

No.



7800023

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Delta and Pine Land Company

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 (ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Deltapine 80'



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 20th day of September in the year of our Lord one thousand nine hundred and seventy-eight

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

| | | | |
|---|--|--|---|
| 1a. TEMPORARY DESIGNATION OF VARIETY Dp 682-940-05-13 & 18 | 1b. VARIETY NAME Deltapine 80 | FOR OFFICIAL USE ONLY | |
| | | PV NUMBER 7800023 | |
| 2. KIND NAME Cotton | 3. GENUS AND SPECIES NAME Gossypium Hirsutum | FILING DATE 1-17-78 | TIME 10:00 ^{A.M.} _{P.M.} |
| 4. FAMILY NAME (BOTANICAL) Malavecae | 5. DATE OF DETERMINATION October, 1971 | FEE RECEIVED \$ 250.00 | DATE 1-17-78 |
| | | \$ 250.00 | 1-17-78 |
| | | \$ 250.00 | 8-21-78 |
| 6. NAME OF APPLICANT(S) Delta & Pine Land Company | 7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Scott, Mississippi 38772 | 8. TELEPHONE AREA CODE AND NUMBER 601-742-3351 | |
| 9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation | | 10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Mississippi | 11. DATE OF INCORPORATION April 29, 1886 |

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

Early C. Ewing, Jr.
Delta & Pine Land Company
Scott, Mississippi 38772

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.

8/10/76
(DATE)

11/24/77
(DATE)

Elmer L. Gilbert
(SIGNATURE OF APPLICANT)

Early C. Ewing, Jr.
(SIGNATURE OF APPLICANT)

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

| | | | |
|---|--|--|---|
| 1a. TEMPORARY DESIGNATION OF VARIETY Dp 682-940-05-13 & 18 | 1b. VARIETY NAME Deltapine 80 | FOR OFFICIAL USE ONLY | |
| | | PV NUMBER 7800023 | |
| 2. KIND NAME Cotton | 3. GENUS AND SPECIES NAME Gossypium Hirsutum | FILING DATE 1-17-78 | TIME 10:00 ^{A.M.} _{P.M.} |
| 4. FAMILY NAME (BOTANICAL) Malavecae | 5. DATE OF DETERMINATION October, 1971 | FEE RECEIVED \$ 250.00 | DATE 1-17-78 |
| | | \$ 250.00 | 1-17-78 |
| | | \$ 250.00 | 8-21-78 |
| 6. NAME OF APPLICANT(S) Delta & Pine Land Company | 7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Scott, Mississippi 38772 | 8. TELEPHONE AREA CODE AND NUMBER 601-742-3351 | |
| 9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation | | 10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Mississippi | 11. DATE OF INCORPORATION April 29, 1886 |

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

Early C. Ewing, Jr.
Delta & Pine Land Company
Scott, Mississippi 38772

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.

8/10/76
(DATE)

11/22/77
(DATE)

Elmer L. Gilbert
(SIGNATURE OF APPLICANT)

Early C. Ewing, Jr.
(SIGNATURE OF APPLICANT)

7800023

EXHIBIT A

Delta and Pine Land Company's Application for Deltapine 80

Origin and Breeding History:

Deltapine 80 originated from a cross made in 1968 involving Deltapine 16 and Deltapine Experimental Strain 6020-160-24-31. 6020 was a cross between Deltapine 5540 released in Arizona in 1965 and Deltapine Smooth Leaf. Deltapine 80 was tested under the designation of 682-940-05-13 & 18 or 682-940-05-72B, the 72B indicate a bulk of F5 sister lines number 13 and 18 that were selected in 1971. This material was so outstanding it was reselected in the F4 generation in 1971 and tested for the first time in 1972 as 682-940-05.

The variety has been carefully selected over a number of generations as explained in the first of the section so that the characters described in "Exhibit B" are demonstratively repeated in each generation within the variations caused by environmental differences.

No measurable variants were observed during reproduction and multiplication except there is slight variation in the smoothness of the leaves. This is typical of the "Deltapine Smooth Leaf" type of leaf smoothness. Leaves are not glabrous.

In order to assure their stability, plants of this variety are reselected at frequent intervals, grown in progeny rows, checked in progeny tests and the variety reconstituted by bulking lines which are characteristic of the variety. This variety has been reported in tests as Deltapine 682, 682-940-05, 682-940-05-72B, or 682-940-05-13 & 18.

