1.23	0.61	231	7.2
1126	PM 9506-0276	845	4.36	36.8	10.1	147	1.26	0.61	254	8.5
1115	AP 6101	838	4.31	36.5	9.2	141	1.21	0.60	228	6.9
1103	FIBERMAX 989	836	4.90	36.6	10.7	164	1.18	0.60	248	5.9
1124	PD 5582 SEL	810	4.69	35.9	10.5	143	1.18	0.60	250	6.3
1064	94 L-25	787	5.51	34.4	14.0	153	1.25	0.60	237	5.3
1125	PD 94045	782	4.71	37.5	10.0	143	1.21	0.60	236	6.5
1118	GA 93-317	744	4.47	36.3	10.3	150	1.18	0.59	244	7.3
1114	94 LD-17	731	5.16	33.3	13.0	137	1.13	0.57	209	5.9
1117	FIBERMAX 832	722	5.54	35.5	11.7	170	1.23	0.62	247	5.7
1119	GA 95-155	676	4.98	33.7	11.4	153	1.14	0.56	236	5.2
773	ACALA MAXXA	551	4.14	38.7	11.8	176	1.17	0.59	266	6.5
.	LSD	817	0.37	.	.	13	0.02	0.02	.	0.6

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

VARIETY CODE	VARIETY NAME	MICRONAIRE (Reading)	2.5%	UNIFO-	STRE-	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
			S.L. (in.)	MITY (%)	NGTH (g/tex)		HUNTER'S Rd	MICRONAIRE b (Reading)			
1120	JBW-2	4.55	1.10	84.3	31.5	9.3	78.5	8.0	4.60	1446	18.88
953	SG 125	4.80	1.10	83.9	27.5	9.8	75.0	8.9	4.80	1555	18.80
1121	JACO 6078	4.25	1.15	83.2	29.5	9.3	75.5	9.1	4.15	1565	20.62

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1122	JACO 6123	4.40	1.15	84.5	30.5	9.9	76.0	9.0	4.45	1522	20.67
1127	PM 9506-0478	4.55	1.20	85.0	33.0	10.0	77.0	8.4	4.70	1356	19.41
1063	Arkot 8712	4.40	1.20	85.2	31.0	9.7	75.0	8.4	4.75	1628	17.94
893	STV LA 887	4.50	1.20	84.6	31.5	9.8	75.0	9.4	4.40	1408	19.60
1123	KNH 390X366-7	4.55	1.10	82.2	32.5	9.4	75.5	8.7	4.65	1577	20.28
1116	AP 6102	4.35	1.20	85.7	33.5	9.8	77.5	8.3	4.30	1512	17.56
1126	PM 9506-0276	3.90	1.20	85.6	32.0	9.6	78.5	7.7	4.00	1435	17.64
1115	AP 6101	4.45	1.20	84.4	31.5	9.5	77.5	8.2	4.60	1360	17.37
1103	FIBERMAX 989	4.15	1.20	84.9	34.0	9.4	75.5	8.0	4.10	1396	20.43
1124	PD 5582 SEL	4.45	1.20	86.1	33.5	9.7	73.5	9.1	4.20	1529	18.89
1064	94 L-25	4.15	1.20	84.6	32.5	8.8	74.0	8.4	4.10	1545	20.02
1125	PD 94045	4.40	1.20	84.5	31.5	9.4	77.0	7.8	4.40	1245	18.05
1118	GA 93-317	4.20	1.10	84.0	34.0	9.8	74.5	8.8	4.25	1139	19.22
1114	94 LD-17	4.90	1.10	84.9	30.0	9.5	74.5	9.1	5.10	1386	21.85
1117	FIBERMAX 832	4.45	1.20	85.9	32.0	8.8	77.0	8.0	4.30	1077	20.98
1119	GA 95-155	4.35	1.10	83.0	33.0	9.0	73.5	8.9	4.25	1152	20.68
773	ACALA MAXXA	3.85	1.15	83.5	35.5	9.6	73.5	7.5	3.80	871	19.03
.	LSD	0.33	.	.	.	.	2.6	0.6	.	279	0.74

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

VARIETY CODE	VARIETY NAME	FREE		A ---(mm2/mm3)---	D	M I	p (microns)	w (mg/in)	t (microns)	
		NITROGEN (%)	GOSSYPOL (%)							
1120	JBW-2	3.05	0.63	462	36.0	1.88	79	50.99	4.27	2.6
953	SG 125	3.31	0.65	440	28.5	1.73	85	49.48	4.35	2.8
1121	JACO 6078	3.42	0.78	466	23.0	1.62	89	43.45	3.60	2.7
1122	JACO 6123	3.23	0.83	462	28.8	1.74	84	47.24	3.96	2.6
1127	PM 9506-0478	3.30	0.77	445	21.5	1.59	90	44.78	3.90	2.8
1063	Arkot 8712	3.25	0.55	437	24.5	1.65	88	47.40	4.20	2.9
893	STV LA 887	3.08	0.86	451	26.5	1.69	86	47.10	4.04	2.8
1123	KNH 390X366-7	3.24	0.68	453	26.8	1.70	86	47.05	4.02	2.7
1116	AP 6102	3.09	0.54	460	21.3	1.58	90	43.04	3.62	2.8
1126	PM 9506-0276	3.32	0.65	492	34.5	1.85	80	47.22	3.71	2.4
1115	AP 6101	3.11	0.62	452	32.3	1.81	82	50.25	4.30	2.7
1103	FIBERMAX 989	3.09	0.54	476	33.8	1.84	81	48.52	3.96	2.6
1124	PD 5582 SEL	3.32	0.44	470	27.5	1.71	85	45.69	3.76	2.6
1064	94 L-25	3.63	0.69	483	28.5	1.73	85	44.99	3.61	2.6

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1125	PD 94045	3.54	0.68	468	22.3	1.61	89	42.97	3.55	2.7
1118	GA 93-317	3.13	0.65	466	30.0	1.76	84	47.44	3.93	2.6
1114	94 LD-17	3.60	0.52	411	23.5	1.61	89	49.19	4.62	3.1
1117	FIBERMAX 832	3.47	0.49	465	18.8	1.52	93	41.09	3.42	2.8
1119	GA 95-155	3.38	0.61	462	17.8	1.50	93	40.73	3.41	2.8
773	ACALA MAXXA	3.68	0.61	517	28.0	1.72	85	41.77	3.12	2.4
.	LSD	0.17	0.13	.	.	0.19	.	.	.	.

PORTAGEVILLE, MO

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1121	JACO 6078	773	.	.	.	133	1.16	0.60	193	7.2
1122	JACO 6123	742	.	.	.	127	1.16	0.59	197	8.3
953	SG 125	689	.	.	.	123	1.15	0.59	195	8.0
1115	AP 6101	675	.	.	.	139	1.19	0.60	211	8.6
1120	JBW-2	625	.	.	.	134	1.15	0.59	204	6.8
1116	AP 6102	620	.	.	.	143	1.19	0.60	210	7.8
1127	PM 9506-0478	619	.	.	.	142	1.19	0.62	225	9.0
1126	PM 9506-0276	597	.	.	.	138	1.23	0.63	219	8.8
1124	PD 5582 SEL	597	.	.	.	133	1.21	0.61	207	6.7
893	STV LA 887	595	.	.	.	134	1.14	0.58	200	8.4
1117	FIBERMAX 832	595	.	.	.	160	1.24	0.61	242	6.5
1103	FIBERMAX 989	578	.	.	.	161	1.18	0.60	229	5.9
1123	KNH 390X366-7	556	.	.	.	145	1.13	0.59	220	6.8
1063	Arkot 8712	547	.	.	.	132	1.19	0.60	203	7.1
1125	PD 94045	495	.	.	.	145	1.21	0.61	216	7.0
1118	GA 93-317	472	.	.	.	143	1.15	0.60	218	6.6
1114	94 LD-17	461	.	.	.	122	1.14	0.58	189	7.0
1119	GA 95-155	314	.	.	.	144	1.16	0.60	210	6.2
773	ACALA MAXXA	303	.	.	.	146	1.13	0.56	231	7.2
.	LSD	137	.	.	.	7	0.02	0.02	.	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)	E	COLORIMETER		MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							HUNTER'S Rd	b			
1121	JACO 6078	4.90	1.15	84.8	28.5	9.6	69.5	7.9	5.05	.	18.98
1122	JACO 6123	4.70	1.15	84.0	26.5	9.8	71.0	7.0	4.85	.	19.06
953	SG 125	4.50	1.10	85.9	26.5	10.0	70.0	7.2	4.70	.	18.22
1115	AP 6101	4.75	1.10	85.5	30.0	10.0	74.5	6.7	4.90	.	17.85
1120	JBW-2	4.70	1.10	84.8	29.0	9.8	73.5	6.6	4.75	.	18.50
1116	AP 6102	4.55	1.20	86.4	30.5	10.0	73.0	6.6	4.75	.	16.96
1127	PM 9506-0478	4.80	1.20	85.9	30.5	10.5	72.5	7.0	5.00	.	19.65
1126	PM 9506-0276	4.50	1.20	87.3	29.0	10.5	71.0	6.1	4.55	.	17.65
1124	PD 5582 SEL	4.90	1.20	85.3	31.0	9.9	70.0	7.0	4.95	.	19.31
893	STV LA 887	4.80	1.10	84.6	29.5	10.0	69.5	7.9	5.00	.	18.83
1117	FIBERMAX 832	4.30	1.20	86.9	31.0	9.5	72.0	6.1	4.30	.	19.80
1103	FIBERMAX 989	4.25	1.20	85.8	30.5	9.4	71.0	7.1	4.30	.	20.29
1123	KNH 390X366-7	4.50	1.10	84.8	31.5	9.8	72.5	6.5	4.70	.	19.42
1063	Arkot 8712	5.00	1.15	86.0	29.0	10.5	68.5	6.9	5.10	.	19.05
1125	PD 94045	4.40	1.20	86.3	29.5	9.6	71.0	6.4	4.55	.	17.68
1118	GA 93-317	4.75	1.10	84.8	31.5	10.0	70.0	7.4	4.90	.	18.74
1114	94 LD-17	5.05	1.10	84.3	27.0	9.9	67.0	6.7	5.15	.	21.73
1119	GA 95-155	4.70	1.15	85.8	32.0	9.9	72.0	7.6	4.70	.	19.35
773	ACALA MAXXA	3.85	1.15	85.0	30.5	9.6	68.0	7.2	3.80	.	18.45
.	LSD	0.25	.	.	.	.	2.2	0.8	.	.	1.75

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	FREE GOSSYPOL (%)	A		D	M	p	w	t
				---	---					
				---(mm2/mm3)---						
				I	(%)	(microns)	(mg/in)	(microns)		
1121	JACO 6078	3.38	0.74	405	20.0	1.55	92	47.92	4.57	3.1
1122	JACO 6123	3.55	0.65	423	19.8	1.55	92	45.78	4.19	3.0
953	SG 125	3.61	0.73	432	28.0	1.72	85	50.10	4.49	2.9
1115	AP 6101	3.40	0.69	423	22.8	1.61	90	47.68	4.36	3.0
1120	JBW-2	3.29	0.65	429	27.0	1.70	86	49.86	4.50	2.9
1116	AP 6102	3.18	0.56	435	22.0	1.60	90	45.96	4.09	2.9

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1127	PM 9506-0478	3.38	0.51	408	19.3	1.53	92	47.02	4.45	3.2
1126	PM 9506-0276	3.38	0.64	448	24.5	1.65	88	46.29	4.00	2.8
1124	PD 5582 SEL	3.49	0.50	403	19.0	1.53	92	47.55	4.56	3.2
893	STV LA 887	3.34	0.75	405	20.8	1.57	91	48.56	4.64	3.1
1117	FIBERMAX 832	3.46	0.43	460	13.0	1.39	98	37.79	3.18	2.9
1103	FIBERMAX 989	3.49	0.57	461	22.8	1.62	89	43.93	3.69	2.7
1123	KNH 390X366-7	3.51	0.80	433	14.0	1.41	97	40.77	3.64	3.1
1063	Arkot 8712	3.48	0.59	406	10.8	1.33	100	40.95	3.91	3.4
1125	PD 94045	3.60	0.62	447	14.5	1.43	96	40.02	3.48	2.9
1118	GA 93-317	3.54	0.61	423	19.0	1.53	93	45.29	4.14	3.0
1114	94 LD-17	3.77	0.49	402	14.0	1.40	97	43.67	4.20	3.3
1119	GA 95-155	3.57	0.55	424	21.3	1.58	90	46.75	4.27	3.0
773	ACALA MAXXA	3.72	0.53	500	33.5	1.83	81	45.96	3.56	2.4
.	LSD	0.19	0.13	.	.	0.23	.	.	.	.

