

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 TO 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 EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES 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 3755'

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:

[Signature]
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

[Signature]
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY GP 3755		1b. VARIETY NAME GP 3755		FOR OFFICIAL USE ONLY PV NUMBER 7700019	
2. KIND NAME Cotton, upland		3. GENUS AND SPECIES NAME Gossypium hirsutum		FILING DATE 12-20-76	
4. FAMILY NAME (BOTANICAL) Malvaceae		5. DATE OF DETERMINATION Sept. 15, 1975		TIME 9:15 ^{A.M.} _{P.M.}	
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		FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00	
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		DATE 12-20-76 2-28-77 9-26-78	
				8. TELEPHONE AREA CODE AND NUMBER 817 694-3654	
				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.) 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.

12-14-76
(DATE)

(DATE)

Edwin J. Gerik, Jr.
(SIGNATURE OF APPLICANT)

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(SIGNATURE OF APPLICANT)

Exhibit A--Origin and Breeding History of GP 3755

1. Genealogy, including public and private varieties, lines, or clones used and breeding method.

Designation GP 3755 as name of variety.

Select a high yielding plant showing good quality fiber, storm resistant bolls, early maturing out of seed stocks of Tamcot SP 37, furnished by Dr. L. S. Bird, Texas Agricultural Experiment Station.

2. Original plant produced 16 bolls (9-5 and 7-4 locks), showed slick leaves, seed planted in a row 48 yards long in 1973, which produced 22 lbs. seed cotton, ginning out 13 lbs. seed, miked 4.3, and stapled 1" plus. Seed planted in 1974 in two rows 800 yards long, cultivated, poisoned, and cared for the same as the general crop. It produced 171 lbs. of seed, which was harvested and tested as above. Planted in 1975, 13.2 acres produced 14 bales, 6656 lbs. of lint, 27.5% lint, 43.3% seed, staple 1" plus, micronaire 4.3, and strength 87.5.

3. Each year production has been carefully checked and no variants from the original type have been found over a three year period.

Supplement to Exhibit A

'GP 3755'

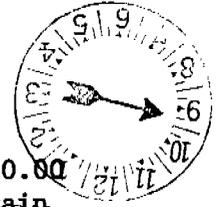
PV # 7700019

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

J. P. Seed Co. Inc.

By E. J. Hill, Sec.

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.)

Exhibit B

'GP3755'

PV # 7700019

'GP3755' most closely resembles 'Tamcot SP37' and 'GP3774'. 'GP3755 has larger bolls: .30-.40 grs. more seed cotton per boll than 'GP3774' and .40-.70 grs. more seed cotton per boll than 'Tamcot SP37'. 'GP 3755" has a coarser fiber (.3-.4 higher micronaire) than 'Tamcot SP37'.

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 7700019
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 622 Whitney, Texas 76692	VARIETY NAME OR TEMPORARY DESIGNATION GP 3755

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): *99th 2/27/78 / letter 2/20/78 1/23/78*

Some what NO. OF DAYS EARLIER THAN }
 NO. OF DAYS LATER THAN }
1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
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 1 = FOLIAGE SPARSE 2 = DENSE
3 = OTHER (Specify) medium

5. PLANT HEIGHT:

CM. SHORTER THAN }
 CM. TALLER THAN }
1 = COKER 310 2 = DELTAPINE 16 3 = STONEVILLE 213
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: 1 = GLABROUS (HAIRS AS SPARSE AS D₂ SMOOTH) *5/2/77*
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) ✓ 3 = PUBESCENT (STONEVILLE 213) *98th*
4 = HEAVY PUBESCENCE (H₁ OR H₂) 5 = OTHER (Specify) smoother than 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 2 = HIGH BUD GOSSYPOL **5**

14. SEEDS:

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

Exhibit D--Description of Variety, GP 3755

Description is as follows:

Seed oval, short, white linters, delinted blackish, weight index 10.0- 11.0; normal germination 7-10 days; flowers begin first fruiting which arise from 5 to 7 node; square period approximately 21 days. First open cotton 105-110 days; fruiting appears upward and outward as the plant develops.

Where there is space, plant may give rise of 1 to 3 vegetative branches. Close spaced plants bear no vegetative branches. Stalk height is more uniform than SP 37.

Leaves 3-5 lobes, light green in color, glabrous to slightly pubescent. Mature plant shows oval oblong green bolls.

