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 eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLACEMENT OF VIVABLE 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 USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

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 THE OWNER OF THE RIGHTS.

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

COTTON

'GP 5479'

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 31st day of August in the year of our Lord one thousand nine hundred and eighty-three.

[Signature]
Commissioner
Plant Variety Protection Office
U.S. Department of Agriculture
Agricultural Marketing Service

[Signature]
Secretary of Agriculture
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

1. NAME OF APPLICANT(S)
   J & P. SEED CO., INC.

2. TEMPORARY DESIGNATION

3. VARIETY NAME
   GP 5479

4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)
   100 MAIN STREET - P.O. BOX 245
   AQUILLA, TEXAS 76622

5. PHONE (Include area code)
   817-694-2275

6. FOR OFFICIAL USE ONLY
   PVPO NUMBER
   8300033

7. GENUS AND SPECIES NAME
   GOSSYPIUM HIRUTUM
   MALVACEAE

8. KIND NAME
   COTTON, UPLAND

9. DATE OF DETERMINATION
   1979

10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)
    CORPORATION

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
    TEXAS

12. DATE OF INCORPORATION
    Aug. 1, 1983

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
    JOE H. SNAPP
    P.O. BOX 245
    AQUILLA, TEXAS 76622

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED
   a. [X] Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
   b. [X] Exhibit B, Novelty Statement
   c. [X] Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
   d. [X] Exhibit D, Additional Description of the Variety

15. 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) of the Plant Variety Protection Act.)
    [X] Yes (If "Yes," answer items 16 and 17 below)  [No]

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
    [X] Yes  [No]

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
    [X] Foundation  [X] Registered  [X] Certified

18. DID THE APPLICANT(S) FILE FOR PROTECTION OF THE VARIETY IN THE U.S. OR OTHER COUNTRIES?
    [X] Yes (If "Yes," give names of countries and dates)  [No]

19. HAVE RIGHTS BEEN GRANTED IN THE U.S. OR OTHER COUNTRIES?
    [X] Yes (If "Yes," give names of countries and dates)  [No]

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request 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 Protection Act.
    Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT
JOE H. SNAPP - PRESIDENT, J & P. SEED CO., INC.

SIGNATURE OF APPLICANT

DATE

FORM LMGS-470 (9-81) (Edition of 1-78 is obsolete)
INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and $500 fee ($250 filing fee and $250 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, 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.

Item

9  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.

14a 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 uniformity and stability.

14b 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.

14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

14d 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.

15 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, his decision published, or the certificate has been issued. However, if the applicant specified “No,” he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

16 See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.
EXHIBIT A, ORIGIN OF BREEDING HISTORY - GP 5479

Genealogy:
1. In 1971 Prof. J. S. Mogford, registered plant breeder, G. & P. Seed Co., Inc., selected a high yielding plant from seed stocks of Tamcot SP 37, a first generation MAR variety released by Texas Agricultural Experiment Station, Dr. L.S. Bird, Breeder. The original plant produced 10-5 lock bolls and 6-4 lock bolls. Staple length was 1". Since the original selection, eight subsequent reselections have been made as detailed in the following.

1972 - Seed from the original plant selection, planted in our breeding block, row 72, rated high in evaluations and was noted as early. One stalk was selected having 10-5 lock bolls and 7-4 lock bolls. Staple length 1-1/32".

1973 - Seed from previous year plant selection, planted in our breeding block, row 69, again rated high in evaluations and again was noted as early. One stalk was selected having 4-5 lock bolls and 13-4 lock bolls. Staple length was 1-1/32".

1974 - Seed from previous year plant selection, planted in our breeding block, row 59, rated high in evaluations, noted as very early, and exhibited resistance to diseases and insects. One stalk was selected having 10-5 lock bolls and 6-4 lock bolls. Staple length 1-1/32".

1975 - Seed from previous year plant selection, planted in our breeding block, row 41, rated very high in evaluations with good prolific plants. One stalk was selected having 6-5 lock bolls and 9-4 lock bolls. Staple length 1-1/16". Additional storm resistance was noted in all of these bolls.

1976 - Seed from previous year plant selection was planted in our breeding block. Due to adverse weather conditions all cotton in our block had a very poor stand and maturity was delayed. This plant increase was row 55 and again in comparative ratings, it was rated very high with early maturity. One stalk was selected having 9-5 lock bolls and 6-4 lock bolls. Due to staple length being short in all of the cottons due to the weather, its length was 1".

1978 - Seed from previous year plant selection, planted in our breeding block, row 38, had high evaluations with additional earliness, and continued storm resistance. One stalk was selected having 3-5 lock bolls and 7-4 lock bolls. Staple length 1-1/32".