LOCATION=KEISER, AR

VARIETY CODE	VARIETY NAME	LINT	BOLL	LINT PERCENT	SEED INDEX	YARN TENACITY (mN/TEX)	DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)				2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1121	JACO 6078	516	5.38	40.2	10.7	132	1.19	0.60	198	7.8
1063	Arkot 8712	437	5.50	36.0	11.2	136	1.21	0.60	219	7.8
953	SG 125	434	5.79	38.9	10.6	121	1.16	0.60	175	8.1
1127	PM 9506-0478	424	5.54	39.9	10.4	141	1.19	0.60	220	8.4
1115	AP 6101	398	4.71	37.6	9.1	133	1.19	0.60	223	8.3
1126	PM 9506-0276	385	5.19	37.2	10.6	136	1.21	0.60	220	8.3
1064	94 L-25	382	6.15	35.0	12.0	144	1.25	0.60	232	6.6
1116	AP 6102	349	4.80	36.7	8.8	140	1.19	0.60	235	8.6
1114	94 LD-17	317	5.88	35.1	11.5	128	1.10	0.56	209	7.4
1120	JBW-2	317	4.71	38.5	9.8	132	1.17	0.59	209	7.7
893	STV LA 887	309	5.68	38.4	11.4	138	1.17	0.60	218	8.9
1122	JACO 6123	302	5.64	36.9	10.5	134	1.17	0.60	203	8.7
1118	GA 93-317	254	5.43	37.8	10.6	144	1.14	0.58	232	7.3
1123	KNH 390X366-7	233	5.47	35.9	10.2	138	1.15	0.57	223	6.7
1124	PD 5582 SEL	231	5.42	36.7	11.6	135	1.19	0.60	211	6.3
1125	PD 94045	188	5.50	36.4	11.6	142	1.21	0.60	215	6.0

1119	GA 95-155	167	4.56	35.3	11.4	143	1.13	0.58	218	7.5
1103	FIBERMAX 989	115	4.83	35.8	11.0	153	1.19	0.60	227	6.3
1117	FIBERMAX 832	68	6.05	35.7	11.9	151	1.22	0.60	220	6.8
773	ACALA MAXXA	39	3.73	36.5	11.2	141	1.14	0.59	201	6.8
.	LSD	80	0.56	.	.	7	0.01	0.02	.	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)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	MICRONAIRE b (Reading)			
1121	JACO 6078	4.75	1.15	85.2	29.0	9.6	72.0	8.9	4.85	768	19.30
1063	Arkot 8712	4.80	1.15	85.2	29.5	9.9	69.0	7.7	4.85	753	19.02
953	SG 125	4.95	1.10	83.8	28.0	9.8	72.0	8.2	5.05	622	17.25
1127	PM 9506-0478	4.75	1.15	84.6	31.5	10.0	72.5	8.2	4.85	694	20.22
1115	AP 6101	4.70	1.10	84.8	31.0	10.5	75.5	7.7	4.65	647	17.45
1126	PM 9506-0276	4.65	1.20	85.7	29.5	9.9	76.5	7.6	4.50	712	18.14
1064	94 L-25	4.35	1.25	85.6	33.0	9.2	72.5	8.4	4.50	704	18.02
1116	AP 6102	4.80	1.15	85.4	32.0	10.0	74.0	7.6	4.80	653	17.01
1114	94 LD-17	4.90	1.10	83.5	29.5	9.7	72.5	8.5	5.15	625	21.37
1120	JBW-2	4.90	1.10	84.5	30.0	9.7	72.5	7.5	5.10	555	18.07
893	STV LA 887	4.55	1.10	84.7	30.5	10.0	73.5	8.9	4.60	433	18.03
1122	JACO 6123	4.60	1.10	84.5	28.5	9.7	73.5	8.6	4.75	508	19.98
1118	GA 93-317	4.55	1.10	84.3	33.0	10.0	70.5	8.4	4.65	448	19.87
1123	KNH 390X366-7	4.70	1.10	83.5	32.0	9.8	73.0	7.9	4.80	392	19.64
1124	PD 5582 SEL	4.80	1.15	85.7	30.5	9.6	69.0	8.7	4.95	381	19.42
1125	PD 94045	4.50	1.20	84.5	29.5	9.2	73.5	7.4	4.55	314	17.22
1119	GA 95-155	4.70	1.10	84.3	31.5	9.5	72.0	8.4	4.75	235	19.06
1103	FIBERMAX 989	4.30	1.15	85.2	32.0	9.4	71.5	7.7	4.25	187	20.16
1117	FIBERMAX 832	4.05	1.20	85.4	31.0	9.2	69.5	6.8	3.85	74	19.95
773	ACALA MAXXA	3.45	1.10	83.3	31.0	9.2	71.0	7.5	3.20	69	17.97
.	LSD	0.41	.	.	.	.	2.8	0.6	.	254	1.12

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

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

1998 National Cotton Variety Test

CODE	NAME	(%)	(%)	--- (mm ² /mm ³) ---		I	(%)	(microns)	(mg/in)	(microns)
1121	JACO 6078	3.50	0.79	425	24.5	1.65	88	48.76	4.44	2.9
1063	Arkot 8712	3.15	0.65	415	17.3	1.49	94	45.03	4.20	3.1
953	SG 125	3.46	0.65	422	23.8	1.63	89	48.36	4.44	3.0
1127	PM 9506-0478	3.33	0.80	432	19.8	1.55	92	44.95	4.03	3.0
1115	AP 6101	2.94	0.71	439	23.5	1.63	89	46.57	4.11	2.9
1126	PM 9506-0276	3.31	0.82	452	25.0	1.66	87	46.10	3.95	2.8
1064	94 L-25	3.31	0.69	459	20.3	1.55	91	42.31	3.56	2.8
1116	AP 6102	3.11	0.69	438	17.0	1.49	94	42.52	3.76	2.9
1114	94 LD-17	3.58	0.54	416	23.5	1.63	88	49.14	4.57	3.0
1120	JBW-2	3.00	0.75	416	18.5	1.52	93	45.80	4.27	3.1
893	STV LA 887	3.11	0.77	445	22.3	1.60	90	45.27	3.94	2.8
1122	JACO 6123	3.20	0.75	437	21.8	1.60	90	45.78	4.06	2.9
1118	GA 93-317	3.25	0.67	439	18.0	1.50	93	43.07	3.80	2.9
1123	KNH 390X366-7	3.32	0.82	436	19.5	1.54	92	44.31	3.93	2.9
1124	PD 5582 SEL	3.21	0.51	433	17.3	1.49	94	43.01	3.84	3.0
1125	PD 94045	3.65	0.69	449	21.0	1.58	90	44.05	3.80	2.8
1119	GA 95-155	3.61	0.67	430	21.0	1.57	90	46.06	4.16	2.9
1103	FIBERMAX 989	3.15	0.67	458	18.5	1.52	93	41.56	3.51	2.8
1117	FIBERMAX 832	3.43	0.43	487	24.8	1.66	88	42.66	3.39	2.5
773	ACALA MAXXA	3.63	0.53	585	41.5	1.98	75	42.49	2.81	2.1
.	LSD	0.24	0.13	.	.	0.19	.	.	.	.

TIFTON, GA

VARIETY CODE	VARIETY NAME	LINT	BOLL	YARN			DIGITAL FIBROGRAPH		STELOMETER	
		YIELD (lb/acre)	SIZE (g/boll)	LINT PERCENT	SEED INDEX	TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
1125	PD 94045	1146	3.29	.	9.1	.	.	.	.	.
953	SG 125	1034	3.47	.	10.3	.	.	.	.	.
1964	LSD	973	.	.	.	.	.	.	.	.
893	STV LA 887	938	4.08	.	11.5	.	.	.	.	.
1121	JACO 6078	936	3.72	.	10.6	.	.	.	.	.
1114	94 LD-17	932	4.06	.	11.7	.	.	.	.	.

1120	JBW-2	.	.	.	.	.	.	.	.	.	.
1117	FIBERMAX 832	.	.	.	.	.	.	.	.	.	.
1119	GA 95-155	.	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.	.
1124	PD 5582 SEL	.	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.	.

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A --- (mm2/mm3) ---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
1125	PD 94045	.	.	.	.	.	.	.	.	.
953	SG 125	.	.	.	.	.	.	.	.	.
1964	LSD	.	.	.	.	.	.	.	.	.
893	STV LA 887	.	.	.	.	.	.	.	.	.
1121	JACO 6078	.	.	.	.	.	.	.	.	.
1114	94 LD-17	.	.	.	.	.	.	.	.	.
1118	GA 93-317	.	.	.	.	.	.	.	.	.
1064	94 L-25	.	.	.	.	.	.	.	.	.
1122	JACO 6123	.	.	.	.	.	.	.	.	.
1103	FIBERMAX 989	.	.	.	.	.	.	.	.	.
1063	Arkot 8712	.	.	.	.	.	.	.	.	.
1126	PM 9506-0276	.	.	.	.	.	.	.	.	.
1127	PM 9506-0478	.	.	.	.	.	.	.	.	.
1115	AP 6101	.	.	.	.	.	.	.	.	.
1116	AP 6102	.	.	.	.	.	.	.	.	.
1123	KNH 390X366-7	.	.	.	.	.	.	.	.	.
1120	JBW-2	.	.	.	.	.	.	.	.	.
1117	FIBERMAX 832	.	.	.	.	.	.	.	.	.
1119	GA 95-155	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.
1124	PD 5582 SEL	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.

