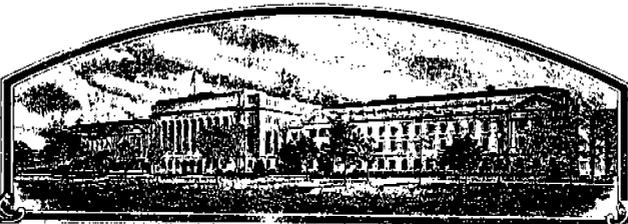


No.

7700018



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

G & P Seed Co., 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 EXHIBIT IT, TO OFFER IT FOR SALE, OR OFFERING IT FOR SALE, OR REPRODUCING 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. IN ANY CERTIFIED SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A 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'

'GP 3774'



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 29th day of September in the year of our Lord one thousand nine hundred and seventy-eight

Attest

Sumner H. Green
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Bob Berglund
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY GP 3774	1b. VARIETY NAME GP 3774	FOR OFFICIAL USE ONLY	
		PV NUMBER 7700018	
2. KIND NAME Upland, cotton	3. GENUS AND SPECIES NAME Gossypium hirsutum	FILING DATE 12-20-76	TIME 9:15 <input checked="" type="radio"/> A.M. <input type="radio"/> P.M.
4. FAMILY NAME (BOTANICAL) Malvaceae	5. DATE OF DETERMINATION Sept. 15, 1975	FEE RECEIVED	DATE
		\$ 250.00	12-20-76
		\$ 250.00	2-28-77
		\$ 250.00	8-17-78
6. NAME OF APPLICANT(S) G & P Seed Co., Inc.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 622 Whitney, Texas 76692	8. TELEPHONE AREA CODE AND NUMBER 817 694-3654	
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 Texas	11. DATE OF INCORPORATION 1974

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

Edwin J. Gerik
P. O. Box 622
Whitney, Texas 76692

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.)		<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
14B. Does the applicant(s) specify that this variety be limited as to number of generations?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
14C. If "Yes," to 14B, how many generations of production beyond breeder seed?		<input checked="" type="checkbox"/> FOUNDATION	<input type="checkbox"/> REGISTERED
		<input type="checkbox"/> 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.

12-17-76
(DATE)

Edwin J. Gerik - Sec
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

OBJECTIVE DESCRIPTION OF VARIETY
COTTON (GOSSYPIUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) G & P Seed Co., Inc.	FOR OFFICIAL USE ONLY
	PVPO NUMBER 7700018
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Box 622 Whitney, Texas 76692	VARIETY NAME OR TEMPORARY DESIGNATION GP-3774

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):

NO. OF DAYS EARLIER THAN } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
 NO. OF DAYS LATER THAN } 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (Specify) Tamcot SP 37

4. PLANT HABIT:

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

5. PLANT HEIGHT:

CM. SHORTER THAN } 1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
 CM. TALLER THAN } 4 = PAYMASTER 111 5 = ACALA 1517-70 6 = ACALA SJ-1
7 = LANKART 57 8 = OTHER (Specify) Tamcot SP 37

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: 5/2/77 89H } 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) as Tamcot SP 37

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:

SEED INDEX (Fuzzy seed basis) 4 } 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16)
Seed Fuzz: 3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify) as Tamcot 37

Exhibit A----Origin and Breeding History of Variety

1. Designation GP 3774 as name of variety.

Selected a high yielding plant possessing good quality fiber, showing storm resistant bolls, early maturing out of seed stocks of Tamcot SP 37 cotton secured from Dr. L. S. Bird, Texas Agricultural Experiment Station.

2. The original plant produced 22 bolls (17-5 and 5-4 locks) in 1972. Seed from the plant was planted in a 48 yard row in 1973, produced 21 lbs. seed cotton, ginning out 13 lbs. seed, staple 1-1/32, micronaire 3.8. In 1974 planted two rows 800 yards long, produced 445 lbs. lint per acre, which was harvested, ginned, seed delinted and seed stored. Fiber analysis of selection by Texas Tech University, Textile Research Center is as follows: Sample Number 74-5: finess 3.6; strength MP 51 83.2; 1/8 G/Tex 20.1% elongation 7.0; length 2.5% Span .96, %Unif 43; Color MCI Rd 71.5, +b 8.8, color grade SLM Lt SP.

3. GP 3774 cotton planted in 1975 on 16.2 acres produced 17 bales, 8678 lbs. lint, 13,760 lbs seed, 26% lint turnout and 41.3% seed turnout.