Cupped burrs hold seed cotton firmly. The smoother leaf cleans up to a grade higher, leaf and bract thrash cleans out easier during harvesting, ginning, and processing.

GP 3755 is ~~five to seven days later~~ ^{some what earlier} in maturing for mechanical harvest than Tamcot SP 37.

change by phone 8/30/78 2:45pm

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.

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Table-IX

Summary of Data, 1977 Cotton Variety Test Dallas

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

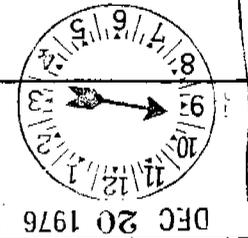
Avg. all entries 425
C.V., % 15.5

- 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.

Sp 3755

15. BOLLS:

2 Locules: 1 = 3-4
 2 = 4-5 36 NO. SEEDS PER BOLL 39 LINT PERCENT 35 MM. DIAMETER
 2 Pitted: 1 = NONE
 2 = FINELY 69 GRAMS SEED COTTON PER BOLL 2 Breadth: 1 = BROADER AT BASE
 3 = COURSELY 2 = BROADER AT MIDDLE
 2 Type: 1 = STORMPROOF (WESTBURN 70)
 2 = STORM RESISTANT (LANKART 57) 3 Shape: 1 = LENGTH < WIDTH
 3 = OPEN (DELTAPINE 16) 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-

PERCENT LESS THAN } 1 = COKER 310 2 = DELTAPINE 16 STONEVILLE 213
 6 PERCENT MORE THAN 8 } 4 = PAYMASTER 111 5 = ACALA 1517-708. 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% 93 SPAN LENGTH 2.5% U.H.M. LENGTH
 MEAN LENGTH 93 STAPLE LENGTH 32nd INCHES
 UNIFORMITY RATIO (MEAN/U.H.M.) 45 UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

8 7 5 1,000 P.S.I. 65 ELONGATION E₁
 4 0 MICRONAIRE READING 1 9 5 YARN STRENGTH (Give test method) STILOMETER T₀
 1/8 " G/TEX 1/8 " G/TEX 195 STILOMETER T₁

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

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

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

2 BOLL WEEVIL APHID 2 FLEAHOPPER LEAFWORM
 2 FALL ARMYWORM GRASSHOPPER 2 LYGUS PINK BOLLWORM
 2 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.

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.

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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 No.	Lint percent		Fiber		
			Seed cotton %	Bur cotton %	Grade	Staple 32nd inch	Micro- naire
G&P 3755	1176a ³	81	39.2	29.7	SL+	33	3.8
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	38.2	29.4	SL	33	3.6
TX-ORLE-75C	1052abcd	88	36.5	28.4	SL	32	4.3
G&P 3774	1030abcde	87	39.2	29.8	SL+	32	3.9
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	SLM+	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.

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TABLE-VIII

MICRONAIRE COMPARISON SP-3755+ SP 37
 & Boll Size in Boll per lb.

Summary of Data, 1977
 Cotton Variety Test
 Uvalde

→ NEXT PAGE

Variety	Lbs. lint per acre ₁ /	Lint % Pulled	Pulled	Boll size ₂ /	Grade	Staple length
G & P 4555	662 a	32.6	25.6	65 696	SM	33
McNair 220	646 a	34.2	26.6	77	M+	33
McNair 3035	620 ab	35.4	28.0	77	M+	33
TAMCOT SP-21	610 ab	33.8	26.4	68	M+	32
TAMCOT SP-37	605 ab	33.6	26.5	76 596	M+	33
Coker 304	596 ab	32.7	26.0	76	M+	33
Stoneville 213	590 ab	34.4	27.0	81	M	33
Stoneville 731N	590 ab	36.9	28.8	88	M+	33
Deltapine 55	564 ab	34.6	27.0	73	M	34
Deltapine 15	562 ab	32.8	25.9	73	SM	33
TPSA-1633	562 ab	32.2	24.8	68	M	34
Deltapine SR-4	539 ab	31.4	24.6	80	M+	32
GSA-71	515 b	32.2	24.9	68	SM	32
TPSA-970	493 b	34.6	26.9	78	M+	33
Lockett 77	492 b	31.4	24.0	74	M+	32
HG-3-8	359 c	30.6	22.6	109	M	32

Avg., all entries 562
 C.V., % 10.0

- 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.