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 (%)
1127	PM 9506-0478	656	5.67	41.9	9.3	128	1.15	0.56	237	9.9
1103	FIBERMAX 989	617	5.60	41.3	9.4	139	1.12	0.55	205	6.3
1117	FIBERMAX 832	607	5.94	38.5	10.2	140	1.17	0.57	220	6.7
1125	PD 94045	560	5.93	40.8	9.2	117	1.12	0.55	186	7.2
1115	AP 6101	560	4.84	38.1	8.7	124	1.12	0.56	202	7.8
953	SG 125	537	5.21	40.6	9.2	110	1.09	0.54	170	8.6
1122	JACO 6123	536	5.53	40.6	9.2	111	1.10	0.56	200	8.9
1118	GA 93-317	521	5.10	38.8	8.8	128	1.08	0.57	215	6.8
1063	Arkot 8712	505	5.47	39.2	9.4	128	1.13	0.57	202	7.4
1119	GA 95-155	500	5.46	37.8	9.8	125	1.07	0.56	207	7.2
1126	PM 9506-0276	477	5.25	40.8	9.5	124	1.17	0.58	225	9.8
1120	JBW-2	474	4.88	39.2	8.0	116	1.10	0.55	201	7.4
1123	KNH 390X366-7	474	5.06	38.4	9.0	127	1.09	0.54	208	7.0
1116	AP 6102	461	4.83	37.1	8.4	125	1.14	0.56	214	7.6
1124	PD 5582 SEL	454	5.07	38.2	9.1	124	1.13	0.56	202	8.0
893	STV LA 887	435	6.01	41.2	9.6	124	1.11	0.56	190	7.7
1121	JACO 6078	395	5.73	41.9	9.0	121	1.09	0.55	202	7.7
1114	94 LD-17	390	5.54	36.6	11.0	117	1.09	0.56	169	6.4
1064	94 L-25	328	6.64	39.6	11.8	121	1.11	0.52	206	6.3
773	ACALA MAXXA	271	5.66	40.8	10.6	141	1.11	0.57	231	7.5
.	LSD	138	0.51	.	.	8	0.03	0.03	.	0.8

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

VARIETY CODE	VARIETY NAME	2.5% MICRONAIRE (Reading)	UNIFO- S.L. (in.)	STRE- MITY (%)	STRE- NGTH (g/tex)	SEED YIELD (lb/ac)	OIL (%)	COLORIMETER HUNTER'S Rd	b	MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
1127	PM 9506-0478	4.50	1.10	83.4	30.0	10.0	72.5	6.9	4.40	737	18.16	
1103	FIBERMAX 989	4.25	1.05	81.3	27.0	8.7	75.5	6.8	4.30	986	20.08	
1117	FIBERMAX 832	4.20	1.15	83.7	30.0	9.4	74.5	6.0	4.00	925	18.56	
1125	PD 94045	4.40	1.10	81.1	26.0	8.9	73.5	7.5	4.35	715	16.06	
1115	AP 6101	4.50	1.10	81.2	28.0	9.8	73.5	6.3	4.40	943	17.40	

953	SG 125	4.35	1.05	82.3	25.0	10.0	73.0	7.0	4.25	788	17.26
1122	JACO 6123	4.45	1.10	82.2	27.0	9.9	74.5	7.4	4.50	834	17.59
1118	GA 93-317	4.25	1.10	81.3	29.0	9.8	72.0	6.7	4.20	710	18.82
1063	Arkot 8712	4.35	1.10	83.0	27.0	9.8	72.0	6.6	4.20	740	17.94
1119	GA 95-155	4.70	1.05	80.6	29.0	9.7	72.5	7.0	4.70	905	17.42
1126	PM 9506-0276	4.25	1.15	83.5	28.5	10.0	73.5	6.4	4.25	787	16.02
1120	JBW-2	4.25	1.10	81.8	27.0	9.7	75.0	6.3	4.25	734	16.93
1123	KNH 390X366-7	4.15	1.05	81.6	29.0	9.5	74.0	6.8	4.20	939	18.09
1116	AP 6102	4.20	1.10	82.4	28.0	9.8	74.0	6.2	4.25	736	16.48
1124	PD 5582 SEL	3.90	1.10	82.4	29.0	9.8	72.0	7.1	3.70	755	16.59
893	STV LA 887	4.30	1.10	82.0	28.0	9.7	72.5	7.7	4.25	701	17.84
1121	JACO 6078	4.25	1.10	81.3	26.5	9.3	71.5	8.0	4.10	569	14.92
1114	94 LD-17	4.75	1.00	82.2	27.0	9.8	72.5	7.2	4.70	675	20.71
1064	94 L-25	4.50	1.15	82.3	29.5	8.8	71.5	8.5	4.25	516	16.28
773	ACALA MAXXA	4.05	1.05	82.7	32.5	9.7	73.5	7.0	3.95	439	18.73
.	LSD	0.33	.	.	.	.	2.0	0.7	.	247	1.36

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

VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	FREE GOSSYPOL (%)	A		D		M (%)	p (microns)	w (mg/in)	t (microns)
				---	(mm2/mm3)---	---	(mm2/mm3)---				
1127	PM 9506-0478	3.63	0.52	447	21.5	1.59	90	44.53	3.86	2.8	
1103	FIBERMAX 989	3.89	0.50	459	14.5	1.43	96	38.88	3.28	2.9	
1117	FIBERMAX 832	3.97	0.40	478	16.8	1.47	94	38.68	3.13	2.7	
1125	PD 94045	3.69	0.36	458	14.8	1.43	96	39.18	3.32	2.9	
1115	AP 6101	3.63	0.48	464	18.3	1.51	93	40.84	3.41	2.8	
953	SG 125	3.91	0.48	468	24.0	1.64	88	43.98	3.64	2.7	
1122	JACO 6123	3.62	0.50	454	27.5	1.71	85	47.25	4.02	2.7	
1118	GA 93-317	3.79	0.56	475	22.3	1.60	90	42.34	3.45	2.6	
1063	Arkot 8712	3.78	0.48	470	25.8	1.68	87	44.83	3.70	2.6	
1119	GA 95-155	3.46	0.49	433	18.3	1.51	93	43.77	3.91	3.0	
1126	PM 9506-0276	3.62	0.45	472	17.8	1.50	94	39.75	3.26	2.7	
1120	JBW-2	3.44	0.44	452	28.3	1.73	84	47.91	4.10	2.7	
1123	KNH 390X366-7	3.61	0.47	467	27.5	1.71	85	46.01	3.81	2.6	
1116	AP 6102	3.64	0.46	462	23.5	1.62	88	44.10	3.69	2.7	
1124	PD 5582 SEL	3.67	0.33	507	31.0	1.78	83	44.25	3.39	2.4	
893	STV LA 887	3.79	0.55	477	24.0	1.64	88	43.19	3.50	2.6	

1998 National Cotton Variety Test

1121	JACO 6078	3.69	0.48	478	31.5	1.79	82	47.11	3.84	2.5
1114	94 LD-17	4.10	0.38	456	23.3	1.63	88	44.76	3.80	2.7
1064	94 L-25	3.88	0.36	467	25.3	1.67	87	44.83	3.72	2.7
773	ACALA MAXXA	4.10	0.44	489	25.8	1.68	87	43.07	3.41	2.5
.	LSD	0.23	0.06	.	.	0.18	.	.	.	.

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)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
953	SG 125	1299	5.54	42.1	10.5	.	.	.	.	.
1125	PD 94045	1204	5.65	43.1	10.5	.	.	.	.	.
1122	JACO 6123	1178	5.91	41.0	10.5	.	.	.	.	.
1120	JBW-2	1172	5.35	41.7	9.2	.	.	.	.	.
893	STV LA 887	1168	6.61	42.2	11.5	.	.	.	.	.
1127	PM 9506-0478	1155	5.70	42.7	10.6	.	.	.	.	.
1103	FIBERMAX 989	1134	5.74	40.6	10.7	.	.	.	.	.
1121	JACO 6078	1131	5.87	42.6	10.1	.	.	.	.	.
1063	Arkot 8712	1114	5.68	40.0	11.4	.	.	.	.	.
1116	AP 6102	1098	4.92	40.4	8.8	.	.	.	.	.
1119	GA 95-155	1087	5.72	40.0	10.7	.	.	.	.	.
1117	FIBERMAX 832	1065	6.15	41.2	10.4	.	.	.	.	.
1124	PD 5582 SEL	1064	5.53	39.5	9.9	.	.	.	.	.
1126	PM 9506-0276	1058	5.65	43.0	10.7	.	.	.	.	.
1123	KNH 390X366-7	1057	5.19	39.1	10.0	.	.	.	.	.
1115	AP 6101	1051	5.10	40.5	8.9	.	.	.	.	.
1118	GA 93-317	1016	5.93	40.0	10.4	.	.	.	.	.
1114	94 LD-17	925	5.60	37.1	12.2	.	.	.	.	.
1064	94 L-25	848	6.34	39.0	13.8	.	.	.	.	.
773	ACALA MAXXA	786	5.51	42.9	11.7	.	.	.	.	.
.	LSD	134	0.45	.	.	.	.	.	.	.

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

1998 National Cotton Variety Test

1121	JACO 6078	.	.	.	.	.	.	.	.	.
1063	Arkot 8712	.	.	.	.	.	.	.	.	.
1116	AP 6102	.	.	.	.	.	.	.	.	.
1119	GA 95-155	.	.	.	.	.	.	.	.	.
1117	FIBERMAX 832	.	.	.	.	.	.	.	.	.
1124	PD 5582 SEL	.	.	.	.	.	.	.	.	.
1126	PM 9506-0276	.	.	.	.	.	.	.	.	.
1123	KNH 390X366-7	.	.	.	.	.	.	.	.	.
1115	AP 6101	.	.	.	.	.	.	.	.	.
1118	GA 93-317	.	.	.	.	.	.	.	.	.
1114	94 LD-17	.	.	.	.	.	.	.	.	.
1064	94 L-25	.	.	.	.	.	.	.	.	.
773	ACALA MAXXA	.	.	.	.	.	.	.	.	.
.	LSD	.	.	.	.	.	.	.	.	.

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 (%)
953	SG 125	876	5.04	43.1	9.9	117	1.15	0.58	200	8.8
893	STV LA 887	866	5.43	42.3	10.8	143	1.13	0.56	218	7.5
1103	FIBERMAX 989	859	4.90	40.7	10.3	149	1.17	0.58	239	6.8
1125	PD 94045	834	5.06	42.1	10.8	132	1.17	0.59	229	6.0
1127	PM 9506-0478	792	4.83	42.7	9.9	143	1.19	0.56	245	9.5
1122	JACO 6123	789	4.74	41.2	9.3	137	1.10	0.55	246	9.5
1120	JBW-2	777	4.46	40.8	9.2	138	1.17	0.58	217	7.3
1126	PM 9506-0276	763	4.91	41.6	10.8	135	1.21	0.59	223	9.0
1121	JACO 6078	733	4.67	42.9	8.9	133	1.17	0.55	233	8.3
1115	AP 6101	732	4.03	40.4	9.7	144	1.19	0.56	258	8.8
1118	GA 93-317	726	3.86	40.4	9.0	145	1.11	0.58	253	8.8
1119	GA 95-155	705	4.68	37.9	10.3	144	1.13	0.56	224	7.5
1117	FIBERMAX 832	705	5.35	39.2	10.4	155	1.21	0.60	238	7.5
1116	AP 6102	699	4.12	38.0	8.8	140	1.19	0.59	234	8.8
1063	Arkot 8712	683	4.78	39.4	10.4	133	1.19	0.59	244	8.8
1124	PD 5582 SEL	651	4.86	39.6	9.6	140	1.17	0.59	232	6.8

1123	KNH 390X366-7	644	4.73	39.1	10.3	133	1.13	0.57	217	6.8
1114	94 LD-17	627	4.58	38.6	11.7	127	1.12	0.56	197	7.3
773	ACALA MAXXA	543	5.53	40.9	12.6	154	1.17	0.59	260	7.3
.	LSD	73	0.52	.	.	.	.	.	.	.