Supplement to Exhibit A

'Gp 3774'

PV # 7700018

Each generation has been carefully examined and no off type plants have been observed through six generations indicating stability of the variety.

W.P. Seed Co. Inc.
By Edw. J. Hinch, Sec.

Exhibit B

'GP 3774'

PV # 7700018

'GP 3774' most closely resembles 'Tamcot SP37' but 'GP 3774' has a coarser fiber (.4-.5 higher micronaire), has larger bolls (.30 grs. more seed cotton/boll), and matures earlier (15-30% higher 1st picking percentage) than 'Tamcot SP37.' 'GP 3774' also closely resembles 'GP 3755' but 'GP 3774' has leaves that are distinctly more pubescent and has smaller bolls (.30-.40 grs. less seed cotton/boll) than 'GP 3755.'

G.P. Seed Co. Inc.
Edwin J. Hill, Inc.

TABLE - IV -

MICRONAIRE COMPARISON

Summary of Data, 1977
Cotton Variety Test
Thrall

Right-hand continuation

Variety	Fiber Properties ^{1/}			
	2.5% SL	UI	Micro- naire	MPSI
Stoneville 213	1.04	45	4.20	92.1
Dunn 200	1.00	47	4.20	93.6
TPSA-970	1.04	43	4.55	96.9
McNair 307	1.06	48	3.90	91.2
Pioneer Exp. 168-9	0.96	46	3.88	91.6
Stripper 31A	0.90	48	5.20	89.4
TAMCOT SP-37	1.07	46	3.22	87.6
Lockett 77	1.02	46	3.62	93.3
TX-MAR-76	1.03	46	3.82	90.9
G & P 3774	1.04	46	3.75	86.8
Lankart Sel. 611	0.96	46	3.65	89.6
Cascot L-7	1.04	44	3.70	94.6
Lockett 4789A	1.03	46	3.95	95.2
Prolific Stormproof	0.98	46	3.52	97.0
G & P 3755	0.98	44	3.65	85.2
Lankart LX571	1.01	46	4.00	88.0
Dunn 120	1.06	44	3.82	92.3
Deltapine SR-4	1.01	47	3.70	94.6
Paymaster 266	0.99	50	4.10	101.8

^{1/} Fiber property determinations by Textile Research Center, Texas Tech University.

TABLE VI

MICRONAIRE COMPARISON

Summary of Data, 1977
Cotton Variety Test
Dallas

Right-hand continuation

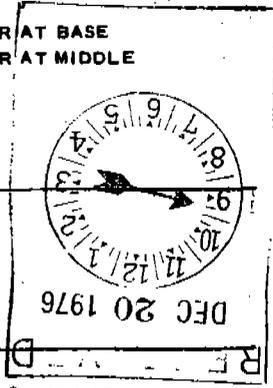
Variety	Fiber Properties ^{1/}			
	2.5% SL	UI	Micro- naire	MPSI
CAMD-H	1.00	48	4.32	96.0
Stoneville 213	1.04	46	4.60	96.1
Lockett 77	0.97	47	4.35	92.4
G & P 3755	0.99	45	(4.22)	88.4
CAMD-E	0.96	45	4.20	93.5
G & P 3774	0.96	45	(4.62)	88.1
Deltapine SR-4	0.96	46	4.48	97.8
TAMCOT SP-37	1.05	46	(3.90)	90.8
Pioneer Exp. 560-2	1.00	45	4.48	95.0
Dunn 119	1.04	46	4.10	109.8
McNair 307	1.04	46	4.28	97.6
McNair 308	1.06	46	3.95	99.5
Prolific Stormproof	0.96	47	4.28	101.3
Pionner Exp. 99-2	0.98	45	4.12	96.2
GSA-71	0.96	48	4.52	96.4
Mo. 63-277BR-1A	1.08	48	3.92	101.6
Lockett 4789A	1.00	48	4.45	97.4
Paymaster 5291-1	1.02	47	4.05	93.2
Westburn M	1.00	46	4.25	94.4
Dunn 224	1.01	44	4.30	101.3
Stripper 31A	0.86	48	5.85	97.3
Paymaster 111A	0.98	46	4.08	101.0
Lankart Sel. 611	0.91	46	3.60	91.3
Lankart LX571	1.02	48	4.65	99.9
Cascot L-7	1.05	45	4.22	101.3
TPSA-970	1.04	46	4.72	97.0
Deltapine SR-2	1.02	49	4.50	101.0
TX-ORLE-76C	1.04	46	4.42	94.4
TX-ORHA-76C	0.99	44	4.62	102.2
Paymaster 303	0.96	44	3.80	98.4

^{1/} Fiber property determinations made by Textile Research Laboratories, Texas Tech University.