Summary of Data, 1977
Cotton Variety Test
Uvalde

Right-hand continuation

Fiber Properties ^{1/}			
2.5% SL	UR	Micro- naire	MPSI
1.12	46	3.80	84.4
1.14	44	3.65	91.2
1.15	46	3.90	91.3
1.12	45	3.33	84.0
1.10	43	3.25	80.8
1.19	44	3.58	84.4
1.10	44	3.95	87.1
1.08	45	4.28	90.6
1.15	44	3.63	92.6
1.13	44	4.00	88.4
1.12	44	3.55	89.2
1.11	45	3.42	89.0
1.06	48	3.88	84.6
1.16	46	4.10	89.1
1.08	46	3.10	87.7
1.03	45	3.22	91.0

HP-3755

SP-37-

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

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TABLE-III-
 MIRONAIRE COMPARISON
 of 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

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		Fiber		
			Seed cotton	Bur cotton	Grade	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 ⁴	40.4	28.3	LM+	32	4.8
G&P 3755	792abc	90 ⁴	39.0	27.7	SL+	32	4.4
Tamcot SP37	780abc	104 ⁴	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.

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Summary of Data, 1976
Cotton Variety Test
San Patricio County

Variety	Lbs. lint per acre ^{1/}	Lint % Picked	Lint % Pulled	Boll size	Grade	Staple length
McNair 3035	1148	37.2	29.2	77	SLM	32
* G & P 3755	980	37.6	31.3	83	M	32
TAMCOT SP-21	978	37.0	29.1	81	SLM	32
Stoneville 213	951	36.3	31.3	93	SLM	32
Coker 5110	923	36.8	34.6	82	M	32
CAMD-H-75C	923	36.0	29.2	94	SLM+	32
Stoneville 731N	911	38.0	31.2	92	SLM+	33
CAMD-S-75C	890	36.6	29.0	86	SLM+	32
Deltapine 55	885	39.7	31.4	86	SLM	32
Deltapine SR-2	882	33.6	28.8	85	M	32
Stoneville 256	877	36.4	29.7	88	SLM+	33
Lockett 77	875	36.6	30.3	80	M	31
Deltapine SR-1	871	37.1	31.4	89	M	32
Deltapine 16	867	38.0	30.4	91	M	34
Coker 312	859	36.2	28.6	84	SLM+	35
TX OR-S 75C	846	35.8	27.8	107	M	32
Quapaw	834	34.3	27.6	75	M	32
TAMCOT SP-37	816	38.0	32.3	94	SLM+	33
Deltapine 61	806	36.8	32.0	94	M	33
Coker 310	786	35.8	28.4	80	SLM	34
TPSA 1633	777	34.0	26.4	78	SLM+	33
Stoneville 603	684	36.3	27.8	88	SLM	33
Lamkart Sel. 611	671	33.0	25.6	66	SLM+	33
Stripper 31A	608	31.4	24.4	92	SLM+	31
Coker 3114	607	36.4	28.7	86	SLM	34

^{1/} Means having a letter in common do not differ significantly at .05 probability level.

^{2/} Number of bolls per pound of seed cotton.

G & P Seed Co., Inc.

Box 622, Whitney, Tex.

Ph. 817-694-3654

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~~B-8~~

Summary of Data, 1976
Cotton Variety Test
San Patricio County

Variety	Fiber Properties ^{1/}			
	2.5 SL	UI	Micro- naire	MPSI
McNair 3035	1.10	49	4.35	77.7
G & P 3755	1.07	49	4.15	75.4
TAMCOT SP-21	1.06	47	4.20	77.1
Stoneville 213	1.08	52	4.95	73.4
Coker 5110	1.12	50	4.40	75.8
CAMD-H-75C	1.06	50	4.40	78.6
Stoneville 731N	1.06	47	4.90	83.4
CAMD-S-75C	1.06	49	3.85	75.2
Deltapine 55	1.02	47	4.85	79.8
Deltapine SR-2	1.04	46	4.60	79.9
Stoneville 256	1.08	49	4.45	82.7
Lockett 77	1.04	52	4.10	83.5
Deltapine SR-1	0.98	51	4.60	89.9
Deltapine 16	1.10	51	4.85	76.4
Coker 312	1.12	45	4.80	81.0
TX OR-S 75C	1.04	47	4.10	79.2
Quapaw	1.07	50	5.20	88.0
TAMCOT SP-37	1.05	46	3.85	76.9
Deltapine 61	1.04	50	4.90	75.7
Coker 310	1.14	49	4.40	80.6
TPSA 1633	1.10	46	4.30	82.4
Stoneville 603	1.06	49	4.55	76.4
Lankart Sel. 611	1.02	49	4.25	70.1
Stripper 31A	0.94	51	5.70	79.4
Coker 3114	1.16	48	3.80	79.2