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		SEED MICRONAIRE (Reading)	SEED YIELD (lb/ac)	OIL (%)
							HUNTER'S Rd	b			
953	SG 125	4.60	1.10	84.4	27.0	11.0	75.0	9.3	4.60	1199	18.17
893	STV LA 887	5.00	1.10	84.8	30.0	10.0	76.0	9.6	5.10	1231	18.76
1103	FIBERMAX 989	4.30	1.10	83.8	35.0	9.7	78.0	8.4	4.10	1183	19.04
1125	PD 94045	4.20	1.20	84.3	30.0	9.8	76.0	8.5	4.50	1135	17.09
1127	PM 9506-0478	3.90	1.10	84.8	32.0	10.0	77.0	7.4	4.20	1077	17.55
1122	JACO 6123	3.90	1.10	82.6	31.0	10.0	76.0	9.6	4.20	1162	18.77
1120	JBW-2	4.60	1.10	84.1	34.0	10.0	76.0	8.4	4.40	1088	18.09
1126	PM 9506-0276	4.40	1.20	84.6	32.0	11.0	77.0	8.8	4.40	1178	17.88
1121	JACO 6078	3.20	1.10	83.4	34.0	10.0	78.0	8.6	3.30	946	17.17
1115	AP 6101	4.30	1.10	83.2	33.0	10.0	70.0	7.4	4.30	1118	16.71
1118	GA 93-317	4.10	1.10	83.7	40.0	11.0	74.0	9.1	4.10	1052	18.45
1119	GA 95-155	3.80	1.10	83.4	36.0	10.0	76.0	4.4	3.90	1162	19.17
1117	FIBERMAX 832	4.10	1.20	84.4	35.0	10.0	77.0	8.0	3.90	1003	18.30
1116	AP 6102	4.40	1.20	85.4	33.0	11.0	78.0	9.1	4.50	1077	17.01
1063	Arkot 8712	4.30	1.20	85.5	32.0	10.0	77.0	8.5	4.60	1044	18.21
1124	PD 5582 SEL	4.40	1.10	84.3	33.0	10.0	73.0	8.2	4.60	987	18.20
1123	KNH 390X366-7	4.30	1.10	83.9	31.0	10.0	77.0	8.4	4.40	1011	18.88
1114	94 LD-17	4.30	1.10	82.6	29.0	10.0	73.0	8.5	4.50	992	20.96
773	ACALA MAXXA	4.10	1.20	84.2	35.0	9.7	78.0	8.7	4.20	801	18.49
.	LSD	.	.	.	.	.	.	.	.	116	.

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

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

953	SG 125	3.77	0.76	437	32.5	1.81	81	52.10	4.61	2.7
893	STV LA 887	3.56	0.88	477	30.0	1.76	83	46.37	3.76	2.5
1103	FIBERMAX 989	3.21	0.65	438	18.0	1.51	93	43.10	3.80	2.9
1125	PD 94045	3.68	0.67	458	23.0	1.62	89	44.34	3.74	2.7
1127	PM 9506-0478	3.58	0.77	504	36.5	1.89	79	47.03	3.61	2.4
1122	JACO 6123	3.70	0.71	481	33.0	1.82	81	47.58	3.83	2.5
1120	JBW-2	3.48	0.80	443	25.5	1.67	87	47.39	4.14	2.8
1126	PM 9506-0276	3.41	0.80	444	32.0	1.80	81	50.94	4.43	2.7
1121	JACO 6078	3.54	0.83	533	35.5	1.87	79	44.01	3.19	2.2
1115	AP 6101	3.35	0.67	459	36.5	1.89	78	51.60	4.34	2.6
1118	GA 93-317	3.29	0.64	467	33.5	1.83	80	49.21	4.07	2.6
1119	GA 95-155	3.33	0.66	509	38.0	1.91	77	47.26	3.59	2.3
1117	FIBERMAX 832	3.16	1.02	478	28.5	1.73	84	45.55	3.68	2.5
1116	AP 6102	3.27	0.68	453	22.5	1.61	89	44.51	3.80	2.7
1063	Arkot 8712	3.18	0.63	454	32.0	1.80	81	49.88	4.25	2.6
1124	PD 5582 SEL	3.43	0.57	444	24.0	1.64	88	46.33	4.03	2.8
1123	KNH 390X366-7	3.48	0.58	433	24.0	1.64	88	47.50	4.23	2.8
1114	94 LD-17	3.68	0.66	450	31.5	1.79	82	50.06	4.30	2.7
773	ACALA MAXXA	3.79	0.68	452	21.0	1.57	91	43.67	3.74	2.8
.	LSD

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 Questions or comments to: ekeene@ag.gov

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1998 National Cotton Variety Test



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**National Cotton Variety Tests, 1998
Yield, Boll, Seed, Spinning and Data**

1998 ARIZONA REGIONAL COTTON VARIETY TEST

VARIETIES COMBINING LOCATIONS COULD NOT BE STATISTICALLY EVALUATED.

COMPONENT DATA COULD NOT BE STATISTICALLY EVALUATED.

ANALYSIS OF VARIETIES COMBINED OVER LOCATIONS

LINT

BOLL

YARN

DIGITAL FIBROGRAPH

STELOMETER

LOCATION	YIELD (lb/acre)	SIZE (g/boll)	LINT PERCENT	SEED INDEX	TENACITY (mN/TEX)	2.5% S.L. (inches)	50% S.L. (inches)	T1 (mN/tex)	E1 (%)
MARICOPA, AZ	1130	4.85	36.7	11.1	132	1.17	0.57	220	6.4
SAFFORD, AZ	1036	4.64	39.6	9.7	115	1.14	0.54	202	8.3

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

LOCATION	MICRONAIRE (Reading)	2.5% S.L. (in.)	UNIFO- MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER HUNTER'S Rd b		SEED MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
MARICOPA, AZ	4.75	1.15	83.5	30.4	9.8	76.4	7.7	4.88	1947	19.84
SAFFORD, AZ	4.15	1.12	82.2	27.9	9.7	76.0	8.8	4.14	1577	18.93

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

LOCATION	FREE NITROGEN (%)	GOSSYPOL (%)	A ---(mm2/mm3)---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
MARICOPA, AZ	3.48	0.75	436	23.2	1.62	89	46.81	4.18	2.9
SAFFORD, AZ	3.33	0.79	477	30.7	1.77	83	46.68	3.79	2.6

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)	50% S.L. (inches)	STELOMETER T1 (mN/tex)	E1 (%)
953	SG 125	1192	4.86	39.8	9.9	104	1.14	0.54	186	9.4
1099	DPL NuCotn 35	1192	4.82	42.2	9.3	100	1.09	0.52	187	7.8
915	SUREGROW 501	1171	4.00	41.0	8.3	123	1.10	0.53	198	7.9
578	PAYMASTER HS 26	1164	5.13	36.7	11.1	110	1.07	0.53	213	9.8
971	STV 474	1155	4.76	41.5	9.4	105	1.11	0.53	185	7.8
893	STV LA 887	1121	5.73	40.6	10.3	105	1.15	0.56	207	9.2
773	ACALA MAXXA	1120	5.19	40.6	11.2	129	1.16	0.56	227	7.0
1095	DPL 5111	1118	4.65	39.8	10.7	102	1.11	0.52	186	8.4
919	DP 5409	1104	3.92	40.3	8.5	101	1.13	0.52	186	9.0
1070	GC 120	1092	4.41	40.9	10.4	109	1.11	0.53	190	10.3
1097	PAYMASTER PM 1560 BG	1082	4.79	40.8	10.2	125	1.19	0.57	209	6.8
649	DELTAPINE 90	1079	4.37	39.8	8.9	121	1.15	0.56	214	8.7
1102	DPL 5415 RR	977	4.51	40.7	8.7	120	1.14	0.53	197	6.9
1010	OA 36	965	4.78	40.2	9.5	113	1.12	0.53	190	8.0
1072	GC 303	961	4.43	39.7	8.3	116	1.15	0.54	201	8.9
1016	SG 404	909	4.53	39.3	9.8	121	1.13	0.56	190	7.3
1101	DPL 5305	900	4.38	37.0	10.2	149	1.40	0.65	244	9.8
689	DELTAPINE 50	887	4.52	36.7	10.0	98	1.11	0.54	179	9.2
788	ACALA 1517-91	853	4.79	36.0	11.9	133	1.16	0.56	232	7.0
1073	MAC 95	682	4.20	37.3	8.4	115	1.13	0.52	212	7.7
.	LSD	370	0.57	.	.	9	0.02	0.03	.	1.5

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

VARIETY CODE	VARIETY NAME	2.5% MICRONAIRE (Reading)	UNIFO- S.L. (in.)	MITY (%)	STRE- NGTH (g/tex)	E	COLORIMETER HUNTER'S Rd b	SEED MICRONAIRE (Reading)	YIELD (lb/ac)	OIL (%)
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1998 National Cotton Variety Test

953	SG 125	4.10	1.10	82.2	24.5	9.9	75.5	9.0	4.00	1803	17.72
1099	DPL NuCotn 35	4.20	1.00	80.4	24.0	9.8	75.5	8.9	4.15	1621	18.82
915	SUREGROW 501	4.00	1.10	82.2	29.5	9.9	76.0	8.7	4.05	1682	17.41
578	PAYMASTER HS 26	4.45	1.05	81.7	27.0	10.0	75.0	8.7	4.55	2009	19.75
971	STV 474	4.10	1.10	82.3	26.0	9.4	76.5	9.2	4.00	1627	18.25
893	STV LA 887	4.10	1.10	81.8	29.0	9.9	74.5	9.1	4.00	1642	18.19
773	ACALA MAXXA	4.10	1.20	84.0	30.0	9.1	76.5	8.2	4.10	1635	18.75
1095	DPL 5111	4.15	1.10	81.0	26.5	9.5	77.5	8.3	4.25	1701	19.47
919	DP 5409	4.15	1.10	81.3	26.5	10.0	78.0	8.8	4.15	1634	19.55
1070	GC 120	4.15	1.10	82.8	26.5	9.8	76.5	8.5	4.20	1579	18.22
1097	PAYMASTER PM 1560 BG	4.50	1.15	82.8	30.0	9.3	78.5	8.5	4.65	1566	21.38
649	DELTAPINE 90	4.50	1.15	83.2	31.0	9.7	77.0	8.5	4.40	1629	20.92
1102	DPL 5415 RR	3.85	1.10	80.4	29.0	9.2	74.5	9.0	3.80	1419	18.48
1010	OA 36	4.20	1.10	81.5	25.5	10.0	76.5	9.0	4.10	1441	18.10
1072	GC 303	3.95	1.10	81.5	29.5	9.9	77.5	8.6	4.10	1458	15.82
1016	SG 404	4.50	1.05	81.9	27.5	10.0	76.0	8.8	4.60	1412	20.34
1101	DPL 5305	3.60	1.40	88.9	33.5	10.0	72.5	9.7	3.30	1528	19.07
689	DELTAPINE 50	4.35	1.10	82.2	24.5	9.7	76.5	8.5	4.55	1530	19.12
788	ACALA 1517-91	4.15	1.15	81.9	29.5	9.4	72.0	8.8	4.05	1507	20.14
1073	MAC 95	3.85	1.10	81.3	28.0	9.5	76.5	9.1	3.85	1124	19.12
.	LSD	0.51	.	.	.	.	3.6	0.8	.	565	1.26

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

VARIETY CODE	VARIETY NAME	NITROGEN (%)	FREE GOSSYPOL (%)	A --- (mm2/mm3) ---	D	I	M (%)	p (microns)	w (mg/in)	t (microns)
953	SG 125	3.41	0.79	492	37.3	1.90	78	48.50	3.82	2.5
1099	DPL NuCotn 35	3.47	0.77	.	.	.	.	.	.	.
915	SUREGROW 501	3.46	0.93	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.27	0.83	446	27.8	1.72	85	48.24	4.18	2.8
971	STV 474	3.48	1.04	.	.	.	.	.	.	.
893	STV LA 887	3.35	0.79	492	32.0	1.80	82	45.60	3.58	2.5
773	ACALA MAXXA	3.51	0.62	487	30.5	1.77	84	45.66	3.63	2.5
1095	DPL 5111	3.32	0.82	464	30.0	1.76	83	47.68	3.98	2.6
919	DP 5409	3.37	0.86	.	.	.	.	.	.	.

