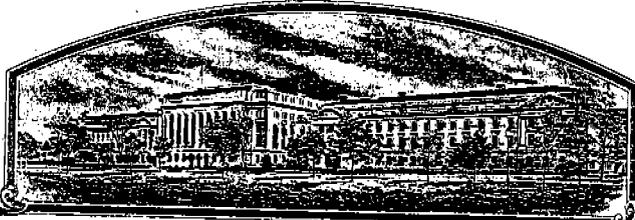


No.



7400096

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Dunn Seed Farms, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS PERMITTED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Dunn 120'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this eighth day of April in the year of our Lord one thousand nine hundred and seventy-five

Must

S. J. Rollin
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Butz
Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION Dunn 120	2. KIND NAME Cotton	FOR OFFICIAL USE ONLY	
		PV NUMBER 7400096	
3. GENUS AND SPECIES NAME Gossypium hirsutum	4. FAMILY NAME (Botanical) Malvaceae	FILING DATE 4.22.74	TIME 4:30 P.M.
		FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00	BALANCE DUE \$ - \$ - \$ -
5. DATE OF DETERMINATION Sept 1972 <i>89A 5/13/74</i>	6. NAME OF APPLICANT(S) Dunn Seed Farms, Inc.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Box 358 Lamesa, Texas 79331	8. TELEPHONE AREA CODE AND NUMBER (806) 872-8164 (806) 872-7844
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation	10. STATE OF INCORPORATION Texas	11. DATE OF INCORPORATION Jan. 22, 1968	

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Mr. James R. Dunn, Mr. Don Hill, Dr. Hosni Nabi
Box 358
Lamesa, Texas 79331

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- 13B. Exhibit B, Botanical Description of the Variety
- 13C. Exhibit C, Objective Description of the Variety
- 13D. Exhibit D, Data Indicative of Novelty
- 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

*Re: Form ltr GR 475
dated 10.11.74*

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) YES NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? YES NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? FOUNDATION REGISTERED CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

April 10, 1974
(DATE)

James R. Dunn
(SIGNATURE OF APPLICANT)

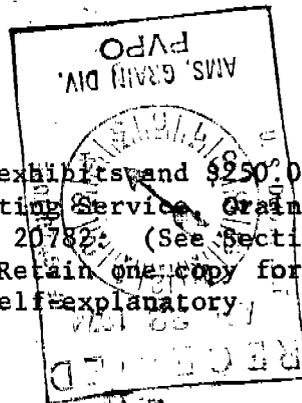
1

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory, unless noted below.



ITEM

- 5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

DUNN 120

EXHIBIT A

The Dunn Seed Farms of Lamesa requests the approval of a new commercial cotton variety Dunn 120, a variety of Upland cotton, *Gossypium hirsutum*.

The new variety stems from selections and evaluations of the strain 66'7, 237, T obtained from Texas A&M University and characterized by the resistance to bacterial blight.

The strain was introduced in 1968 as a non-commercial breeding material with a wide variability among individual plants. The steps used for developing this commercial variety are the following:

1. Approximately 120 plant selections were made in 1969 based on the following criteria:

A. Plant type:

A strong main stem, with relatively intermediate type of growth. Plants selected were taller than the average height of the plants in the strain. This was performed with an understanding that the more determinate types we have been selecting for has yielded significantly lower, so efforts were made this time to select less determinate types.

Plants selected had glabrous leaves with the understanding that such trait would lead to the production of cottons that would produce better grades and improve cleaning abilities.

B. Boll Type:

The plants selected had several boll types, however efforts were made to select plants with an average size boll, slightly elongated and relatively smooth.

C. Flowering and Maturity:

Plants selected had above average number of flowers. Flowers of such plants were nectared and had white petals and white pollen.

D. Lint percentage:

The exceptionally high lint percentage of the selected plants was a characteristic feature and added advantage. Since bolls of these selections had relatively light burrs, the gin turn out was expected to be high. Most of the varieties in the high plains suffer from a low turn out.