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

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APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY GP 3755		1b. VARIETY NAME GP 3755		FOR OFFICIAL USE ONLY PV NUMBER 7700019	
2. KIND NAME Cotton, upland		3. GENUS AND SPECIES NAME Gossypium hirsutum		FILING DATE 12-20-76	
4. FAMILY NAME (BOTANICAL) Malvaceae		5. DATE OF DETERMINATION Sept. 15, 1975		TIME 9:15 P.M.	
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		FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00	
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		DATE 12-20-76 2-28-77 9-26-78	
				8. TELEPHONE AREA CODE AND NUMBER 817 694-3654	
				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.) 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.

12-14-76

(DATE)

Edwin J. Gerik Sr.

(SIGNATURE OF APPLICANT)

(DATE)

1

(SIGNATURE OF APPLICANT)

Exhibit A--Origin and Breeding History of GP 3755

1. Genealogy, including public and private varieties, lines, or clones used and breeding method.

Designation GP 3755 as name of variety.

Select a high yielding plant showing good quality fiber, storm resistant bolls, early maturing out of seed stocks of Tamcot SP 37, furnished by Dr. L. S. Bird, Texas Agricultural Experiment Station.

2.. Original plant produced 16 bolls (9-5 and 7-4 locks), showed slick leaves, seed planted in a row 48 yards long in 1973, which produced 22 lbs. seed cotton, ginning out 13 lbs. seed, miked 4.3, and stapled 1" plus. Seed planted in 1974 in two rows 800 yards long, cultivated, poisoned, and cared for the same as the general crop. It produced 171 lbs. of seed, which was harvested and tested as above. Planted in 1975, 13.2 acres produced 14 bales, 6656 lbs. of lint, 27.5% lint, 43.3% seed, staple 1" plus, micronaire 4.3, and strength 87.5.

3. Each year production has been carefully checked and no variants from the original type have been found over a three year period.

Rep Seed code

By E. J. L. h, Sec.

Supplement to Exhibit A

'GP 3755'

PV # 7700019

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

GP Seed code

By E. J. Hutch, Sec.

Exhibit B

'GP3755'

PV # 7700019

'GP3755' most closely resembles 'Tancot SP37' and 'GP3774'. 'GP3755 has larger bolls: .30-.40 grs. more seed cotton per boll than 'GP3774' and .40-.70 grs. more seed cotton per boll than 'Tancot SP37'. 'GP 3755" has a coarser fiber (.3-.4 higher micronaire) than 'Tancot SP37'.

OBJECTIVE DESCRIPTION OF VARIETY
COTTON (GOSSYPIUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

G & P Seed Co., Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P. O. Box 622
Whitney, Texas 76692

FOR OFFICIAL USE ONLY

PVPO NUMBER

7700019

VARIETY NAME OR TEMPORARY DESIGNATION

GP 3755

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): *ggff 2/27/78 / later 2/24/78 1/23/78*

Some what 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 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:

} 1 = GLABROUS (HAIRS AS SPARSE AS D₂ SMOOTH) *5/2/77*
 } 2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) ✓ 3 = PUBESCENT (STONEVILLE 213) *78*
4 = HEAVY PUBESCENCE (H₁ OR H₂) 5 = OTHER (Specify) smoother than 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 2 = HIGH BUD GOSSYPOL

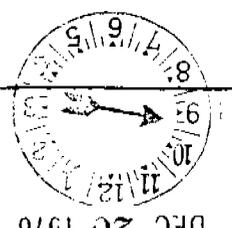
14. SEEDS:

5/2/77 ggff SEED INDEX (Fuzzy seed basis) Seed Fuzz: 1 = SPARSE (GREGG 35) 2 = MODERATE (DPL-16) 3 = HEAVY (ACALA SJ-1) 4 = OTHER (Specify) Tamcot SP 37