1998 National Cotton Variety Test

1070	GC 120	3.59	0.93	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.11	0.68	.	.	.	.	.	.	.
649	DELTAPINE 90	3.01	0.77	.	.	.	.	.	.	.
1102	DPL 5415 RR	3.25	0.67	.	.	.	.	.	.	.
1010	OA 36	3.25	0.68	.	.	.	.	.	.	.
1072	GC 303	3.26	0.78	.	.	.	.	.	.	.
1016	SG 404	3.35	0.94	.	.	.	.	.	.	.
1101	DPL 5305	3.39	0.72	.	.	.	.	.	.	.
689	DELTAPINE 50	3.30	0.82	.	.	.	.	.	.	.
788	ACALA 1517-91	3.37	0.67	479	26.8	1.70	86	44.41	3.59	2.6
1073	MAC 95	3.14	0.76	.	.	.	.	.	.	.
.	LSD	0.21	0.11	.	.	0.43	.	.	.	.

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 (%)
1095	DPL 5111	1692	4.88	37.9	11.0	119	1.13	0.55	203	6.3
893	STV LA 887	1479	5.62	37.5	12.3	141	1.21	0.58	223	6.8
953	SG 125	1435	4.76	37.4	11.3	122	1.18	0.57	198	7.5
1094	DPL NuCotn 33B	1413	4.41	35.3	9.3	135	1.22	0.56	217	6.8
1074	SG 180	1360	4.58	35.6	10.9	133	1.17	0.57	207	5.8
971	STV 474	1274	4.44	39.2	11.3	126	1.15	0.57	209	6.4
1100	AGRIPRO HS 46	1271	4.97	37.1	11.3	133	1.17	0.58	214	7.5
1078	OA 63	1247	4.92	37.2	10.3	132	1.14	0.55	230	5.6
990	SS 9506	1170	4.88	37.2	10.7	132	1.17	0.57	224	7.3
1070	GC 120	1144	4.67	38.3	12.1	124	1.16	0.57	205	6.8
919	DP 5409	1125	4.21	37.3	10.0	120	1.15	0.56	207	6.6
1099	DPL NuCotn 35	1036	4.73	38.6	10.7	123	1.10	0.55	203	6.0
1098	ACALA B 8073	1010	5.15	35.7	11.7	135	1.18	0.57	225	5.8

1009	NU 33 B	972	4.65	35.2	10.4	128	1.17	0.57	216	7.3
1097	PAYMASTER PM 1560 BG	936	4.90	36.7	11.5	153	1.19	0.59	240	5.4
857	DELTAPINE 5415	910	4.42	36.1	9.8	121	1.17	0.55	211	6.9
935	HY 39	901	4.80	35.3	.	129	1.19	0.56	213	5.4
578	PAYMASTER HS 26	829	5.44	33.2	11.9	132	1.14	0.57	245	6.8
1096	PAYMASTER PM 1220 RR	769	5.67	35.2	12.5	158	1.21	0.59	244	5.3
773	ACALA MAXXA	638	5.00	37.6	12.6	156	1.19	0.59	267	6.0
.	LSD	237	0.48	.	.	11	0.02	0.03	.	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)	E	COLORIMETER		SEED YIELD (lb/ac)	OIL (%)	
							HUNTER'S Rd	MICRONAIRE b (Reading)			
1095	DPL 5111	4.60	1.10	82.5	28.0	9.8	78.0	7.6	4.85	2774	19.67
893	STV LA 887	4.45	1.20	84.1	31.5	10.0	76.0	8.4	4.55	2461	20.48
953	SG 125	4.75	1.15	84.2	27.0	9.8	74.0	8.4	4.90	2405	19.53
1094	DPL NuCotn 33B	4.60	1.20	84.2	31.0	9.9	78.5	7.2	4.70	2590	17.23
1074	SG 180	4.85	1.15	83.4	29.5	9.6	78.5	7.4	4.95	2465	19.86
971	STV 474	5.25	1.10	83.2	29.0	9.8	73.5	8.2	5.50	1980	20.19
1100	AGRIPRO HS 46	4.90	1.20	84.4	31.0	10.0	76.0	7.8	5.10	2168	20.79
1078	OA 63	4.65	1.15	82.4	30.5	9.6	76.5	7.6	4.85	2106	21.05
990	SS 9506	4.95	1.15	83.6	30.0	10.0	78.0	8.0	5.05	1970	20.10
1070	GC 120	4.75	1.15	84.6	30.0	10.0	76.5	7.9	4.70	1848	19.82
919	DP 5409	4.80	1.10	83.1	30.5	10.0	77.0	7.5	4.95	1890	19.47
1099	DPL NuCotn 35	4.70	1.10	82.6	28.0	9.5	75.0	7.9	5.05	1649	19.64
1098	ACALA B 8073	4.85	1.15	82.9	31.5	9.4	74.0	7.8	5.00	1816	20.18
1009	NU 33 B	4.90	1.10	83.1	30.5	10.0	78.0	6.9	5.15	1800	19.85
1097	PAYMASTER PM 1560 BG	4.70	1.15	83.7	31.5	9.6	76.5	7.9	4.70	1615	21.30
857	DELTAPINE 5415	4.70	1.20	83.8	29.0	9.9	79.0	7.6	4.85	1611	17.33
935	HY 39	4.95	1.15	82.7	30.5	9.5	74.5	8.0	5.00	1651	20.34
578	PAYMASTER HS 26	4.90	1.10	83.2	32.5	10.0	76.0	7.6	4.95	1668	20.40
1096	PAYMASTER PM 1220 RR	4.65	1.20	84.5	32.5	9.5	76.0	7.7	4.75	1413	20.80
773	ACALA MAXXA	4.05	1.20	84.2	34.5	9.7	75.5	7.9	4.00	1058	18.84
.	LSD	0.36	.	.	.	.	3.4	0.6	.	452	0.73

		-----AREALOMETER DATA-----													
VARIETY CODE	VARIETY NAME	FREE NITROGEN (%)	FREE GOSSYPOL (%)	A		D		M		p		w		t	
				---(mm2/mm3)---		I	(%)	(microns)	(mg/in)	(microns)	(microns)	(microns)			
1095	DPL 5111	3.36	0.73	.	.	.	.	.	.	.	.	.	.	.	.
893	STV LA 887	3.49	0.89	435	21.3	1.58	90	45.62	4.05	2.9					
953	SG 125	3.45	0.69	417	23.5	1.63	89	48.86	4.53	3.0					
1094	DPL NuCotn 33B	3.19	0.69	.	.	.	.	.	.	.	.	.	.	.	.
1074	SG 180	3.23	0.82	.	.	.	.	.	.	.	.	.	.	.	.
971	STV 474	3.69	0.97	.	.	.	.	.	.	.	.	.	.	.	.
1100	AGRIPRO HS 46	3.66	0.70	.	.	.	.	.	.	.	.	.	.	.	.
1078	OA 63	3.40	0.75	.	.	.	.	.	.	.	.	.	.	.	.
990	SS 9506	3.38	0.90	.	.	.	.	.	.	.	.	.	.	.	.
1070	GC 120	3.70	0.98	.	.	.	.	.	.	.	.	.	.	.	.
919	DP 5409	3.51	0.75	.	.	.	.	.	.	.	.	.	.	.	.
1099	DPL NuCotn 35	3.71	0.64	.	.	.	.	.	.	.	.	.	.	.	.
1098	ACALA B 8073	3.40	0.78	.	.	.	.	.	.	.	.	.	.	.	.
1009	NU 33 B	3.35	0.87	.	.	.	.	.	.	.	.	.	.	.	.
1097	PAYMASTER PM 1560 BG	3.53	0.65	.	.	.	.	.	.	.	.	.	.	.	.
857	DELTAPINE 5415	3.24	0.74	.	.	.	.	.	.	.	.	.	.	.	.
935	HY 39	3.44	0.80	.	.	.	.	.	.	.	.	.	.	.	.
578	PAYMASTER HS 26	3.42	0.64	415	27.0	1.70	86	51.39	4.79	3.0					
1096	PAYMASTER PM 1220 RR	3.55	0.50
773	ACALA MAXXA	3.84	0.56	478	21.0	1.58	90	41.39	3.37	2.6					
.	LSD	0.16	0.09	.	.	0.33

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

 Questions or comments to: ekeene@ag.gov

United States Department of Agriculture

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1998 National Cotton Variety Test

615	PIMA S-7	4.14	1.31	87.9	46.1	10.8	64.9	10.6	4.12	1644
22.96										
974	CONQUISTADOR	4.11	1.30	87.7	46.1	10.8	65.5	11.1	4.08	1679
23.50										
1108	OA 325 (DP-HTO)	4.28	1.30	86.9	44.5	11.0	67.2	10.4	4.10	1448
22.99										
1113	PHY 57	4.04	1.32	88.4	48.3	11.3	66.8	10.2	4.00	1557
23.51										
1054	NM SI 1331	3.75	.	.	.	.	.	.	.	.
22.39										
471	PIMA S-6	4.13	1.31	86.9	40.4	10.6	64.4	11.3	4.11	1193
22.46										
972	ORO BLANCO	4.20	1.30	87.6	45.3	11.0	65.0	10.8	4.13	1234
22.77										
975	CHANEY RANCH 252	4.17	1.31	87.5	44.3	11.0	65.4	10.6	4.13	1150
22.42										
.	LSD	0.22	0.02	0.7	2.5	0.4	1.8	0.8	0.17	219
0.62										

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w	
CODE	NAME	(%)	(%)	---	(mm ² /mm ³)---	I	(%)	(microns)	(mg/in)
1109	OA 361 (DP-WHITE)	3.75	.	.	.	.	.	.
0.77									
1110	NMSI 1601	3.71	.	.	.	.	.	.
0.64									
977	DPL 9911	3.57	.	.	.	.	.	.
0.54									
1111	NMSI 1708	3.72	.	.	.	.	.	.
0.72									
615	PIMA S-7	3.63	0.71	482	15.5	1.44	95	37.61	3.03
2.7									
974	CONQUISTADOR	3.59	0.80	464	8.5	1.26	102	33.95	2.83
3.1									
1108	OA 325 (DP-HTO)	3.82							

1998 National Cotton Variety Test

0.60	.	.	.	.	.	.	.	.	.
1113	PHY 57		3.78							
0.74	.	.	.	.	.	.	.	.	.
1054	NM SI 1331		3.61							
0.65	.	.	.	.	.	.	.	.	.
471	PIMA S-6		3.61	0.68	503	23.3	1.62	89	40.49	3.12
2.5										
972	ORO BLANCO		3.65							
0.70	.	.	.	.	.	.	.	.	.
975	CHANEY RANCH 252		3.86							
0.64	.	.	.	.	.	.	.	.	.
.	LSD		0.14							
0.08	.	.	.	.	.	.	.	.	.