E. Fiber qualities:

All plants selected ranged in fiber length from $1 \frac{1}{32}$ to $1 \frac{3}{32}$ ". Most of the selections however, the majority of selections has an average of about $1 \frac{1}{16}$ " fiber length.

Strength of the plants selected were 80,000 PSI and above.

Micronaire value of all selections were between 4.0 and 4.5.

F. Disease Resistance:

Since the strains were planted in area where *Verticillium* wilt was present, only plants with no apparent symptom were selected.

During the seedling stage the leaves were inoculated with a mixture of races 1 and 2 bacterial blight obtained from Texas A&M Station at Lubbock, Texas. All susceptible plants were discarded from the nursery.

G. Seed Index and seed qualities:

Seed Index for plant selections ranged between 11-12 gm. resulting in medium size seeds.

2. The individual selections were progeny tested in 1970. Correlations between progeny data and individual plant data were studied.

Twenty progenies have proven to be superior in all of the above aspects. So, further selections were made within these progenies and superior plants were sent to Mexico in time for 1970 planting and for further increase.

3. The selections numbered 202-2-68, 202-2-75, and 202-2-78 were far superior in all of the above aspects. The progenies of the selections produced superior prolific plants with excellent cleaning qualities and a high lint percentage.

These strains were increased in Mexico in 1970 and brought back in time to enter the 1971 replicated yield trials at Welch, Texas and also the 1971 yield test at Texas Agricultural Experiment Station at Lubbock.

The strain 202-2-68 is the strain tested at Lubbock Agricultural Experiment Station.

These strains were planted along with commercial varieties in a randomized block design. Data was analysed statistically. (Data enclosed)

4. Several other non-replicated tests were conducted to evaluate the strains in several locations in Dawson, Gaines Counties in Texas and several locations in Arizona.

5. Along with yield trials the strain was increased in a well isolated farm to prevent cross pollination and contamination from other existing commercial varieties. Roguing was practiced to eliminate any previous contamination or any undesirable types or off types.
6. Testing was also conducted in 1972 at Lubbock Agricultural Experiment Station and Lamesa, Texas in yield trails. (Randomized blocks-replicated)
7. Testing was conducted in a wide scale in 1973 in Texas and Oklahoma.
8. The increase of the variety was carried out in both Welch and Midkiff. Fields were isolated for purity. Roguing of any off-types was carried out to prevent any contamination in 1972 and 1973 seasons.
9. Tests in several County Agents demonstrations are included.

As cotton breeders we feel that this variety has the following advantages over existing commercial varieties:

1. High gin turn out and high lint percent
2. High yielding abilities
3. Excellent cleaning qualities
4. Excellent disease resistance
5. Fruits on higher nodes that gives it an excellent stripping quality

Within the variety the variants that have been observed are plants with yellowish petals instead of the creamy colored petals. Also these flowers had yellow pollen. The frequency of such variants are approximately 2%.

With the exception of the above variants the plants have maintained their characteristics (both vegetative and fruiting) through four years of testing and increase.

7400096

1971

YIELD TEST

Location: Welch, Texas
Date planted: April 25, 1971
Date harvested: November 25, 1971
Replication: 4
Design: Randomized block

<u>VARIETY</u>	<u>YIELD</u>
Dunn 118	954 lbs.
Dunn 202-2-68	810 lbs.
Acala 1517 BR2	805 lbs.
Paymaster 111	798 lbs.
Dunn 56-C	780 lbs.
Dunn 202-2-78	765 lbs.
Dunn 202-2-75	520 lbs.
Lankart 57	450 lbs.

L.S.D. = 120

7400096

DUNN 120

EXHIBIT B

Botanical Description

The Dunn 120 is a cotton variety belonging to Gossypium hirsutum. The variety is adapted to the high plains of Texas. It has a strong main stem with an intermediate plant habit and growth. The leaves are glabrous (hairs as sparse as D₂ Smooth) with a light green color and with a typical upland shape. The first fruiting branch appears on about 5 inches height from the ground or about the 6th node.

The flowers are nectaried with cream color petals and pollen. The variety blooms early compared to standard commercial varieties with a determinate type fruiting branches.