ECEjr:cd
12/2/76

DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 80Novelty Statement

This variety, Deltapine 80, has been compared with the two varieties it most nearly resembles, Deltapine 16 and Deltapine 61, in Arizona, the Imperial Valley of California, the Mid-South and in Mexico. The principal differences between these varieties in the four different environments are:

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|---------------------------|---------------------|---------------------|---------------------|
| Yield of Lint/Acre % | | | |
| Arizona | Check | +6 | -3 |
| California | Check | +9 | +7 |
| Mid-South | Check | +1 | +4 |
| Mexico | Check | +13 | +18 |
| Lint Percentage | | | |
| Arizona | Check | +2.6 | +0.5 |
| California | Check | +2.3 | +0.1 |
| Mid-South | Check | +1.8 | -0.2 |
| Mexico | Check | +2.5 | +1.6 |
| Staple Length (2.5% Span) | | | |
| Arizona | Check | -.03 | 0.0 |
| California | Check | 0.0 | +.02 |
| Mid-South | Check | -.03 | +.01 |
| Mexico | Check | -.03 | -.02 |

This data is from Tables 1, 1a, 1b, 1c.

Data from all environments is presented to show how these relationships may vary but to illustrate they are in general agreement. Because we have comparisons in Arizona, differences observed there are used to establish novelty: namely, Yield, Lint Percentage, and Staple Length.

TABLE 1

COMPARISON OF DELTAPINE 80, DELTAPINE 16, DELTAPINE 61
TESTS IN ARIZONA 1972-1976 (5 YEARS, 5 TESTS)

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|------------------------------|---------------------|---------------------|---------------------|
| Lint yield lbs/acre | 1167 | 1233 | 1131 |
| Lint % of Deltapine 16 | CK | 106 | 97 |
| Lint percentage | 33.2 | 35.8 | 33.7 |
| Leafiness Index | 2.1 | 2.2 | 2.2 |
| Plant Height Index | 2.0 | 2.1 | 2.5 |
| Strings Out Index | 2.0 | 1.7 | 2.8 |
| Verticillium Wilt Percentage | 10 | 14 | 14 |
| Smoothness (of leaf) | 7 | 7 | 7 |

Fiber Data

| | | | |
|----------------------------------|------|------|------|
| Stelometer Strength @ 1/8" gauge | 23.4 | 23.2 | 24.0 |
| Elongation - percent | 7.4 | 7.2 | 7.6 |
| Staple Length - inches | 1.11 | 1.08 | 1.11 |
| Uniformity Ratio | 43.2 | 42.2 | 43.2 |
| Micronaire Index | 4.5 | 4.5 | 4.5 |

7800023

TABLE 1a

COMPARISON OF DELTAPINE 80, DELTAPINE 16, DELTAPINE 61
TESTS IN CALIFORNIA (IMPERIAL VALLEY) 1973-75 (3 TESTS, 3 YEARS)

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|-------------------------------|---------------------|---------------------|---------------------|
| Lint yield lbs/acre | 1506 | 1641 | 1614 |
| Lint % of Deltapine 16 | CK | 109 | 107 |
| Lint percentage | 32.7 | 35.0 | 32.8 |
| Leafiness Index | | | |
| Plant Height Index** | 2.3 | 2.0 | 2.6 |
| Strings Out Index | 2.5 | 2.2 | 2.7 |
| Verticillium Wilt Percentage* | 28 | 23 | 24 |
| Smoothness (of Leaf) | | | |

Fiber Data

| | | | |
|-----------------------------------|------|------|------|
| Stelometer Strength @ 1/8" gauge* | 25.7 | 25.0 | 25.2 |
| Elongation - percent | | | |
| Staple Length - Inches* | 1.13 | 1.13 | 1.15 |
| Uniformity Ratio | 45.3 | 44.5 | 45.5 |
| Micronaire Index | 4.3 | 4.5 | 4.7 |

* 1 test only

** 2 tests only

TABLE 1b

COMPARISON OF DELTAPINE 80, DELTAPINE 16, DELTAPINE 61
TESTS IN THE MID-SOUTH 1976 (4 SITES)