1998 NATIONAL COTTON VARIETY
TEST
INDIVIDUAL COMPONENTS FOR PIMA
REGION

BOLL SIZE, GRAM PER BOLL INDEX		LINT PERCENT		SEED
NMSI 1601	3.75	OA 325 (DP-HTO)	39.3	CHANEY RANCH 252
13.6				
NMSI 1708	3.73	PIMA S-6	38.4	ORO BLANCO
13.5				
ORO BLANCO	3.62	PIMA S-7	37.3	PIMA S-6
13.2				
NM SI 1331	3.61	ORO BLANCO	37.2	PHY 57
13.0				
CHANEY RANCH 252	3.53	CHANEY RANCH 252	37.2	OA 325 (DP-HTO)
12.4				
PHY 57	3.53	CONQUISTADOR	37.1	NMSI 1601
12.2				
OA 325 (DP-HTO)	3.51	PHY 57	36.8	PIMA S-7
12.1				

DPL 9911 11.7	3.41	NMSI 1601	.	DPL 9911
PIMA S-6 11.5	3.29	NMSI 1708	.	NM SI 1331
CONQUISTADOR 11.5	3.17	NM SI 1331	.	CONQUISTADOR
PIMA S-7 11.1	3.16	DPL 9911	.	NMSI 1708
OA 361 (DP-WHITE) 10.3	3.09	OA 361 (DP-WHITE)	.	OA 361 (DP-WHITE)
LSD 0.5	0.35	LSD	1.6	LSD

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

PHY 57 48.3	1.32	PHY 57	88.4	PHY 57
CHANEY RANCH 252 46.1	1.31	PIMA S-7	87.9	PIMA S-7
PIMA S-6 46.1	1.31	CONQUISTADOR	87.7	CONQUISTADOR
PIMA S-7 45.3	1.31	ORO BLANCO	87.6	ORO BLANCO
ORO BLANCO 44.5	1.30	CHANEY RANCH 252	87.5	OA 325 (DP-HTO)
OA 325 (DP-HTO) 44.3	1.30	OA 325 (DP-HTO)	86.9	CHANEY RANCH 252
CONQUISTADOR 40.4	1.30	PIMA S-6	86.9	PIMA S-6
NMSI 1601 1601	.	NMSI 1601	.	NMSI
DPL 9911 9911	.	DPL 9911	.	DPL
NM SI 1331 1331	.	NM SI 1331	.	NM SI

NMSI 1708		NMSI 1708		NMSI	
1708	.		.		
OA 361 (DP-WHITE)		OA 361 (DP-WHITE)		OA 361 (DP-	
WHITE)	.		.		
LSD	0.02	LSD	0.7	LSD	
2.5					
-----		-----			
-----		-----			
E		MICRONAIRE (SL-HVI)		COLORIMETER -	
Rd					
-----		-----			
-----		-----			
PHY 57	11.3	ORO BLANCO	4.13	OA 325 (DP-HTO)	
67.2					
ORO BLANCO	11.0	CHANEY RANCH 252	4.13	PHY 57	
66.8					
OA 325 (DP-HTO)	11.0	PIMA S-7	4.12	CONQUISTADOR	
65.5					
CHANEY RANCH 252	11.0	PIMA S-6	4.11	CHANEY RANCH 252	
65.4					
PIMA S-7	10.8	OA 325 (DP-HTO)	4.10	ORO BLANCO	
65.0					
CONQUISTADOR	10.8	CONQUISTADOR	4.08	PIMA S-7	
64.9					
PIMA S-6	10.6	PHY 57	4.00	PIMA S-6	
64.4					
NMSI 1601	.	NMSI 1601	.	NMSI	
1601	.				
DPL 9911	.	DPL 9911	.	DPL	
9911	.				
NM SI 1331	.	NM SI 1331	.	NM SI	
1331	.				
NMSI 1708	.	NMSI 1708	.	NMSI	
1708	.				
OA 361 (DP-WHITE)	.	OA 361 (DP-WHITE)	.	OA 361 (DP-	
WHITE)	.				
LSD	0.4	LSD	0.17	LSD	
1.8					

COLORIMETER - b		MICRONAIRE		STELOMETER -
E1				
PIMA S-6	11.3	OA 325 (DP-HTO)	4.28	ORO BLANCO
8.7				
CONQUISTADOR	11.1	ORO BLANCO	4.20	CHANEY RANCH 252
8.6				
ORO BLANCO	10.8	CHANEY RANCH 252	4.17	OA 361 (DP-WHITE)
8.5				
CHANEY RANCH 252	10.6	PIMA S-7	4.14	PIMA S-6
8.5				
PIMA S-7	10.6	PIMA S-6	4.13	DPL 9911
8.4				
OA 325 (DP-HTO)	10.4	CONQUISTADOR	4.11	PHY 57
8.2				
PHY 57	10.2	DPL 9911	4.05	NMSI 1601
8.2				
NMSI 1601	.	OA 361 (DP-WHITE)	4.05	OA 325 (DP-HTO)
8.1				
DPL 9911	.	PHY 57	4.04	NMSI 1708
8.0				
NM SI 1331	.	NMSI 1601	3.85	NM SI 1331
7.9				
NMSI 1708	.	NM SI 1331	3.75	CONQUISTADOR
7.9				
OA 361 (DP-WHITE)	.	NMSI 1708	3.75	PIMA S-7
7.8				
LSD	0.8	LSD	0.22	LSD
0.4				
STELOMETER - T1		FIBROGRAPH--50% S.L.		FIBROGRAPH--2.5% S.

L.

PIMA S-7 1.41	325	ORO BLANCO	0.69	NMSI 1601
OA 325 (DP-HTO) 1.41	321	NMSI 1708	0.69	CONQUISTADOR
CONQUISTADOR 1.41	320	OA 361 (DP-WHITE)	0.69	ORO BLANCO
PHY 57 1.40	319	PHY 57	0.69	PIMA S-7
CHANEY RANCH 252 1.40	310	CHANEY RANCH 252	0.69	PHY 57
NMSI 1601 1.40	309	CONQUISTADOR	0.68	OA 325 (DP-HTO)
ORO BLANCO 1.39	307	PIMA S-6	0.68	CHANEY RANCH 252
NMSI 1708 1.39	305	PIMA S-7	0.68	NMSI 1708
NM SI 1331 1.39	304	NMSI 1601	0.68	OA 361 (DP-WHITE)
PIMA S-6 1.39	303	DPL 9911	0.68	DPL 9911
OA 361 (DP-WHITE) 1.39	301	NM SI 1331	0.68	NM SI 1331
DPL 9911 1.39	299	OA 325 (DP-HTO)	0.68	PIMA S-6
LSD 0.02	12	LSD	0.01	LSD

YARN TENACITY
mm3)

PHY 57 190

AREALOMETER - A (mm2/mm3)

PIMA S-6 503

AREALOMETER - D (mm2/

PIMA S-6

23.3				
CONQUISTADOR	189	PIMA S-7	482	PIMA S-7
15.5				
PIMA S-7	185	CONQUISTADOR	464	CONQUISTADOR
8.5				
OA 361 (DP-WHITE)	185	PHY 57	.	PHY
57	.			
NMSI 1601	185	OA 361 (DP-WHITE)	.	OA 361 (DP-
WHITE)	.			
ORO BLANCO	182	NMSI 1601	.	NMSI
1601	.			
DPL 9911	182	ORO BLANCO	.	ORO
BLANCO	.			
CHANEY RANCH 252	181	DPL 9911	.	DPL
9911	.			
OA 325 (DP-HTO)	180	CHANEY RANCH 252	.	CHANEY RANCH
252	.			
NMSI 1708	179	OA 325 (DP-HTO)	.	OA 325 (DP-
HTO)	.			
NM SI 1331	178	NMSI 1708	.	NMSI
1708	.			
PIMA S-6	177	NM SI 1331	.	NM SI
1331	.			
LSD	4	LSD	.	
LSD	.			

----- ----- AREALOMETER - I (Microns) ----- -----		----- ----- AREALOMETER - M (PERCENT) ----- -----		AREALOMETER - p
--	--	---	--	-----------------

PIMA S-6	1.62	CONQUISTADOR	102	PIMA S-6
40.49				
PIMA S-7	1.44	PIMA S-7	95	PIMA S-7
37.61				
CONQUISTADOR	1.26	PIMA S-6	89	CONQUISTADOR
33.95				

PHY 57	.	PHY 57	.	PHY
57	.			
OA 361 (DP-WHITE)	.	OA 361 (DP-WHITE)	.	OA 361 (DP-
WHITE)	.			
NMSI 1601	.	NMSI 1601	.	NMSI
1601	.			
ORO BLANCO	.	ORO BLANCO	.	ORO
BLANCO	.			
DPL 9911	.	DPL 9911	.	DPL
9911	.			
CHANEY RANCH 252	.	CHANEY RANCH 252	.	CHANEY RANCH
252	.			
OA 325 (DP-HTO)	.	OA 325 (DP-HTO)	.	OA 325 (DP-
HTO)	.			
NMSI 1708	.	NMSI 1708	.	NMSI
1708	.			
NM SI 1331	.	NM SI 1331	.	NM SI
1331	.			
LSD	.	LSD	.	
LSD	.			

 AREALOMETER - w (MG/INCH)
 (PERCENT)

 AREALOMETER - t (MICRONS)

OIL

PIMA S-6	3.12	CONQUISTADOR	3.1	PHY 57
23.51				
PIMA S-7	3.03	PIMA S-7	2.7	CONQUISTADOR
23.50				
CONQUISTADOR	2.83	PIMA S-6	2.5	OA 325 (DP-HTO)
22.99				
PHY 57	.	PHY 57	.	PIMA S-7
22.96				
OA 361 (DP-WHITE)	.	OA 361 (DP-WHITE)	.	OA 361 (DP-WHITE)
22.80				
NMSI 1601	.	NMSI 1601	.	ORO BLANCO
22.77				

1998 National Cotton Variety Test

ORO BLANCO	.	ORO BLANCO	.	PIMA S-6
22.46				
DPL 9911	.	DPL 9911	.	CHANEY RANCH 252
22.42				
CHANEY RANCH 252	.	CHANEY RANCH 252	.	NM SI 1331
22.39				
OA 325 (DP-HTO)	.	OA 325 (DP-HTO)	.	NMSI 1601
22.36				
NMSI 1708	.	NMSI 1708	.	DPL 9911
21.54				
NM SI 1331	.	NM SI 1331	.	NMSI 1708
21.42				
LSD	.	LSD	.	LSD
0.62				

 NITROGEN (PERCENT) FREE GOSSYPOL (PERCENT) SEED YIELD (LB/
 ACRE)

CHANEY RANCH 252	3.86	CONQUISTADOR	0.80	CONQUISTADOR
1679				
OA 325 (DP-HTO)	3.82	OA 361 (DP-WHITE)	0.77	PIMA S-7
1644				
PHY 57	3.78	PHY 57	0.74	PHY 57
1557				
OA 361 (DP-WHITE)	3.75	NMSI 1708	0.72	OA 325 (DP-HTO)
1448				
NMSI 1708	3.72	PIMA S-7	0.71	ORO BLANCO
1234				
NMSI 1601	3.71	ORO BLANCO	0.70	PIMA S-6
1193				
ORO BLANCO	3.65	PIMA S-6	0.68	CHANEY RANCH 252
1150				
PIMA S-7	3.63	NM SI 1331	0.65	OA 361 (DP-
WHITE)				
NM SI 1331	3.61	CHANEY RANCH 252	0.64	NMSI

SAFFORD, AZ . 2.87 40.1 11.4 180 1.35 0.65 334
9.0

SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

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

MARANA, AZ 23.48		4.03	1.30	87.8	41.7	10.5	64.3	11.0	4.00	1903
LAS CRUCES, NM 22.34		4.06	.	.	.	.	.	.	.	.
SHAFTER, CA 22.41		4.09	1.31	87.2	46.2	11.0	67.0	10.2	4.11	.
COALINGA, CA 22.71		4.19	1.30	87.2	46.0	11.1	67.4	10.6	4.15	.
W SIDE FIELD STATION, CA 23.37		4.21	1.31	87.7	42.8	10.6	62.4	10.8	4.09	1296
MARICOPA, AZ 22.98		4.12	1.33	89.0	45.7	11.0	66.7	11.2	4.17	1280
FIREBAUGH, CA 23.27		4.10	1.30	87.2	46.6	10.8	64.2	11.8	4.04	.
SAFFORD, AZ 21.54		3.97	1.30	86.5	43.0	10.9	66.3	11.5	3.98	.