The bolls are medium size, slightly elongated with storm resistance. They contain 4-5 loculus and about 34 seeds per boll. Lint percentage is estimated at 36%.

Seeds are medium sized with white fuzz and a seed index of about 11-12 gms. with light white linters.

Fiber Properties:

Length ranges between 1 1/32" to 1 1/16" with about 80 to 85,000 P.S.I.

Micronaire value ranged between 4.0 and 4.5.

Disease resistance:

- Tolerant to Verticilium wilt
- Tolerant to Nematode fusarium complex
- Resistant to Xanthomonas malvacearum

7400096

EXHIBIT B (continued)

COMPARING DUNN 120 WITH DUNN 119, CURRENTLY A
COMMERCIAL VARIETY ON THE HIGH PLAINS OF TEXAS

Plant Height: Dunn 120 is a taller plant (5 to 10 centimeters taller).

Plant type: Dunn 120 is less determinate than Dunn 119

Leaves: Glabrous in Dunn 120

Flowers: Approximately 2% of the flowers have yellowish petals
and yellow pollen.

Bolls: About the same size as Dunn 119.

Seeds: About the same size as Dunn 119.

Fiber properties: Dunn 120 is slightly shorter (.08) and slightly
slightly weaker (10,000 PSI)

Disease Resistance: Dunn 120 is more tolerant to Fusarium and Verti-
cillium wilt. Both are resistant to bacterial
blight Xanthomonas malvacearum.

Production: Higher production (may be due to disease resistance and less
determinate type).

OBJECTIVE DESCRIPTION OF VARIETY
COTTON (*GOSSYPIMUM SPP.*)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Dunn Seed Farms, Inc.		FOR OFFICIAL USE ONLY	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Box 358 Lamesa, Texas 79331		PVPO NUMBER 7400096	VARIETY NAME OR TEMPORARY DESIGNATION

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

1. SPECIES:
 1 = GOSSYPIMUM HIRSUTUM 2 = GOSSYPIMUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

<input type="text" value="0"/> EASTERN	<input type="text" value="0"/> DELTA	<input type="text" value="2"/> CENTRAL	<input type="text" value="2"/> HIGH PLAINS	<input type="text" value="0"/> EL PASO AREA
<input type="text" value="0"/> WESTERN LOW HOT VALLEYS	<input type="text" value="0"/> SAN JOAQUIN	<input type="text" value=""/> OTHER (Specify) _____		

3. MATURITY (50% Open Boll):

<input type="text" value="1"/> <input type="text" value="0"/> NO. OF DAYS EARLIER THAN	<input type="text" value="2"/> } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
<input type="text" value=""/> <input type="text" value=""/> NO. OF DAYS LATER THAN	} 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
	7 = LANKART 57 8 = OTHER (Specify) _____

4. PLANT HABIT:

<input type="text" value="2"/> 1 = SPREADING	2 = INTERMEDIATE	3 = COMPACT	<input type="text" value="1"/> 1 = FOLIAGE SPARSE	2 = DENSE
			<input type="text" value=""/> 3 = OTHER (Specify) _____	

5. PLANT HEIGHT:

<input type="text" value=""/> <input type="text" value=""/> CM. SHORTER THAN	<input type="text" value=""/> } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
<input type="text" value="0"/> <input type="text" value="2"/> CM. TALLER THAN	} 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
	7 = LANKART 57 8 = OTHER (Specify) _____

6. MAIN STEM:

<input type="text" value="3"/> 1 = LAX	2 = ASCENDING	3 = ERECT	<input type="text" value="12"/> CM. TO FIRST FRUITING BRANCH	<input type="text" value="0"/> <input type="text" value="6"/> NO. OF NODES TO FIRST FRUITING BRANCH (from cotyledonary node)
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7. LEAF: 8. LEAF PUBESCENCE:

<input type="text" value="1"/> <input type="text" value="6"/> CM. WIDTH OF WIDEST LEAVES AT MATURITY	<input type="text" value="1"/> 2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF)	1 = GLABROUS (HAIRS AS SPARSE AS D ₂ SMOOTH)	3 = PUBESCENT (STONEVILLE 213)
	4 = HEAVY PUBESCENCE (H ₁ OR H ₂)	5 = OTHER (Specify) _____	