MP 3774

15. BOLLS:

4 bolls 32 seed each
 5 "40 seed each
 2 Locules: 1 = 3-4 2 = 4-5
 NO. SEEDS PER BOLL LINT PERCENT 5/4/77
 2 Pitted: 1 = NONE 2 = FINELY 3 = COURSELY
 GRAMS SEED COTTON PER BOLL 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:

2 Breadth: 1 = LENGTH < WIDTH 2 = LENGTH = WIDTH 3 = LENGTH > WIDTH
 2 Teeth: 1 = FINE 2 = COURSE 3 = OTHER (Specify) _____
 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 8. Tamcot
 6 = ACALA SJ-1 7 = LANKART 57 SP 37

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

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
 MICRONAIRE READING YARN STRENGTH (Give test method) 1/8" G/Tex STILOMETER T₁
 11/21/77

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

2 VERTICILLIUM WILT 0 FUSARIUM WILT 0 ROOT KNOT NEMATODE 2 BACTERIAL BLIGHT (Race 1)
 2 BACTERIAL BLIGHT (Race 2) 1 ASCOCHYTA BLIGHT 1 PHYMATOTRICHUM ROOT ROT 2 RHIZOCTONIA
 0 ANTHRACNOSE 0 RUST 0 OTHER (Specify) BAC Blight 7 & 18 race 3/24-77

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

1 BOLL WEEVIL 0 APHID 2 FLEAHOPPER 0 LEAFWORM
 0 FALL ARMYWORM 0 GRASSHOPPER 0 LYGUS 0 PINK BOLLWORM
 2 STINKBUG 2 THRIP 0 CUTWORM 0 SPIDERMITE
 0 OTHER (Specify) _____

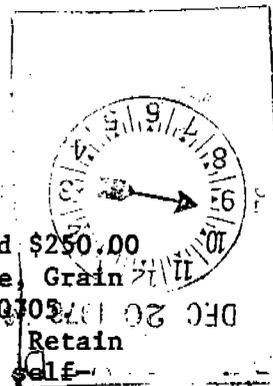
REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

- (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.

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.



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.)

TABLE III-
MIRONAIRE COMPARISON
& BOLL SIZE

Cotton test, Friars Point, Mississippi, 1976; plant bug damage only,
 Until August 1, machine picked, November 11, 1976.

	Lint/ acre	Boll wt. grams	% lint	Micro	Staple	Color	Color no.
DES018	660 a	5.3	42.6	4.1	35	Mid	31
GP3774	572 ab	6.3	40.0	4.7	34	Mid	31
GP3783	545 bc	6.2	42.7	3.8	35	Mid	31
ORH	512 bc	6.2	38.1	4.6	35	Mid	31
SP37	473 bc	6.9	42.5	3.8	34	Mid	31
HG6-IN	473 bc	5.0	41.0	4.3	34	Mid	31
GP-3755	460 cd	6.9	41.4	4.0	35	Mid	31
HGBR8	377 de	4.7	42.7	4.2	35	Mid	31
ORS	327 e	4.9	40.1	4.2	34	Mid	31
CAMD-S	303 e	6.0	41.0	3.9	35	Mid	31

Billy John Harrison
6 miles Southwest of Jayton

Variable	estimated yield	%lint turnout	micronaire	grade	staple
<u>No Burs</u>					
GP 3774	(204)	26.9	(4.8)	41	32
Lankart 611	102	20.4	4.2	32	30
Tamcot SP37	(141)	26.6	(3.9)	41	31
<u>Burs Added</u>					
GP 3774	251	26.7	(4.3)	41	32
Lankart 611	262	26.0	4.0	41	33
Tamcot SP37	236	27.0	(4.0)	41	33
<u>Johnson Place</u>					
Lankart 611	194	23.8	4.5	41	32
Tamcot SP37	262	25.8	(3.9)	41	33

Average yield on entire farm was 259# lint/row acre.

Berda fine sandy loam soil type.

All varieties were planted on a 2x2 skip row pattern.. Estimated yields were determined by a sample pulled from 13' row space.

Cotton breeders Edwin Gerik and Dan Pustejowsky visited the variety plot on 20 November 1976.