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w
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t

CODE (microns)	NAME	(%)	(%)	--- (mm ² /mm ³) ---	I	(%)	(microns)	(mg/in)	
MARANA, AZ 2.7		3.62	0.87	477	17.5	1.50	94	39.57	3.25
LAS CRUCES, NM 2.6		3.65	0.64	492	16.3	1.46	95	37.32	2.94
SHAFTER, CA 2.6		3.76	0.63	492	15.8	1.45	95	37.23	2.95
COALINGA, CA 2.8		3.79	0.67	473	12.0	1.36	99	36.08	2.95
W SIDE FIELD STATION, CA 2.9		3.59	0.78	477	9.5	1.29	102	33.79	2.74
MARICOPA, AZ 2.8		3.57	0.77	480	16.7	1.46	94	38.13	3.07
FIREBAUGH, CA 2.6		3.71	0.69	490	19.3	1.53	92	39.33	3.11
SAFFORD, AZ 2.4		3.73	0.81	526	21.5	1.58	91	37.74	2.78

REG=61 SUBREGION=PIMA HIGH
ELEVATION

STELOMETER		LINT	BOLL	YARN			DIGITAL FIBROGRAPH		
VARIETY	VARIETY	YIELD	SIZE	LINT	SEED	TENACITY	2.5% S.L.	50% S.L.	T1
CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)
615 8.1	PIMA S-7	1175	3.19	38.1	11.3	183	1.37	0.66	327
1109 8.7	OA 361 (DP-WHITE)	1152	2.90	39.3	10.6	184	1.36	0.66	318
1110 8.2	NMSI 1601	1045	3.75	.	12.2	185	1.41	0.68	309

471	PIMA S-6	4.48	1.30	86.3	39.0	11.0	65.5	12.0	4.15	.
21.99										
1108	OA 325 (DP-HTO)	4.30	1.30	86.3	43.5	11.0	66.5	11.5	4.20	.
22.05										
1054	NM SI 1331	3.75	.	.	.	.	.	.	.	.
22.39										
.	LSD	0.22	0.02	0.7	2.5	0.4	1.8	0.8	0.17	234
0.62										

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w	
CODE	NAME	(%)	(%)	---	---	I	(%)	(microns)	(mg/in)
(microns)				(mm2/mm3)					
615	PIMA S-7	3.56	0.69	509	18.9	1.52	93	37.53	2.86
2.5									
1109	OA 361 (DP-WHITE)	3.77	.	.	.	.	.	.	.
0.89									
1110	NMSI 1601	3.71	.	.	.	.	.	.	.
0.64									
977	DPL 9911	3.57	.	.	.	.	.	.	.
0.54									
974	CONQUISTADOR	3.62	.	.	.	.	.	.	.
0.79									
1111	NMSI 1708	3.72	.	.	.	.	.	.	.
0.72									
471	PIMA S-6	3.65	.	.	.	.	.	.	.
0.63									
1108	OA 325 (DP-HTO)	3.83	.	.	.	.	.	.	.
0.64									
1054	NM SI 1331	3.61	.	.	.	.	.	.	.
0.65									
.	LSD	0.14	.	.	.	.	.	.	.

0.08

REG=62 SUBREGION = PIMA LOW
ELEVATION

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

974	CONQUISTADOR	1071	3.16	37.2	11.5	191	1.40	0.68	323
7.8									
615	PIMA S-7	1038	3.01	37.2	12.1	179	1.41	0.68	327
7.4									
471	PIMA S-6	795	3.17	38.1	13.4	178	1.40	0.68	311
8.4									
.									
LSD									

SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

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

974	CONQUISTADOR	4.00	1.30	88.3	45.5	11.0	66.3	11.0	3.98	1795
-----	--------------	------	------	------	------	------	------	------	------	------

23.73	615	PIMA S-7	4.25	1.33	89.0	45.5	10.8	65.8	11.0	4.20	1719
23.33	471	PIMA S-6	3.98	1.33	87.9	40.0	10.5	64.5	11.3	4.08	1259
22.64											
LSD			.	.	.	.	.	.	.	.	.

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w
t	CODE	NAME	(%)	(%)	--- (mm ² /mm ³) ---	I	(%)	(microns) (mg/in)
974	CONQUISTADOR	3.46	0.88	464	8.5	1.26	102	33.95 2.83
3.1	615	PIMA S-7	3.66	0.80	475	17.9	1.50	93 39.76 3.26
2.7	471	PIMA S-6	3.67	0.78	503	23.3	1.62	89 40.49 3.12
2.5								
LSD			.	.	.	.	.	.

REG=63 SUBREGION = PIMA SAN JOAQUIN

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

CODE (%)	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)
1113 8.2	PHY 57	878	3.53	36.8	13.0	190	1.40	0.69	319
1108 7.9	OA 325 (DP-HTO)	878	3.46	39.3	13.4	181	1.40	0.67	318
615 8.1	PIMA S-7	865	3.08	37.3	13.1	187	1.40	0.68	328
974 7.9	CONQUISTADOR	836	3.11	36.8	12.4	187	1.41	0.68	318
972 8.7	ORO BLANCO	730	3.62	37.2	13.5	182	1.41	0.69	307
471 8.5	PIMA S-6	726	3.15	39.0	13.8	176	1.39	0.68	300
975 8.6	CHANEY RANCH 252	715	3.53	37.2	13.6	181	1.39	0.69	310
LSD	.	.	.	.	.	.	.	.	.

SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

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

1113 23.51	PHY 57	4.04	1.32	88.4	48.3	11.3	66.8	10.2	4.00	1557
1108 23.16	OA 325 (DP-HTO)	4.26	1.30	86.9	44.5	11.0	67.2	10.4	4.10	1448
615 22.79	PIMA S-7	4.09	1.30	87.3	46.4	10.8	64.5	10.3	4.09	1495

974	CONQUISTADOR	4.20	1.30	87.4	46.4	10.6	65.1	11.1	4.14	1446
23.46										
972	ORO BLANCO	4.20	1.30	87.6	45.3	11.0	65.0	10.8	4.13	1234
22.77										
471	PIMA S-6	4.08	1.30	86.2	40.7	10.7	64.3	11.3	4.13	1061
22.46										
975	CHANEY RANCH 252	4.17	1.31	87.5	44.3	11.0	65.4	10.6	4.13	1150
22.42										

LSD

-----AREALOMETER

DATA-----

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

1113	PHY 57	3.78						
0.74	.	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	3.82						
0.61	.	.	.	.	.	.	.	.
615	PIMA S-7	3.68	0.69	483	14.1	1.41	97	36.60 2.94
2.7								
974	CONQUISTADOR	3.64						
0.79	.	.	.	.	.	.	.	.
972	ORO BLANCO	3.65						
0.70	.	.	.	.	.	.	.	.
471	PIMA S-6	3.58						
0.67	.	.	.	.	.	.	.	.
975	CHANEY RANCH 252	3.86						
0.64	.	.	.	.	.	.	.	.
LSD	.	.	.	.	.	.	.	.

1998 NATIONAL COTTON VARIETY
TEST
INDIVIDUAL LOCATION
SUMMARIES

LOCATION=LAS CRUCES,
NM

STELOMETER		LINT	BOLL	YARN			DIGITAL FIBROGRAPH			
VARIETY	VARIETY	YIELD	SIZE	LINT	SEED	TENACITY	2.5% S.L.	50% S.L.	T1	
E1	CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)
	(%)									
7.7	615	PIMA S-7	1175	3.55	.	11.1	190	1.40	0.69	311
8.5	1109	OA 361 (DP-WHITE)	1152	3.09	.	10.3	185	1.39	0.69	301
8.2	1110	NMSI 1601	1045	3.75	.	12.2	185	1.41	0.68	309
8.4	977	DPL 9911	1014	3.41	.	11.7	182	1.39	0.68	299
7.9	974	CONQUISTADOR	988	3.25	.	10.4	192	1.41	0.69	323
8.0	1111	NMSI 1708	987	3.73	.	11.1	179	1.39	0.69	305
8.7	471	PIMA S-6	894	3.66	.	12.1	179	1.37	0.69	297
8.8	1108	OA 325 (DP-HTO)	886	3.55	.	11.4	178	1.39	0.69	330
7.9	1054	NM SI 1331	875	3.61	.	11.5	178	1.39	0.68	304
0.8	.	LSD	237	0.30	.	.	7	0.01	0.02	.

SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

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

615	PIMA S-7	4.10	.	.	.	.	.	.	.	.
22.93										
1109	OA 361 (DP-WHITE)	4.05	.	.	.	.	.	.	.	.
22.80										
1110	NMSI 1601	3.85	.	.	.	.	.	.	.	.
22.36										
977	DPL 9911	4.05	.	.	.	.	.	.	.	.
21.54										
974	CONQUISTADOR	4.00	.	.	.	.	.	.	.	.
23.21										
1111	NMSI 1708	3.75	.	.	.	.	.	.	.	.
21.42										
471	PIMA S-6	4.65	.	.	.	.	.	.	.	.
22.12										
1108	OA 325 (DP-HTO)	4.35	.	.	.	.	.	.	.	.
22.32										
1054	NM SI 1331	3.75	.	.	.	.	.	.	.	.
22.39										
.	LSD	0.48
1.85										

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w
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471	PIMA S-6	.	2.87	41.1	12.2	183	1.37	0.67	323
10.0									
615	PIMA S-7	.	2.84	38.1	11.6	176	1.33	0.62	343
8.5									
974	CONQUISTADOR	.	2.81	39.4	11.0	186	1.37	0.67	333
8.6									
1108	OA 325 (DP-HTO)	.	3.15	42.5	11.1	174	1.34	0.65	336
9.3									
1109	OA 361 (DP-WHITE)	.	2.72	39.3	11.0	183	1.33	0.64	336
8.9									

 SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

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

471	PIMA S-6	4.30	1.30	86.3	39.0	11.0	65.5	12.0	4.15	.
21.87										
615	PIMA S-7	3.65	1.30	86.6	43.0	10.5	64.5	12.0	3.80	.
19.66										
974	CONQUISTADOR	3.95	1.30	86.6	45.0	11.0	65.5	12.0	4.05	.
22.12										
1108	OA 325 (DP-HTO)	4.25	1.30	86.3	43.5	11.0	66.5	11.5	4.20	.
21.78										
1109	OA 361 (DP-WHITE)	3.70	1.30	86.7	44.5	11.0	69.5	10.0	3.70	.
22.28										

-----AREALOMETER

DATA-----

FREE		NITROGEN GOSSYPOL		A	D	M	p	w
VARIETY	VARIETY							

. LSD 0.32 2.8 0.5 . 654
 1.38

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w
CODE	NAME	(%)	(%)	---	(mm ² /mm ³)---	I	(%)	(microns) (mg/in)
974	CONQUISTADOR	3.35	0.87	464	8.5	1.26	102	33.95 2.83
3.1								
615	PIMA S-7	3.62	0.73	474	18.3	1.51	93	39.96 3.26
2.7								
471	PIMA S-6	3.75	0.70	503	23.3	1.62	89	40.49 3.12
2.5								
. LSD		0.26	0.17	.	.			
0.28								

LOCATION=SHAFTER,
 CA

STELOMETER	LINT	BOLL	YARN	DIGITAL FIBROGRAPH			
VARIETY	YIELD	SIZE	LINT	SEED TENACITY	2.5% S.L.	50% S.L.	T1
CODE	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches) (mN/tex)
974	CONQUISTADOR	999	.	.	.	188	1.39 0.69 316

975	CHANEY RANCH 252	4.20	1.30	87.0	43.5	11.0	68.0	8.9	4.30	.
21.88										
.	LSD	0.45	.	.	.	.	2.8	1.9	.	.
1.51										

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w
t	CODE	NAME	(%)	(%)	--- (mm ² /mm ³) ---	I	(%)	(microns) (mg/in)
(microns)								

974	CONQUISTADOR	3.71						
0.70	.	.	.	.	.	.	.	.
1108	OA 325 (DP-HTO)	3.86						
0.57	.	.	.	.	.	.	.	.
615	PIMA S-7	3.70	0.62	492	15.8	1.45	95	37.23 2.95
2.6								
1113	PHY 57	3.91						
0.73	.	.	.	.	.	.	.	.
471	PIMA S-6	3.64						
0.63	.	.	.	.	.	.	.	.
972	ORO BLANCO	3.73						
0.62	.	.	.	.	.	.	.	.
975	CHANEY RANCH 252	3.81						
0.54	.	.	.	.	.	.	.	.
.	LSD	0.45						
0.17	.	.	.	.	.	.	.	.