9. LEAF COLOR:

<input type="text" value="2"/> 1 = VIRESCENT YELLOW	2 = LIGHT GREEN	3 = DARK GREEN (Acala-442)	4 = RED
5 = OTHER (Specify) _____			

10. LEAF TYPE:

<input type="text" value="1"/> 1 = NORMAL	2 = OKRA	3 = SUPER OKRA	4 = OTHER (Specify) _____
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11. FLOWER:

<input type="text" value="2"/> 1 = NECTARILESS	2 = NECTARIED
<input type="text" value="1"/> Petals: 1 = CREAM 2 = YELLOW	<input type="text" value="1"/> Pollen: 1 = CREAM 2 = YELLOW

12. FRUITING BRANCH TYPE:

<input type="text" value="3"/> 1 = CLUSTER	2 = SHORT	3 = NORMAL	<input type="text" value="2"/> 1 = DETERMINATE	2 = INDETERMINATE
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13. GOSSYPOL CONDITION:

<input type="text" value="3"/> 1 = GLANDLESS	2 = REDUCED GLANDS	3 = NORMAL GLANDS	<input type="text" value="1"/> 1 = NORMAL BUD GOSSYPOL
4 = OTHER (Specify) _____			2 = HIGH BUD GOSSYPOL

14. SEEDS:

<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="7"/> ± <input type="text" value="0"/> <input type="text" value="5"/> SEED INDEX (Fuzzy seed basis)	<input type="text" value="2"/> Seed Fuzz:	1 = SPARSE (GREGG 35)	2 = MODERATE (DPL-16)	10
		3 = HEAVY (ACALA SJ-1)	4 = OTHER (Specify) _____	

7400096

DUNN 120

EXHIBIT D

The following characteristics make the Dunn 120 a unique and novel variety:

- A. Combining tolerance to Verticillium wilt and nematode-fusarium complex with bacterial blight resistance.
 - B. Less determinate type with early maturity and above average lint percentage.
 - C. Glabrous leaves with large size bolls and good fiber qualities.
- (See data)

Dunn Seed Farms, Inc.

BREEDER OF QUALITY COTTONS

P. O. BOX 358 — 1612 NORTH DALLAS
LAMESA, TEXAS 79348

May 23, 1974

Mr. Joseph J. Higgins, Examiner
Plant Variety Protection Office
Grain Division
6525 Belcrest Road
Hyattsville, Maryland 20782

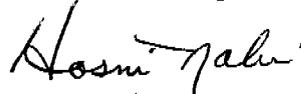
Dear Mr. Higgins:

Subject: Cotton Application No. 7400096, "Dunn 120"

Exhibit D: "Dunn 120" most closely resembles "Dunn 119" except (1) being approximately 5 to 10 centimeters taller plant, (2) being less determinate, (3) leaves glabrous, (4) having approximately .08 shorter fiber and 10,000 P.S.I. weaker fiber, and (5) having more resistance to bacterial blight (*Xanthomonas malvacearum*), more tolerance to the nematode-fusarium complex, and more tolerance to verticillium wilt.

Enclosed is our check for \$250.00 for search or examination.

Yours truly,



Dr. Hosni Nabi
Plant Breeder

HN:vee

7400096



SPECIAL TESTING AND RESEARCH LABORATORY
 2121 Dutch Valley Road, Knoxville, Tenn. 37918

Charles B. Landstreet, Pres.
 Catherine Waggoner, Secy.-Treas.