TABLE-IX

Summary of Data, 1977
Cotton Variety Test
Dallas

Variety	Lbs. lint per acre/	Lint % Picked Pulled	Boll size ²	SR3/	Grade	Staple length
CAMD-H	516 a	36.4 28.2	96	3.3	SM	30
Stoneville 213	508 ab	36.3 27.0	104	2.8	M+	32
Lockett 77	496 abc	35.4 26.8	84	2.9	SM	31
G & P 3755	482 abcd	34.6 26.4	88	3.3	SM	30
CAMD-E	481 abcd	35.8 27.4	100	2.9	M+	30
G & P 3774	474 abcd	36.4 28.0	92	3.1	SM	31
Deltapine SR-4	464 abcde	34.6 26.4	100	3.1	SM	30
TAMCOT SP-37	463 abcde	36.2 27.6	96	3.3	SM	31
Pioneer Exp. 560-2	455 abcde	34.7 26.3	102	2.7	M+	30
Dunn 119	454 abcde	34.6 24.3	94	3.2	M	31
McNair 307	448 abcde	34.8 25.8	94	2.9	SM	31
McNair 308	448 abcde	34.4 26.0	91	3.1	M+	32
Prolific Stormproof	448 abcde	34.6 26.2	87	3.7	SM	30
Pioneer Exp. 99-2	445 abcde	33.8 25.3	91	3.3	M+	30
GSA-71	429 abcdef	34.3 25.4	91	3.1	SM	30
Mo. 63-277BR-1A	408 abcdef	34.4 26.6	91	3.1	SM	31
Lockett 4789A	408 abcdef	34.2 26.0	90	3.5	SM	31
Paymaster 5291-1	401 bcdef	32.3 24.3	98	3.3	SM	32
Westburn M	401 bcdef	34.4 26.6	92	3.3	M+	31
Dunn 224	398 bcdef	33.8 25.7	90	3.3	SM	32
Stripper 31A	395 bcdef	32.2 24.7	102	3.3	SM	29
Paymaster 111A	388 cdef	33.2 24.4	83	3.0	SM	30
Lankart Sel. 611	384 cdef	35.6 25.9	87	3.2	SM	30
Lankart LX571	382 cdef	35.5 26.8	76	3.2	SM	30
Cascot L-7	380 def	35.7 26.2	96	3.0	M+	31
TPSA-970	379 def	37.0 27.4	108	2.8	SM	32
Deltapine SR-2	372 def	34.0 25.4	98	3.1	M+	31
TX-ORLE-76C	369 def	32.6 24.5	94	3.2	SM	32
TX-ORHA-76C	350 ef	32.0 24.0	113	3.3	SM	31
Paymaster 303	331 f	33.2 24.5	97	3.1	SM	30

Avg. all entries 425
C.V., % 15.5

- 1/ Means having a letter in common do not differ significantly at 0.5 probability level.
- 2/ Number of bolls per pound of seed cotton.
- 3/ Visual rating of storm resistance: 1=very loose; 2=normal open boll; 3=intermediate storm-resistance; 4=stormproof.

B-1

B-1

Table 1. Performance of cotton cultivars in a 1976 planting on the Henry Theum farm. Hill County¹, Robert Hoermann and Bill Buxkemper.