LOCATION=COALINGA,
CA

STELOMETER		LINT	BOLL	YARN		DIGITAL FIBROGRAPH			
VARIETY	VARIETY	YIELD	SIZE	LINT	SEED	TENACITY	2.5% S.L.	50% S.L.	T1
E1		(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)
CODE	NAME								
1113	PHY 57	1013	.	.	.	195	1.43	0.70	336
7.9									
615	PIMA S-7	865	.	.	.	199	1.41	0.69	352
7.1									
1108	OA 325 (DP-HTO)	846	.	.	.	186	1.40	0.68	316
7.8									
974	CONQUISTADOR	805	.	.	.	190	1.38	0.68	317
7.3									
975	CHANEY RANCH 252	788	.	.	.	186	1.40	0.69	324
8.0									
972	ORO BLANCO	765	.	.	.	187	1.41	0.69	308
7.5									
471	PIMA S-6	743	.	.	.	178	1.38	0.68	302
7.9									
.	LSD	87	.	.	.	9	0.03	0.03	.
1.3									

SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

SEED		2.5%	UNIFO-	STRE-	COLORIMETER					
VARIETY	VARIETY	MICRONAIRE	S.L.	MITY	NGTH	HUNTER'S			YIELD	
OIL		(Reading)	(in.)	(%)	(g/tex)	E	Rd	b	(Reading)	(lb/ac)
CODE	NAME									
1113	PHY 57	4.10	1.30	88.5	49.5	12.0	68.5	10.5	4.10	.
23.89										
615	PIMA S-7	4.35	1.30	87.7	50.0	11.0	67.5	10.5	4.20	.

LOCATION= FIREBAUGH,
CA

STELOMETER		LINT	BOLL	YARN		DIGITAL FIBROGRAPH				
VARIETY	VARIETY	YIELD	SIZE	LINT	SEED	TENACITY	2.5% S.L.	50% S.L.	T1	
E1	CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)
	(%)									
	1108	OA 325 (DP-HTO)	749	.	.	.	181	1.41	0.67	321
	7.4									
	1113	PHY 57	737	.	.	.	195	1.39	0.69	335
	7.5									
	615	PIMA S-7	736	.	.	.	190	1.40	0.68	321
	8.0									
	972	ORO BLANCO	719	.	.	.	186	1.41	0.69	302
	8.6									
	974	CONQUISTADOR	693	.	.	.	194	1.43	0.68	321
	7.6									
	975	CHANEY RANCH 252	690	.	.	.	185	1.40	0.69	318
	8.4									
	471	PIMA S-6	661	.	.	.	182	1.40	0.69	298
	7.7									
	.	LSD	63	.	.	.	13	0.03	0.04	.
	0.8									

SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

SEED		2.5%	UNIFO-	STRE-	COLORIMETER	
VARIETY	VARIETY	MICRONAIRE	S.L.	MITY	NGTH	HUNTER'S MICRONAIRE YIELD

OIL

CODE	NAME	(Reading)	(in.)	(%)	(g/tex)	E	Rd	b	(Reading)	(lb/ac)
1108	OA 325 (DP-HTO)	4.10	.	.	.	.	.	.	.	.
23.26										
1113	PHY 57	3.90	.	.	.	.	.	.	.	.
24.26										
615	PIMA S-7	3.95	1.30	86.3	46.0	11.0	62.5	11.5	3.95	.
22.85										
972	ORO BLANCO	4.25	.	.	.	.	.	.	.	.
22.43										
974	CONQUISTADOR	4.40	1.30	87.7	49.0	10.5	65.5	12.0	4.05	.
24.36										
975	CHANEY RANCH 252	4.17	1.30	87.5	44.7	11.0	64.7	12.0	4.13	.
22.48										
471	PIMA S-6	3.90	.	.	.	.	.	.	.	.
23.24										
.	LSD	0.30	.	.	.	.	0.0	1.1	.	.
1.45										

-----AREALOMETER

DATA-----

VARIETY	VARIETY	NITROGEN	FREE GOSSYPOL	A	D	M	p	w
CODE	NAME	(%)	(%)	---	(mm ² /mm ³)---	I	(%)	(microns) (mg/in)
1108	OA 325 (DP-HTO)	3.84						
0.63	.	.	.	.	.	.	.	.
1113	PHY 57	3.75						
0.78	.	.	.	.	.	.	.	.
615	PIMA S-7	3.67	0.64	490	19.3	1.53	92	39.33 3.11
2.6								
972	ORO BLANCO	3.69						

1998 National Cotton Variety Test

0.61	.	.	.	.	.	.	.	.
974	CONQUISTADOR		3.62					
0.80	.	.	.	.	.	.	.	.
975	CHANEY RANCH 252		3.86					
0.63	.	.	.	.	.	.	.	.
471	PIMA S-6		3.54					
0.74	.	.	.	.	.	.	.	.
.	LSD		0.44					
0.17	.	.	.	.	.	.	.	.

LOCATION=W SIDE FIELD STATION,
CA

STELOMETER		LINT	BOLL	YARN			DIGITAL FIBROGRAPH		
VARIETY	VARIETY	YIELD	SIZE	LINT	SEED	TENACITY	2.5% S.L.	50% S.L.	T1
E1									
CODE	NAME	(lb/acre)	(g/boll)	PERCENT	INDEX	(mN/TEX)	(inches)	(inches)	(mN/tex)
(%)									
1108	OA 325 (DP-HTO)	939	3.46	39.3	13.4	178	1.40	0.68	331
7.7									
1113	PHY 57	909	3.53	36.8	13.0	181	1.39	0.68	300
8.2									
615	PIMA S-7	889	3.08	37.3	13.1	172	1.43	0.69	322
8.3									
974	CONQUISTADOR	847	3.11	36.8	12.4	175	1.43	0.69	317
8.4									
972	ORO BLANCO	733	3.62	37.2	13.5	172	1.41	0.69	308
9.1									
975	CHANEY RANCH 252	682	3.53	37.2	13.6	174	1.42	0.69	299
8.8									
471	PIMA S-6	680	3.15	39.0	13.8	168	1.41	0.68	301
8.7									
.	LSD	107	0.22	.	.	16	0.03	0.03	.

1.5

SL - HVI Starlab (Calibrated to USDA SL - HVI

Std.)

SEED VARIETY OIL CODE (%)	VARIETY NAME	MICRONAIRE (Reading)	2.5%	UNIFO-	STRE-	COLORIMETER				
			S.L. (in.)	MITY (%)	NGTH (g/tex)	E	HUNTER'S		MICRONAIRE (Reading)	YIELD (lb/ac)
						Rd	b			
1108 24.38	OA 325 (DP-HTO)	4.35	1.30	87.8	41.0	10.5	67.0	11.0	4.10	1448
1113 24.06	PHY 57	4.25	1.30	88.2	47.0	11.0	64.5	10.0	3.85	1557
615 22.91	PIMA S-7	4.25	1.30	87.8	42.5	10.0	61.0	10.0	4.25	1495
974 23.88	CONQUISTADOR	4.15	1.30	87.9	43.5	10.0	59.5	11.0	4.15	1446
972 23.23	ORO BLANCO	4.15	1.30	87.8	42.0	11.0	61.0	11.0	4.05	1234
975 22.73	CHANEY RANCH 252	4.00	1.35	88.3	44.5	11.0	61.5	10.5	4.00	1150
471 22.44	PIMA S-6	4.30	1.30	86.4	39.0	10.5	62.0	12.0	4.20	1061
. 1.99	LSD	0.21	.	.	.	.	5.0	1.4	.	151

-----AREALOMETER

DATA-----

VARIETY CODE (microns)	VARIETY NAME	FREE		A	D	M	p	w
		NITROGEN (%)	GOSSYPOL (%)					
				---(mm ² /mm ³)---		I	(%)	(microns) (mg/in)

1108	OA 325 (DP-HTO)	3.70	.	.	.	.	.	.	.	.
0.64	.	.	.	.	.	.	.	.	.	.
1113	PHY 57	3.49	.	.	.	.	.	.	.	.
0.71	.	.	.	.	.	.	.	.	.	.
615	PIMA S-7	3.59	0.87	477	9.5	1.29	102	33.79	2.74	
2.9										
974	CONQUISTADOR	3.39	.	.	.	.	.	.	.	.
0.99	.	.	.	.	.	.	.	.	.	.
972	ORO BLANCO	3.74
0.78
975	CHANEY RANCH 252	3.90
0.80
471	PIMA S-6	3.37
0.65
.	LSD	0.25
0.17

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

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United States Department of Agriculture

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1998 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, 1998
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 thirteenth 3-year testing cycle, beginning in 1996, the national standards were Acala Maxxa, Paymaster HS 26, Stoneville LA 887, and Suregrow 125. 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

Missouri Agricultural Experiment Station

Delta Center

Portageville, MO

Louisiana Agricultural Experiment Station

Northeast Louisiana Experiment Station

St.

Joseph, LA

Central Regional Cotton Variety Test (Upland Varieties)

Louisiana Agricultural Experiment Station

Red River Valley Experiment Station

Bossier

City, LA

Texas A&M University

Extension Center

Weslaco, TX

Main Station

College

Station, TX

Off-Station Test

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	El
Paso, TX		
	Agricultural Research Center	Pecos,
TX		

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

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

High Quality Regional Cotton Variety Test

	Alabama Agricultural Experiment Station	
	Tennessee Valley Substation	Belle
Mina, AL		
	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

Missouri Agricultural Experiment Station
Delta Center

Portageville, MO

North Carolina State University
Upper Coastal Plain Experiment Station

Rocky

Mount, NC

Texas A&M University
Texas Agricultural Experiment Station

College

Station, TX

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

Marana Experiment Station

Marana,

AZ

Off-Station Test

Yuma

Yuma, AZ

California Agricultural Experiment Station
West Side Field Station

Five

Points, CA

Safford Branch Experiment Station
Off-Station Test

Safford

(E), AZ

Safford

(P), AZ

New Mexico Agricultural Experiment Station
Off-Station Test

Las

Cruces, NM

Texas A&M University
Agricultural Research Center

El

Paso, TX

Combed-Yarn Test (American Pima Varieties)**

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

**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 180°F for 4 hours. At the end of 4 hours drying, the kernels were immediately placed in moisture-proof containers and cooled. In proceeding with the HPLC Method every effort was made to prevent the kernels from regaining moisture. The purpose of this modification was to reduce free moisture on the kernels with which the gossypol could interact and become bound to the protein thus reducing the free gossypol content. The use of this modification (starting with 1987 crop) resulted in higher estimates of free gossypol than in previous years. Free gossypol is expressed as a percentage of the mass of the kernel.

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

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

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

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

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

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

Seed index. The mass of 100 fuzzy seeds, in grams.

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:

$$(\text{ LINT YIELD/ACRE }) \times ((100 - \text{LINT\% }) / \text{ LINT\% })$$

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. El 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.***

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

United States Department of Agriculture

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