Telephone
 615-689-3101

SUMMARY SHEET

Sample I.D.	50%SL	2.5%SL	T ₁ (g/tex)	E ₁ (%)	Mic.	Y.S.	B.F.
Dunn 120	0.48	1.06	16.4	8.7	3.9	103	2266
Dunn 313	0.44	0.97	17.4	9.0	4.3	102	2244

Y.S. = Corrected Yarn Strength

B.F. = Break Factor

STARLAB MICRO-SPINNING TEST

REPORT

FOR DUNN SEED FARMS DATE 19 MARCH 1974
 MATERIAL DUNN - 120

FIBER DATA

	LENGTH			STRENGTH		MIC
	50%	2.5%	UR.	T_1 (g/tex)	E_1 (%)	(Mic. Value)
1.	.48	1.06		16.6	9.0	3.9
2.	.47	1.05		16.2	8.0	3.9
3.						
4.						
5.						
AVG.	.48	1.06		16.4	8.7	3.9

SPINNING DATA

Miniature Skein Strength (lbs.)		RESULTS
1. 53	11. 53	Yarn No. <u>22/1</u>
2. 55	12. 51	TM <u>4.5</u>
3. 51	13. 52	Corr. Yarn Strength <u>103 lbs</u>
4. 52	14. 61	Break Factor <u>2266</u>
5. 49	15. 54	*Carding Loss (%) <u>6.7%</u> *
6. 56	16. 59	
7. 50	17. 54	
8. 59	18. 55	
9. 69	19. 59	
10. 56	20. 54	

* About 60% for good clean Cotton.

*Carding Loss - Percent fiber and trash lost at card, based on hand-made lap, no cleaning before carding, and starting with completely clean card.

7400096

DUNN 120

EXHIBIT E

DECLARATION:

I declare that this variety is new and different from any existing varieties and is the product of a breeding program known to me, that the pedigree and origin are known to me and that it has not to my knowledge been sold nor marketed under any other name or designation, WHICH IS OWNED BY JAMES R. DUNN (letter 5/7/74).

Date: 4/10/1974

James R. Dunn
Signature of Breeder or Grower

Dunn Seed Farms, Inc.
Firm Name

Box 358 Lamesa, Texas 79331
ADDRESS

15. BOLLS:

Locules: 1 = 3-4
 2 = 4-5

NO. SEEDS PER BOLL

LINT PERCENT

MM. DIAMETER

Pitted: 1 = NONE
 2 = FINELY
 3 = COURSELY

GRAMS SEED COTTON PER BOLL

Breadth: 1 = BROADER AT BASE
 2 = BROADER AT MIDDLE

Type: 1 = STORMPROOF (WESTBURN 70)
 2 = STORM RESISTANT (LANKART 57)
 3 = OPEN (DELTAPINE 16)

Shape: 1 = LENGTH < WIDTH
 2 = LENGTH = WIDTH
 3 = LENGTH > WIDTH

16. BRACTEOLAS:

Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH

Teeth: 1 = FINE 2 = COURSE

Teeth: 1 = 3-4 2 = 5-7 3 = 8-10
 4 = OTHER (Specify)

17. YIELD: Compared to—

PERCENT LESS THAN

PERCENT MORE THAN

1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
 4 = PAYMASTER 111 5 = ACALA 1517-70
 6 = ACALA SJ-1 7 = LANKART 57

18. FIBER LENGTH (Complete one or more of the following and give the means):

SPAN LENGTH 50%

SPAN LENGTH 2.5%

STAPLE LENGTH 32nd INCHES

UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

MEAN LENGTH

U.H.M. LENGTH

UNIFORMITY RATIO (MEAN/U.H.M.)

19. FIBER STRENGTH AND ELONGATION:

1,000 P.S.I.

ELONGATION E₁

MICRONAIRE READING

YARN STRENGTH (Give test method) miniature spin test

STILOMETER T₁

STILOMETER T₀

20. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

VERTICILLIUM WILT

FUSARIUM WILT

ROOT KNOT NEMATODE

BACTERIAL BLIGHT (Race 1)

BACTERIAL BLIGHT (Race 2)

ASCOCHYTA BLIGHT

PHYMATOTRICHUM ROOT ROT

RHIZOCTONIA

ANTHRACNOSE

RUST

OTHER (Specify)

21. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

BOLL WEEVIL

APHID

FLEAHOPPER

LEAFWORM

FALL ARMYWORM

GRASSHOPPER

LYGUS

PINK BOLLWORM

STINKBUG

THRIP

CUTWORM

SPIDERMITE

OTHER (Specify)

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.
- (2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.