1979 - Seed from previous year plant selection, planted in our breeding block, row 54, was selected by J.S. Mogford for advanced strain increase due to earliness, good bolls, prolific nature in resistance to adversities of disease and insects. 7 pounds of lint and 11 pounds of lab. delinted seed were produced. Texas Tech University, Textile Research Center fiber data on this lint was:
Micronaire - 3.95  "MPSI" - 92.5  G/Tex 1/8" - 25.0 Elong.- 5.5
Length 2.5% Span 1.15  Uniformity - 47.
1980 - The 11 pounds, keeping small reserve, from row 54 designated advanced strain GP 5479 was planted in an isolated field, .33 acres. 1980 was extremely hot and dry severely testing all plots for drought and heat tolerance. This plot produced 85 pounds of lint equal to 258 pounds of lint per acre. Fiber data from Texas Tech University, Textile Research Center was as follows:

Micronaire - 3.95 "MPSI" - 99.8 G/Tex 1/8" - 20.8 Elong. - 4.5 Length 2.5% Span 0.985 Uniformity 45.

1981 - 6.5 acres of increase GP 5479 was planted by Dan Pustejovsky, Goodrich Farm. The field was very uniform, very early, had good resistance to insects, and good storm resistance compared to GP 3774 which was produced on the other end of the farm. Production was 472 pounds of lint per acre. Fiber data from Texas Tech University, Textile Research Center was as follows:

Micronaire - 3.2 "MPSI" 93.4 G/Tex 1/8" - 21.9 Elong. - 5.5 Length 2.5% Span 0.99 Uniformity 42.

1982 - 110 acres of increased production GP 5479 was planted on Gerik Brothers Nickerson Farm and Dan Pustejovsky Kolar Farm. Average lint production was 619 pounds per acre. U.S.D.A. grades averaged for this cotton was:

LF-4.0 CI-0.5 Staple-32.0 Micronaire- 3.7 Loan Value 52.58

Texas Tech Textile Research Center data has not been received at this time.

EXHIBIT B, NOVELTY STATEMENT

Novelty is based on the unique combination of the following characters:
GP 5479 most closely resembles Tamcot SP 37 except it is (1) 12 days earlier in maturity, (2) it is 14 cm shorter, (3) it has improved fiber quality, averaging several points higher on the 1/8" G/Tex, (4) it has increased storm resistance, (5) it has a ratio of 73% cream pollen-23% yellow pollen where Tamcot SP 37 has predominately yellow pollen.

EXHIBIT D, ADDITIONAL DESCRIPTION OF GP 5479

GP 5479 is a short season upland cotton, gossypium hirsutum. GP 5479 is similar to Tamcot SP 37 in leaf shape and color with a tendency for the leaves to turn slightly darker green as it approaches maturity. GP 5479 has a shorter stalk compared to Tamcot SP 37. The plant is neither spreading nor compact with the main stalk and fruiting branches smaller in diameter compared to Tamcot SP 37. The canopy of leaves is open, permitting good sunlight penetration and air circulation. When approaching maturity it tends to partially self defoliate at the most desirable rate to promote early maturity while leaving sufficient leaves to shade and mature the later bolls. Defoliation and or discation characteristics are excellent with lower rates of chemicals and volume of total mixture required for superior conditioning preparatory to harvest. The leaves, bracts, and stem are moderately hairy while presenting no problems with fiber cleaning in the ginning process. Bolls are medium size, similar to Tamcot SP 37 except less open at full maturity. The burr snaps easily from the stalk, leaving a clean field after stripping. GP 5479 is earlier than Tamcot SP 37 and has exhibited increased disease and insect resistance along with drought tolerance throughout its selection period.
EXHIBIT A: SUPPLEMENT

GP 5479 appears stable and uniform through four generations of increase production. Okraleaf offtypes appear approximately 1:12,000.
EXHIBIT C

**NAME OF APPLICANT(S):**

G. & P. SEED CO., INC.

**ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code):**

100 MAIN STREET - P.O. BOX 245
AQUILLA, TEXAS 76622

**TEMPORARY DESIGNATION:**

GP 5479

**FOR OFFICIAL USE ONLY**

PVPO NUMBER
8300033

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**OBJECTIVE DESCRIPTION OF VARIETY**

COTTON (Gossypium spp.)

**PLACE NUMBERS IN THE BOXES (E.G., 0 8 9) FOR THE CHARACTERS THAT BEST DESCRIBE TYPICAL PLANTS OF THIS VARIETY. THE SYMBOL # INDICATES DECIMAL.**

**SPECIES:**

1 = G. *hirsutum* L. 2 = G. *barbadense* L.

