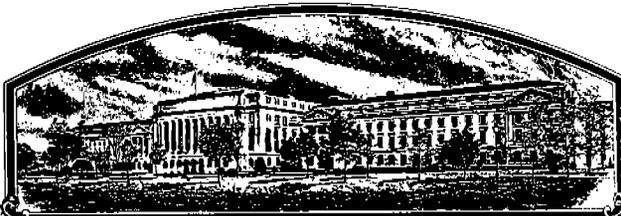


No.

7800029



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

J. H. Lambright

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 EXPORT IT, OR OFFERING IT, OR EXPORTING IT, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR OFFERING 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 CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Lambright GL-F'

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 15th day of March in the year of our Lord one thousand nine hundred and seventy-nine

Attest

Sumner K. Steele
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

J. H. Lambright
Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME Lambright GL-F	FOR OFFICIAL USE ONLY	
		PV NUMBER 7800029	
2. KIND NAME Upland Cotton Glandless Frego Bract	3. GENUS AND SPECIES NAME Genus Gossypium	FILING DATE 3-6-78	TIME 8:00 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.
		FEE RECEIVED \$250.00	DATE 3-6-78
4. FAMILY NAME (BOTANICAL) Gossypium Hirsutum L.	5. DATE OF DETERMINATION Year 1975	\$250.00	3-6-78
		\$250.00	3-6-78
6. NAME OF APPLICANT(S) J.H. Lambright	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Route 2, Slaton, Texas 79364	8. TELEPHONE AREA CODE AND NUMBER 806-996-5414	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION	11. DATE OF INCORPORATION

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

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, Novelty Statement.
- 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- 13D. Exhibit D, Additional Description of the Variety.

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

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? YES NO

16. The applicant(s) declare(s) 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) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) 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 Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

March 3, 1978
(DATE)

J.H. Lambright
(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, National Agricultural Library, Beltsville, Maryland 20705. (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.

*\$500, plus
2,500
seed
sample*

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.
- 14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

The Lambright GL-F, cotton is a glandless and frego bract variety, that has been developed by J.H. Lambright, through a single plant selection (mutation) that was discovered in a field of Lambright GL-5 cotton in year 1975.

The Lambright GL-5 variety was developed by J.H. Lambright by use of a cross made in 1966, by using the Lambright X-15-5 a 'glanded' variety, and glandless pollen from the Texas Agricultural Experiment Station at Lubbock Texas, from the CA 852, the CA 852 was developed by use of the Shafter California Oll 'glandless Acala, and the Blight Master and CA 398 breeding lines.

This variety is being maintained by use of a ^{line} [back cross] ^{letter 10/23/78 A} breeding program, that also includes selfing, single plant, and group selections that are made each year.

By using the accommodations at Iguala Mexico for winter increase, allowing two generations each year for selection and reproduction it has enabled me to establish a genetically true cotton that has proven to reproduce to a satisfactory degree of certainty the genetic characteristics of the original mutation that was discovered in the Lambright GL-5 cotton variety in 1975.

The first year of reproduction, in the 1975-76 season at Iguala, 70 seed for four (4) units, produced two (2) pounds of seed, the reproduction in 1976 from the two pounds of seed had only one (1) off type plant present, which was a glanded and normal bract plant.

The three (3) single plants selected that were grown in Iguala in the 1976-77 season, that I grew here in 1977, two of the entries with two (2), and four (4) pounds of seed had no glanded or normal bract plants

present. One (1) entry with a production of six (6) pounds of seed from Iguala increase, had only two (2) off type plants present, they were faintly speckled (glanded), and the bracts were not of a true frego bract type.

By the use of the breeding program that is being conducted, and the five (5) generations of selection and multiplication, and the removal of all off type plants, and with the uniformity and stability this cotton has proven this far, with the minimum amount of reoccurrence of off type plants, which was well below the allowable amount of tolerance in 1977, this is when I determined I had a genetically true cotton that could easily be maintained with a very minimum amount of breeding work.



STATE CERTIFIED COTTON SEED
LAMBRIGHT SEED FARM
ROUTE 2 SLATON, TEXAS 79364 PHONE 806-996-5414
AFFILIATED WITH NORTHERN STAR SEED CO.

November 6, 1978

Mr. Joseph J. Higgins
Examiner, Plant Protection Office
U.S.D.A. Agricultural Marketing Service
Livestock, Poultry, Grain & Seed Division
National Agricultural Library Building
Beltsville, Maryland 20705

Dear Mr. Higgins:

In answer to your letter of October 31, 1978, in regard to Cotton Application No. 7800029, 'Lambright GL-F'.