Cultivar	Lint yield per acre lbs.	Boll size ²	Lint percent		Grade	Fiber	Micro- naire
			Seed cotton %	Bur cotton %		Staple 32nd inch	
G&P 3755	1176a ³	81 ^o	39.2	29.7	SL+	33	3.8 ^o
TX-CAMD-S-75C	1120ab	62	41.0	31.6	SL+	34	4.0
Coker 5110	1114ab	92	40.5	30.6	LM	34	4.2
TX-SP37-75C	1082abc	329	39.8	30.4	SL+	33	3.7
Tamcot SP37	1070abcd	94 ^o	38.2	29.4	SL	33	3.6 ^o
TX-ORLE-75C	1052abcd	88	36.5	28.4	SL	32	4.3
G&P 3774	1030abcde	87 ^o	39.2	29.8	SL+	32	3.9 ^o
TPSA 1633	1020abcde	78	39.2	29.3	M	32	4.8
TX-Blank-75C	1010abcdef	87	38.4	29.2	M	33	4.8
Dunn 120	1004abcdef	88	38.7	28.2	SL	33	4.4
G&P 3783	988 bcdefg	86	38.2	28.9	LM	33	4.0
TX-Lewis-75C	982 bcdefg	92	39.3	29.8	M	32	3.9
TX-MAR-75C	972 bcdefgh	99	38.9	30.0	SL+	32	4.2
TX-SP21-75C	958 bcdefgh	86	39.0	29.0	M	32	4.2
TX-Bonham-75C	944 bcdefgh	82	38.2	29.1	M	32	4.2
TX-CAMD-H-75C	924 cdefgh	103	37.3	27.0	M	33	4.3
TX-Lyman-75C	916 cdefghi	74	38.2	29.5	M	33	3.7
Deltapine SR-4	912 cdefghi	93	39.3	30.6	M	33	4.8
Deltapine SR-2	904 defghi	79	38.2	29.0	M	33	5.4
Lankart 571	874 efghi	66	37.3	28.0	M	32	5.3
TX-OR-H-75C	870 efghi	87	35.9	27.0	SL	32	4.3
Paymaster 303	840 fghi	73	36.0	27.1	M	32	3.7
Paymaster 202	824 ghi	81	38.0	28.6	M	32	4.2
Lankart 57	804 hi	68	38.9	28.7	SIM+	34	4.6
Dunn 119	798 hi	76	37.3	26.1	SL	33	4.8
TX-OR-S-75C	744 i	101	36.5	28.0	M	33	3.6

¹Planted April 14, 1976, 80-40-0 following cotton in 1975. Harvested October 1, 1976.

²The number of bolls required to produce one pound of seed cotton.

³Averages followed by the same letter are equal according to Duncan's test for the 5% level of probability.

Table 2. Performance of cotton cultivars in a 1976 planting on the Willie Giltmeier farm, Hill County¹, Robert Hoermann and Bill Buxkemper.

Cultivar	Lint yield per acre	Boll size ²	Lint percent		Grade	Fiber	
			Seed cotton	Bur cotton		Staple 32nd	Micro- naire
	lbs.		%	%		inch	
G&P 3783	881a ³	97	40.0	28.4	SL	30	4.3
TX-CAMD-S-75C	817ab	91	42.9	31.4	M	32	4.4
TX-Lewis-75C	804ab	106	41.9	28.9	SM	34	4.5
G&P 3774	804ab	96	40.4	28.3	LM+	32	4.8
G&P 3755	792abc	90	39.0	27.7	SL+	32	4.4
Tamcot SP37	780abc	104	40.8	29.3	M	32	4.0
TX-Bonham-75C	738abcd	103	41.2	29.5	SL	32	4.8
TX-SP21-75C	714abcd	97	40.2	29.0	SL	32	4.4
TX-MAR-75C	697 bcde	113	40.6	29.3	M	33	4.4
TX-ORLE-75C	690 bcde	103	40.5	28.3	SL	32	4.8
TX-SP37-75C	676 bcdef	104	37.7	26.6	M	31	3.9
Deltapine SR-4	667 bcdef	115	40.3	29.5	SL	32	4.9
Lankart 57	656 bcdef	80	38.7	27.1	M	33	4.7
Deltapine SR-2	652 bcdef	96	37.8	26.7	M	33	5.2
TX-OR-S-75C	645 bcdefg	146	40.8	28.3	SL+	32	4.7
Paymaster 303	645 bcdefg	96	38.6	27.8	M	31	4.8
TX-CAMD-H-75C	627 cdefg	111	39.8	29.3	M	32	4.7
TX-OR-H-75C	623 cdefg	115	35.4	24.9	SL	31	4.0
Paymaster 202	605 defg	106	39.2	27.5	SL+	29	4.5
Coker 5110	594 defg	105	41.8	30.0	SL+	33	5.3
TPSA 1633	592 defg	103	40.8	28.2	M	35	5.0
TX-Blank-75	533 efg	121	34.6	24.2	SL+	32	4.9
Dunn 120	515 fg	97	40.0	27.7	M	34	4.7
TX-Lyman ⁴	511 fg	102	42.8	29.7	SL+	33	3.7
Dunn 119	475 g	84	36.0	24.0	SL	33	4.4

¹Planted April 2, 1976, 68-68-0 following grain sorghum in 1975. Harvested October 21, 1976.

²The number of bolls required to produce one pound of seed cotton.

³Averages followed by the same letter are equal according to Duncan's test for the 5% level of probability.

⁴Some yield lost to rodents.

COTT

PV No. 7700018

'6P 3774' (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.