**AREA(S) OF ADAPTATION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):**

0 Eastern 1 Delta 2 Central 2 High Plains 0 El Paso Area 0 Western Low Hot Valleys 0 San Joaquin 0 Other (Specify)

**MATUREITY (50% Open Bolls, Ideal Method: Date 50% of Crop-Harvested-determined from sequential yield harvests. Give method:**

12 No. of Days earlier than 1
Maturity same as 0
2 No. of Days later than 0

1 = Early (Tamcot SP 37) 2 = Medium (McNair 220) 3 = Late (Stoneville 213)

**PLANT:**

14 Cm Shorter than 7
Height same as 0
Cm Taller than 0

12 Cm to 1st Fruiting Branch (from cotyledonal node)
06 No. of Nodes to 1st Fruiting Branch
2 Stem Pubescence:
1 = Glabrous 2 = Sparse Pubescence 3 = Pubescent (Stoneville 213) 4 = Heavy Pubescence

**LEAF:**

16 Cm Width of Widest Leaves at Maturity
2 Pubescence:
1 = Glabrous (Tamcot SP 215) 2 = Sparse Pubescence (DPL-16) 3 = Pubescent (Stoneville 213) 4 = Heavy Pubescence
2 Color:
1 = Greenish Yellow (Cascot B-2) 2 = Light Green (Stoneville 603) 3 = Dark Green (Coker 310) 4 = Other (Specify)

2 Nectaries:
1 = Absent 2 = Present

**FRUITING BRANCH:**

3 Type:
1 = Cluster 2 = Short 3 = Normal
1 Growth:
1 = Determinate 2 = Intermediate 3 = Indeterminate

**GLANDS (Gossypol):**

3 Gland Density (Vegetative):
1 = Glandless 2 = Low 3 = Medium (Stoneville 213) 4 = High
2 Gossypol % (Buds):
1 = Low 2 = Medium (Stoneville 213) 3 = High
EXHIBIT B, NOVELTY STATEMENT:

Novelty is based on the unique combination of the following characters: GP 5479 most closely resembles GP 3774 except it is (1) 7 days earlier in maturity, (2) it is 12.7 Cm shorter, (3) it has increased storm resistance.

ATTACHED EXHIBITS - NOVELTY STATEMENT

#1. Performance data for cotton cultivars in Hill County, Texas - 1982.
   GP 3774 earliness factor 37.4
   GP 5479 earliness factor 54.8

#2. Yield and earliness information for cotton cultivars planted on three dates at Corpus Christi, Texas - 1982
   Note: This test does not include GP 3774 but it does include TAMCOT CAMD-E which is considered to be as early or earlier than any commercial variety released in Texas at this time. Included with this, Evaluation of cotton cultivars grown at Itasca, Hill County, Texas 1981 that shows TAMCOT CAMD-E to be earlier than GP 3774. Earliness factor TAMCOT CAMD-E 52.0 - GP 3774 44.3.

#3. 8"x10" photograph showing stalk heigth difference - Nickerson Farm 1982.
   GP 3774 - 36" - GP 5479 - 31". This cotton was planted on the same date, the field is very uniform and all other factors such as fertilization and pest control were the same. Note: Heigth difference between GP 3774 and GP 5479 has been noted in our breeding program throughout the development of GP 5479.

Increased storm resistance was noted throughout the development of GP 5479 and was very much apparent in production year 1981 when a wind and rain storm hit our area after the cotton was open and before harvest. The GP 5479 withstood the storm considerably better than the GP 3774.
Table. Performance data for cotton cultivars in Hill County, Texas. 1982 (Henry Theum and Robert Hoermann cooperator's).

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Lint Percent</th>
<th>Lint yield per acre</th>
<th>Earliness¹</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lp.</td>
<td>Harvest 8/21 lbs.</td>
<td>Harvest 9/13 lbs.</td>
</tr>
<tr>
<td></td>
<td>Seed cotton</td>
<td>Bur cotton</td>
<td></td>
</tr>
<tr>
<td>TX-CDPS-3-80</td>
<td>37.7</td>
<td>30.8</td>
<td>179ab²</td>
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<td>TX-CAMD-21-S-4-80</td>
<td>38.2</td>
<td>29.4</td>
<td>169ab</td>
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<tr>
<td>TX-LEBO-80</td>
<td>38.2</td>
<td>30.0</td>
<td>160abc</td>
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<td>G&amp;P 3479</td>
<td>38.3</td>
<td>30.3</td>
<td>144abcd</td>
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<tr>
<td>Tamcot CAMD-E</td>
<td>39.7</td>
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<td>TX-MOHU-1-80</td>
<td>38.8</td>
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<td>TX-Blank-ORSB0-5-80</td>
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<td>27.0</td>
<td>132abcdef</td>
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<td>Lankart 571</td>
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<td>126 bcdef</td>
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<td>Tamcot SP21S</td>
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<td>30.2</td>
<td>120 bcdefg</td>
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<td>Tamcot SP37H</td>
<td>35.9</td>
<td>28.9</td>
<td>115 cdefgh</td>
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<td>G&amp;P 3774</td>
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<td>115 cdefgh</td>
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<td>Cascot BR-1</td>
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<td>Paymaster 145</td>
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<td>TX-BL2CS-2-80</td>
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<td>26.4</td>
<td>104 defghij</td>
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<td>Pioneer 68</td>
<td>35.7</td>
<td>28.4</td>
<td>99 defghij</td>
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<td>GSA 75</td>
<td>34.6</td>
<td>26.6</td>
<td>99 defghij</td>
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<td>Cascot C-13</td>
<td>40.5</td>
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<td>92 defghij</td>
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<td>Tamcot SP37</td>
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<td>86 fghi</td>
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<td>G&amp;P 1005</td>
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<td>Pioneer 75</td>
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<td>75 ghi</td>
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<td>Stoneville 302</td>
<td>39.4</td>
<td>31.2</td>
<td>66 hij</td>
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<td>62 hij</td>
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<td>61 hij</td>
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<td>ALL-Tex 4857</td>
<td>38.7</td>
<td>30.9</td>
<td>54 j</td>
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<tr>
<td>Average</td>
<td></td>
<td>108</td>
<td>141</td>
</tr>
<tr>
<td>C.V.</td>
<td></td>
<td>20.5</td>
<td>15.7</td>
</tr>
</tbody>
</table>