I would appreciate very much for you to attach this statement to Exhibit A, and make it a part of the Exhibit (or Exhibits) of this application.

Should this variety of cotton be found acceptable for Federal Plant Protection, I would like for you to be assured that the genetic characteristics, as described and named, in the Exhibits of this variety, will not be changed in the maintenance program throughout the duration of the protection period.

Yours truly,

A handwritten signature in cursive script that reads "J.H. Lambright".

J.H. Lambright
State Registered
Plant Breeder

Exhibit 13 B,

Novelty Statement and Botanical
Characteristics of the
Lambright GL-F Cotton Variety

The special novelty characteristics of the Lambright GL-F cotton variety, are the absence of the lysigenous pigmented internal gossypol bearing glands, that are obvious and clearly noticeable on all normal glanded cottons. The frego type bracts, the bracts having the 'Decedious' characteristic, that sheds up to 60 percent of the bracts at maturity. Most all upland varieties of cotton have a 2-5 phyllotaxy, the Lambright GL-F has a 3-1 phyllotaxy, with sparse foliage, that creates an open type plant, allowing the sun and light to pass through most all day.

The Lambright GL-F cotton is annual plants, medium to taller in height, medium size main stem, very erect, with determinant type growth, early maturity, glabrous or smooth leaf class, production equal or above the commercial varieties, an occasional vegetative branch, branch erect with plant, medium to small, mostly 3 and 4 lobe leaves, dark green in color, medium length fruiting branches, 4 and 5 bolls on lower branches, with 1 or 2 bolls at top, creating a conical form, foliage sparse, the flowers are medium in size, 5 petals, and are borne singly, the corolla and pollen are creamy yellow in color, the corolla having a pinkish red coloring on the outer side, no spots or discoloration inside of the blossom, the fruit is medium in size, round ovoid in shape, beaked, 60 percent of the bolls are 4 lock, 40 percent 5 locks, 80 bolls seed cotton per pound, bolls slightly storm resistant, the seed are small in size, ovoid in shape, coated with a very short whitish brown linters, 4,800 to 5,000 seed per pound, lint percent 41 percent, average range of fiber properties are, lint length 1.12 inches, pressley strength 89.27, gram/Tex 25.3, micronaire 3.9, 105 to 120 days to maturity.

The Lambright GL-F cotton being of the homozygous genotype, with only the recessive genes $gl_2 gl_2 gl_3 gl_3$ genes present, which are the glandless bearing genes only, the seed and all parts of the plant are free of gossypol glands throughout the growing period, in comparison to the normal glanded genotype cottons with the $GL_1 GL_1 GL_2 GL_2 GL_3 GL_3$ genes present which are gossypol bearing genes, with the phenotype expression and the presence of the pigmented gossypol bearing glands in all parts of the plant ~~XXXXXXXXXX~~ which are obvious and easily noticeable throughout the growing period.

The Lambright GL-F cotton most closely resembles its parent, the Lambright GL-5 variety, with the glandless seed, disease resistance, and of the smooth leaf class, except the Lambright GL-5 cotton has normal bracts, versus GL-F has frego type bracts, the GL5 does not shed the bracts, versus GL-F with the 'Decedious' characteristic that does shed up to 60 percent of the bracts at maturity, the GL-5 variety has a standard 2-5 phyllotaxy, versus GL-F having a 3-1 phyllotaxy, creating an open type plant that lets the sun and light pass through most all day, allowing earlier maturity, GL-5 115 to 120 days, versus GL-F 105 to 120 days, the Lambright GL-5 plants are shorter 18 inches in height, versus GL-F 26 inches, the GL-5 lint percent of 38, versus GL-F 41 percent, The Lambright GL-F cotton has proven to have good resistance to verticillium and fusarium wilt, with resistance to bacterial and ascochyta blight.