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|------------------------------|---------------------|---------------------|---------------------|
| Lint yield lbs/acre | 516 | 519 | 537 |
| Lint % of Deltapine 16 | CK | 101 | 104 |
| Lint percentage | 34.0 | 35.8 | 33.8 |
| Leafiness Index | | | |
| Plant Height Index | 2.0 | 2.0 | 2.2 |
| Strings Out Index | 2.0 | 2.1 | 2.4 |
| Verticillium Wilt percentage | 28 | 25 | 29 |
| Smoothness (of leaf) | 7 | 7VM | 7 |

Fiber Data

| | | | |
|----------------------------------|------|------|------|
| Stelometer Strength @ 1/8" gauge | 24.3 | 24.2 | 24.8 |
| Fiber Elongation - percent | 8.0 | 7.5 | 8.0 |
| Staple Length - Inches | 1.10 | 1.08 | 1.11 |
| Uniformity Ratio | 41.6 | 41.5 | 42.7 |
| Micronaire Index | 3.4 | 3.5 | 3.6 |

7800023

TABLE 1c

COMPARISON OF DELTAPINE 80, DELTAPINE 16, DELTAPINE 61
TESTS IN MEXICO 1973 (3 TESTS)

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|-------------------------|---------------------|---------------------|---------------------|
| Lint yield kilos/hect. | 1437 | 1619 | 1700 |
| Lint % of Deltapine 16 | CK | 113 | 118 |
| Lint percentage | 37.0 | 39.5 | 38.6 |
| Earliness % at 1st Pick | 73 | 74 | 75 |
| Leafiness Index | 3.0 | 3.0 | 3.1 |
| Plant Height Index | 2.7 | 2.4 | 2.6 |
| Strings Out Index | 1.3 | 1.3 | 1.8 |

Fiber Data

| | | | |
|--------------------------------|------|------|------|
| Stelometer Strength 1/8" gauge | 22.7 | 21.9 | 23.5 |
| Elongation | 6.0 | 6.3 | 5.7 |
| Pressley Strength | 83 | 82 | 83 |
| Staple Length - Inches | 1.10 | 1.07 | 1.08 |
| Uniformity Ratio | 45 | 44 | 46 |
| Micronaire Index | 4.9 | 4.8 | 5.2 |

FORM GR-470-8
(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) Delta & Pine Land Company | FOR OFFICIAL USE ONLY PVPO NUMBER 7800023 |
| ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Scott, Mississippi 38772 | VARIETY NAME OR TEMPORARY DESIGNATION Deltapine 80 |

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=""/> <input type="text" value=""/> NO. OF DAYS EARLIER THAN | <input type="text" value=""/> } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 | |
| <input type="text" value="0"/> <input type="text" value="1"/> NO. OF DAYS LATER THAN | <input type="text" value="2"/> } 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: See attached supporting data.

| | | |
|--|---|--|
| <input type="text" value="0"/> <input type="text" value="0"/> CM. SHORTER THAN | <input type="text" value="2"/> } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213 | |
| <input type="text" value="0"/> <input type="text" value="0"/> CM. TALLER THAN | <input type="text" value="2"/> } 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 BRANCH
 (from cotyledonary node)

7. LEAF:

CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENCE:

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:

Table 4 and 5
 ± SEED INDEX (Fuzzy seed basis) Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
 3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify) _____

EXHIBIT D

7800023

DELTA & PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 80

Additional Description of the Variety

Comparisons of Deltapine 80 with the variety it most nearly resembles are summarized in Exhibit B and in Tables 1, 1a, 1b, 1c. These tables in turn are taken from Table 2 - Arizona, Table 2a - California, Table 2b - Mid-South, Table 2c - Mexico.

In addition to our Research Department tests, our salesmen conduct demonstration tests in Arizona and Southern California each year. For the three years 1974, 1975, and 1976 these total 25 tests during the three year period.

Averages from these tests over the three years show:

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|-----------------|---------------------|---------------------|---------------------|
| Yield/Acre % | Check | +7 | +6 |
| Lint Percentage | Check | +2.7 | +0.8 |
| Grade* | 37 | 34 | 36 |
| Staple 32nds | 34.7 | 34.5 | 34.7 |
| Micronaire | Check | 0.0 | +2 |

* Middling = 31 Strict Low Middling Plus 40

The above data is taken from Table 3. Which in turn is averaged from 3a through 3l (1974), 3m through 3t (1975), 3aa through 3ah (1976).