¹Percentage of total yield obtained in the first harvest.
²Averages not followed by the same letter are different according to Duncan's test for the 5% probability level.
<table>
<thead>
<tr>
<th>Cultivar</th>
<th>First harvest yield for planting dates</th>
<th>Total yield for planting dates</th>
<th>Earliness(^1) by Planting dates</th>
<th>Combined average total yield over dates(^6)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>March(^2) 11</td>
<td>March(^3) 24</td>
<td>March(^4) 11</td>
<td>March(^4) 24</td>
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<tr>
<td>4-3840-63L</td>
<td>329 b^7</td>
<td>278abc^7</td>
<td>792a^7</td>
<td>670a^7</td>
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<td>TX-CAMD-21-S-4-80</td>
<td>518a</td>
<td>347abc</td>
<td>733abc</td>
<td>614a</td>
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<td>Tamcot SP37H</td>
<td>377ab</td>
<td>344 bc</td>
<td>764abc</td>
<td>609a</td>
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<td>Tamcot CAMD-E</td>
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<td>345abc</td>
<td>769ab</td>
<td>569a</td>
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<td>513a</td>
<td>419a</td>
<td>713abc</td>
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<td>383ab</td>
<td>711abc</td>
<td>614a</td>
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<td>McNair 220</td>
<td>376ab</td>
<td>202 c</td>
<td>761abc</td>
<td>572a</td>
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<td>TX-Blank-ORSBO-5-80</td>
<td>158 c</td>
<td>224 bc</td>
<td>596 bc</td>
<td>682a</td>
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<td>RDC-102</td>
<td>360ab</td>
<td>315abc</td>
<td>594 c</td>
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<td>656abc</td>
<td>609a</td>
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<td>400</td>
<td>312</td>
<td>711A</td>
<td>619B</td>
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<tr>
<td>C.V.</td>
<td>22.3</td>
<td>28.1</td>
<td>12.4</td>
<td>12.3</td>
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</tbody>
</table>

\(^1\)Percentage of total yield obtained in the first harvest.

\(^2\)July 20

\(^3\)July 22

\(^4\)August 6

\(^5\)Only one harvest on August 16.

\(^6\)The cultivar x date of planting interaction was not significant.

\(^7\)Averages not followed by the same letter are different according to Duncan's test for the 5% probability level.
Table 1. Evaluations of cotton cultivars grown at Itasca, Hill County, Texas 1981. 1 (Henry Theum and Robert Hoxermann cooperators)

<table>
<thead>
<tr>
<th>Entry No.</th>
<th>Cultivar</th>
<th>First Harvest 2</th>
<th>Total Harvest</th>
<th>Earliness 3</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Tamcot CAMD-E</td>
<td>494a 3</td>
<td>946ab 3</td>
<td>52.0ab 3</td>
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<tr>
<td>7</td>
<td>Tx-CAMD-21-S-1</td>
<td>464ab</td>
<td>825a-d</td>
<td>55.9a</td>
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<tr>
<td>9</td>
<td>Tx-CDFS-81</td>
<td>449ab</td>
<td>976ab</td>
<td>47.0abc</td>
</tr>
<tr>
<td>3</td>
<td>Tamcot SP21S</td>
<td>442a-c</td>
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<td>863a-c</td>
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<td>1034a</td>
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<td>880a-c</td>
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1Planted April 10, harvested August 25 and October 20, 1981.
2Percentage of total yield obtained in first harvest.
3Averages not followed by the same letter are different according to Duncan's test for the 5% level.