FORM GR-470-B
(10-2-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Cotton)

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

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) J. H. Lambright	FOR OFFICIAL USE ONLY
	PVPO NUMBER 7800029
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Route 2, Slaton, Texas 79364	VARIETY NAME OR TEMPORARY DESIGNATION Lambright GL-F

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 = GOSSYPIUM HIRSUTUM 2 = GOSSYPIUM BARBADENSE

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

EASTERN DELTA CENTRAL HIGH PLAINS EL PASO AREA
 WESTERN LOW HOT VALLEYS SAN JOAQUIN OTHER (Specify) _____

3. MATURITY (50% Open Boll):

<input type="text" value="10"/> NO. OF DAYS EARLIER THAN	<input type="text" value="4"/> } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
<input type="text" value="00"/> NO. OF DAYS LATER THAN	<input type="text" value="7"/> } 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
	7 = LANKART 57 8 = OTHER (Specify) _____

4. PLANT HABIT:

1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT 1 = FOLIAGE SPARSE 2 = DENSE
3 = OTHER (Specify) _____

5. PLANT HEIGHT:

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

6. MAIN STEM:

1 = LAX 2 = ASCENDING 3 = ERECT cm. TO FIRST FRUITING BRANCH NO. OF NODES TO FIRST FRUITING BRANC (from cotyledonary node)

7. LEAF:

cm. WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENCE:

1 = GLABROUS (HAIRS AS SPARSE AS D₂ SMOOTH)
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 3 = PUBESCENT (STONEVILLE 213)
4 = HEAVY PUBESCENCE (H₁ OR H₂) 5 = OTHER (Specify) _____

9. LEAF COLOR:

1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (Acala-442) 4 = RED
5 = OTHER (Specify) _____

10. LEAF TYPE:

1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (Specify) _____

11. FLOWER:

1 = NECTARILESS 2 = NECTARIED
 Petals: 1 = CREAM 2 = YELLOW Pollen: 1 = CREAM 2 = YELLOW

12. FRUITING BRANCH TYPE:

1 = CLUSTER 2 = SHORT 3 = NORMAL 1 = DETERMINATE 2 = INDETERMINATE

13. GOSSYPOL CONDITION:

1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS 1 = NORMAL BUD GOSSYPOL
4 = OTHER (Specify) _____ 2 = HIGH BUD GOSSYPOL

14. SEEDS:

LB. SEED INDEX (Fuzzy seed basis) Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify) _____

Exhibit 13 D, Additional Descriptive Information,
to assist and more clearly describe
the characteristics of the, Lambright
GL-F Cotton Variety.

The special characteristics of the Lambright GL-F cotton variety, are the absence of the lysigenous pigmented internal gossypol glands, allowing the seed to be made suitable for food grade products. The frego bract with the deciduous characteristic, that sheds as many as fifty (50) to sixty (60) percent of the bracts as the plants mature, thus reducing dust and trash. With most all plants having the 3 - 1 phyllotaxy, leaving the plants open, for more sun light, permitting earlier maturity. The fruiting pattern is such that the young forms and bolls are consistantly out in the open for many days, which is very helpful in most years. (see photographs No. 2, 3.

The Lambright GL-F cotton, is annual plants, medium to tall in height, red in color, eight (8) inches taller than its parent, the Lambright GL-5, four (4) inches shorter than acala 1517, early maturing, 10 to 12 days earlier than Lambright GL-5, medium size main stem, erect, determinant type growth, glabrous or smooth leaf class. Production equal or above the normal glanded cottons, an occasional vegetative branch, branches erect with plant, medium to small mostly 3 and 4 lobe leaves, dark green in color, foliage sparse, the flowers are medium in size, 5 petals, and are born singly, the corolla and polen are light creamy yellow in color, the corolla having a pinkish red coloring on the outer side, no spots or discoloration inside of the blossom,(see photos No. 2, 3), the fruit is medium to small in size, round ovid in shape, beaked, 60 percent 4 locks, 40

percent 5 locks, 80 bolls seed cotton per lb. bolls slightly storm resistant, the seed are small in size, ovoid in shape, coated with very short whitish brown linters, 4,800 to 5,000 seed to lb., lint percent 41, average range of fiber properties are, lint length 1.12, inches, pressley strength 89.27 lbs. P.S.I., micronaire reading of 3.9, 105 to 120 days to maturity, has good resistance to verticillium and fusarium wilt, resistant to race 1, and race 2, of bacterial blight, resistant to ascochyta blight.