Tests are also available from the University of Arizona for the years 1974 and 1975 at three and four locations for yield and one for fiber properties. These are Tables 4 and 5. These tables when averaged give the following data:

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|-----------------------|---------------------|---------------------|---------------------|
| Lint per acre - lbs. | 1417 | 1624 | 1563 |
| Lint per acre - % | Check | 115 | 110 |
| Lint Percentage | 37.1 | 40.3 | 38.1 |
| Seed Index | 11.2 | 10.8 | 10.5 |
| 2.5% Span Length | 1.15 | 1.12 | 1.16 |
| Uniformity Ratio | 48 | 48 | 50 |
| 1/8 Pressley Strength | 3.22 | 3.04 | 3.20 |
| Micronaire | 4.8 | 4.6 | 4.9 |

Exhibit D - Continued

Expressed as deviations for the characters on which the claim for novelty is based, these become:

| | <u>Deltapine 16</u> | <u>Deltapine 80</u> | <u>Deltapine 61</u> |
|------------------|---------------------|---------------------|---------------------|
| Lint per acre % | Check | +15 | +10 |
| Lint percentage | Check | +3.2 | +1.0 |
| 2.5% Span Length | Check | -.03 | +.01 |

This compares closely with deviations shown in Exhibit B and D.

TABLE 3

7800023

AVERAGES OF SALESMEN'S TESTS FOR 1974, 1975, 1976

| | Yield Lint <u>Per/A</u> | % of Check <u>Deltapine 16</u> | <u>Lint %</u> | Classers <u>Grade</u> <u>Staple</u> | | <u>Micronaire</u> |
|----------------------------------|-------------------------------|-----------------------------------|---------------|--|------|-------------------|
| <u>1974</u> | | | | | | |
| Deltapine 16 | 1580 | CK | 34.0 | 39 | 34.6 | 4.6 |
| Deltapine 61 | 1686 | 107 | 34.8 | 37 | 34.7 | 4.8 |
| Deltapine 80 | 1701 | 108 | 36.3 | 35 | 34.1 | 4.5 |
| <u>1975</u> | | | | | | |
| Deltapine 16 | 1380 | CK | 32.3 | 33 | 34.6 | 4.4 |
| Deltapine 61 | 1457 | 106 | 33.2 | 33 | 34.4 | 4.6 |
| Deltapine 80 | 1489 | 108 | 35.6 | 33 | 34.6 | 4.4 |
| <u>1976</u> | | | | | | |
| Deltapine 16 | 1364 | CK | 32.8 | 39 | 34.8 | 4.3 |
| Deltapine 61 | 1435 | 105 | 33.4 | 39 | 34.9 | 4.3 |
| Deltapine 80 | 1449 | 106 | 35.1 | 35 | 34.8 | 4.2 |
| <u>Averages 1974, 1975, 1976</u> | | | | | | |
| Deltapine 16 | 1441 | CK | 33.0 | 37 | 34.7 | 4.4 |
| Deltapine 61 | 1526 | 106 | 33.8 | 36 | 34.7 | 4.6 |
| Deltapine 80 | 1546 | 107 | 35.7 | 34 | 34.5 | 4.4 |

COTT

PV No. 7800023

'Delta pine 80' (TREATED)

An excess seed sample of this variety was returned to the PVP Office by the National Seed Storage Laboratory. The excess seed was destroyed by PVPO personnel on JUL 18 1994

15. BOLLS:

Table 1

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

NO. SEEDS PER BOLL

LINT PERCENT

MM. DIAMETER

Pitted: 1 = NONE
2 = FINELY
3 = COARSELY

Grams Seed Cotton Per Boll N/A

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 Table 1

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

Tables 2 and 3

SPAN LENGTH 50%

SPAN LENGTH 2.5%

U.H.M. LENGTH

MEAN LENGTH

STAPLE LENGTH 32nd INCHES

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

UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

1,000 P.S.I.

ELONGATION E₁

STILOMETER T₀

MICRONAIRE READING

YARN STRENGTH (Give test method)
32's Carded

STILOMETER T₁

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.