United States
Department of
Agriculture

Agricultural
Research
Service

Northern Plains Area
National Seed
Storage Laboratory

1111 South Mason Street
Fort Collins, CO 80521-4500
Telephone: 970 495-3200
Fax: 970 221-1427

February 14, 1997

Marian R. Minnifield, Secretary
Plant Variety Protection Office
NAL Building, Room 500
10301 Baltimore Boulevard
Beltsville, Maryland 20705-2351

Subject: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

Serial Number		PVP Number
101862	01	PVP 7800029
102219	01	PVP 7800010
102675	01	PVP 7800088
102676	01	PVP 7400011
103506	01	PVP 7800084
103507	01	PVP 7900
103508	01	PVP 7800
103840	01	PVP 7900
103842	01	PVP 7900
104549	01	PVP 7700
104551	01	PVP 7100
314988	01	PVP 9500
101863	01	PVP 7800
102222	01	PVP 7800
102226	01	PVP 7800
101854	01	PVP 7200
102214	01	PVP 7600
102216	01	PVP 7900
102217	01	PVP 7800
102218	01	PVP 7800
102220	01	PVP 7800
102221	01	PVP 7800

To be filed

pu # 7800029

97 FEB 25 1997
USDA



United States
Department of
Agriculture

Agricul
Resear
Servic

111 South Mason Street
Fort Collins, CO 80521-4500
Telephone: 970 495-3200
Fax: 970 221-1427

102673	01	PVP 7800059
103502	01	PVP 7800096
103503	01	PVP 7800074
103509	01	PVP 7900044
103510	01	PVP 7900047
103838	01	PVP 7500042
103843	01	PVP 7300101
101859	01	PVP 7200132
102227	01	PVP 7700085
103511	02	PVP 7800028
103839	01	PVP 7900049
103845	01	PVP 7900048
104548	02	PVP 7800057
104550	01	PVP 7800024

97 FEB 25 1997
USDA

Sincerely,

GENE KEYS
Data Coordinator



United States
Department of
Agriculture

Agricultural
Research
Service

Northern Plains Area
National Seed
Storage Laboratory

1111 South Mason Street
Fort Collins, CO 80521-4500
Telephone: 970 495-3200
Fax: 970 221-1427

102673	01	PVP 7800059
103502	01	PVP 7800096
103503	01	PVP 7800074
103509	01	PVP 7900044
103510	01	PVP 7900047
103838	01	PVP 7500042
103843	01	PVP 7300101
101859	01	PVP 7200132
102227	01	PVP 7700085
103511	02	PVP 7800028
103839	01	PVP 7900049
103845	01	PVP 7900048
104548	02	PVP 7800057
104550	01	PVP 7800024

Sincerely,

GENE KEYS
Data Coordinator

97 111 25 495 3200

USDA 111 25 495 3200

15. BOLLS:

2 Locules: 1 = 3-4
 2 = 4-5 3 1 NO. SEEDS PER BOLL 4 1 0 LINT PERCENT 1 1/4 inches DIAMETER

1 Pitted: 1 = NONE
 2 = FINELY
 3 = COURSELY 5 1 5 GRAMS SEED COTTON PER BOLL 2 Breadth: 1 = BROADER AT BASE
 2 = BROADER AT MIDDLE

2 Type: 1 = STORMPROOF (WESTBURN 70)
 2 = STORM RESISTANT (LANKART 57)
 3 = OPEN (DELTAPINE 16) 3 Shape: 1 = LENGTH < WIDTH
 2 = LENGTH = WIDTH
 3 = LENGTH > WIDTH

16. BRACTEOLAS:

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

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

17. YIELD: Compared to—

0 0 0 PERCENT LESS THAN 4 } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
 4 = PAYMASTER 111 5 = ACALA 1517-70
 1 0 0 PERCENT MORE THAN 7 } 6 = ACALA SJ-1 7 = LANKART 57

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

SPAN LENGTH 50% 1 1 2 SPAN LENGTH 2.5% U.H.M. LENGTH

MEAN LENGTH 3 6 STAPLE LENGTH 32nd INCHES

UNIFORMITY RATIO (MEAN/U.H.M.) 5 0 UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

1,000 P.S.I. 0 6 7 ELONGATION E₁ 2 5 3 STILOMETER T₀

3 9 0 MICRONAIRE READING 1 1 7 YARN STRENGTH (Give test method) *lbs. 22 yarns* STILOMETER T₁

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

<input type="checkbox"/> 2 VERTICILLIUM WILT	<input type="checkbox"/> 2 FUSARIUM WILT	<input type="checkbox"/> 0 ROOT KNOT NEMATODE	<input type="checkbox"/> 2 BACTERIAL BLIGHT (Race 1)
<input type="checkbox"/> 2 BACTERIAL BLIGHT (Race 2)	<input type="checkbox"/> 2 ASCOCHYTA BLIGHT	<input type="checkbox"/> 0 PHYMATOTRICHUM ROOT ROT	<input type="checkbox"/> 0 RHIZOCTONIA
<input type="checkbox"/> 0 ANTHRACNOSE	<input type="checkbox"/> 0 RUST	<input type="checkbox"/> OTHER (Specify) _____	

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

<input type="checkbox"/> 0 BOLL WEEVIL	<input type="checkbox"/> 0 APHID	<input type="checkbox"/> 0 FLEAHOPPER	<input type="checkbox"/> 0 LEAFWORM
<input type="checkbox"/> 0 FALL ARMYWORM	<input type="checkbox"/> 0 GRASSHOPPER	<input type="checkbox"/> 0 LYGUS	<input type="checkbox"/> 0 PINK BOLLWORM
<input type="checkbox"/> 0 STINKBUG	<input type="checkbox"/> 0 THRIP	<input type="checkbox"/> 0 CUTWORM	<input type="checkbox"/> 0 SPIDERMITE
<input type="checkbox"/> 0 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.

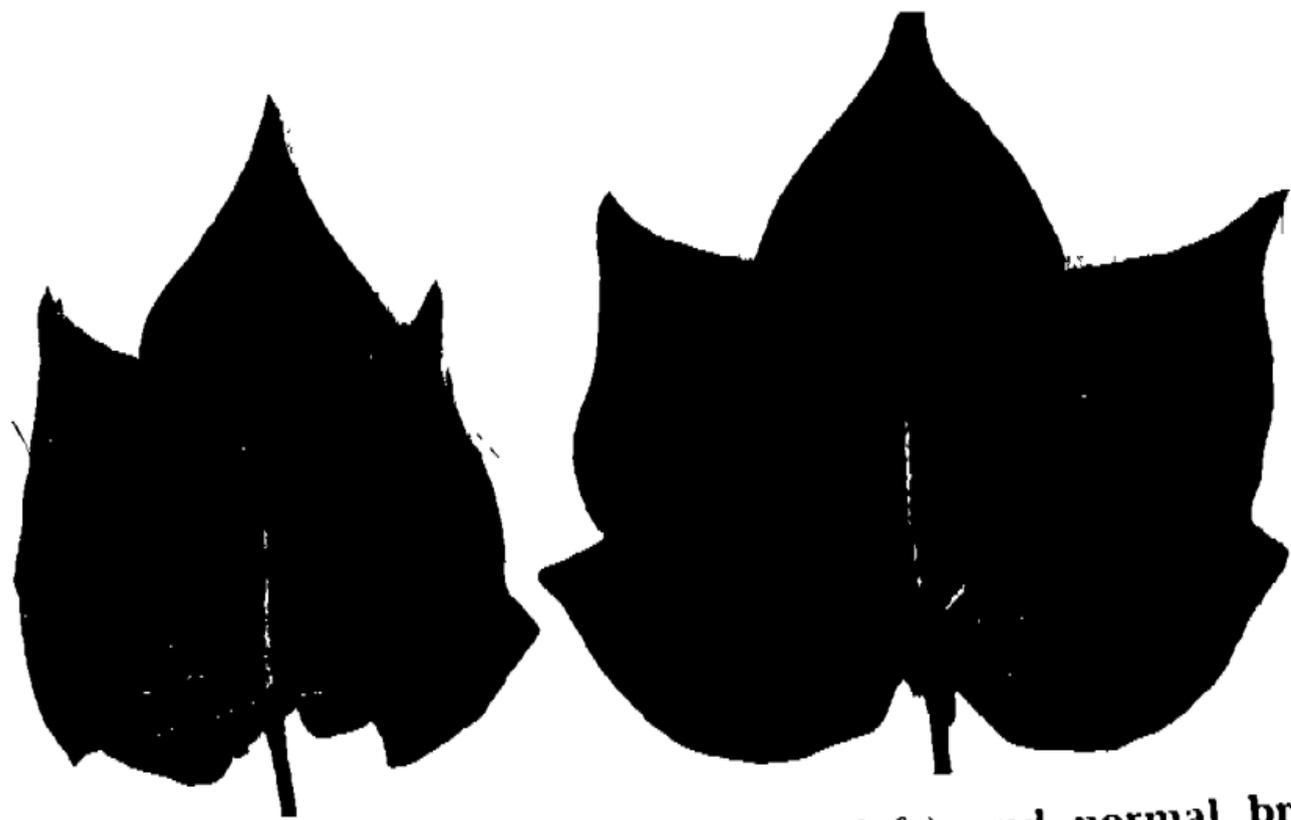


Fig. 3. Typical leaves of frego bract (left) and normal bract biotypes.



fig. 1. Immature flower buds of frego bract (left) and norm
bract biotypes.