HP 3755

15. BOLLS:

2 Locules: 1 = 3-4
 2 = 4-5 36 NO. SEEDS PER BOLL 39 LINT PERCENT 35 MM. DIAMETER
 2 Pitted: 1 = NONE
 2 = FINELY 69 GRAMS SEED COTTON PER BOLL 2 Breadth: 1 = BROADER AT BASE
 3 = COURSELY *99th 5/4/77* 2 = BROADER AT MIDDLE
 2 Type: 1 = STORMPROOF (WESTBURN 70) 3 Shape: 1 = LENGTH < WIDTH
 2 = STORM RESISTANT (LANKART 57) 2 = LENGTH = WIDTH
 3 = OPEN (DELTAPINE 16) 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...

PERCENT LESS THAN 1 = COKER 310 2 = DELTAPINE 16 9 = STONEVILLE 213
 6 PERCENT MORE THAN 8 4 = PAYMASTER 111 5 = ACALA 1517-708, 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% 93 SPAN LENGTH 2.5% U.H.M. LENGTH
 MEAN LENGTH 93 STAPLE LENGTH 32nd INCHES
 UNIFORMITY RATIO (MEAN/U.H.M.) 45 UNIFORMITY INDEX (50% SPAN/2.5% SPAN)

19. FIBER STRENGTH AND ELONGATION:

875 1,000 P.S.I. 65 ELONGATION E₁ STILOMETER T₀
 39 MICRONAIRE READING *99th 11/21/77* 195 STILOMETER T₁
 195 YARN STRENGTH (Give test method) *1/8" G/Tex*

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

0 VERTICILLIUM WILT 2 FUSARIUM WILT 2 ROOT KNOT NEMATODE 2 BACTERIAL BLIGHT (Race 1)
 2 BACTERIAL BLIGHT (Race 2) 1 ASCOCHYTA BLIGHT 0 PHYMATOTRICHUM ROOT ROT 2 RHIZOCTONIA
 0 ANTHRACNOSE 0 RUST OTHER (Specify) *BAC Blight*

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

2 BOLL WEEVIL APHID 2 FLEAHOPPER LEAFWORM
 2 FALL ARMYWORM GRASSHOPPER 2 LYGUS PINK BOLLWORM
 2 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.

Exhibit D--Description of Variety, GP 3755

Description is as follows:

Seed oval, short, white linters, delinted blackish, weight index 10.0- 11.0; normal germination 7-10 days; flowers begin first fruiting which arise from 5 to 7 node; square period approximately 21 days. First open cotton 105-110 days; fruiting appears upward and outward as the plant develops.

Where there is space, plant may give rise of 1 to 3 vegetative branches. Close spaced plants bear no vegetative branches. Stalk height is more uniform than SP 37.

Leaves 3-5 lobes, light green in color, glabrous to slightly pubescent. Mature plant shows oval oblong green bolls.

Cupped burrs hold seed cotton firmly. The smoother leaf cleans up to a grade higher, leaf and bract thrash cleans out easier during harvesting, ginning, and processing.

GP 3755 is ~~five to seven days later~~ ^{some what earlier} in maturing for mechanical harvest than Tamcot SP 37.

change by phone 8/30/78 2:45pm

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	3.85	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.

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Table-1A

Summary of Data, 1977
Cotton Variety Test
Dallas

Variety	Lbs. lint per acre/	Lint %		Boll size ²	SR ₃ /	Grade	Staple length
		Picked	Pulled				
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
TAMCOF 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. 63-27BR-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.

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.

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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	Boll size ²	Lint percent		Fiber		
			Seed cotton	Bur cotton	Grade	Staple 32nd	Micro- naire
	lbs.		%	%		inch	
G&P 3755	1176a ³	81	39.2	29.7	SL+	33	3.8
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	38.2	29.4	SL	33	3.6
TX-ORLE-75C	1052abcd	88	36.5	28.4	SL	32	4.3
G&P 3774	1030abcde	87	39.2	29.8	SL+	32	3.9
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	SLM+	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.

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TABLE-VIII

MICRONAIRE COMPARISON SP-3755+ SP 37

4 BOLL SIZE IN BOLL PER LB.

Summary of Data, 1977

Cotton Variety Test

Uvalde

→ NEXT PAGE

Variety	Lbs. lint per acre		Lint %		Boll size ^{2/}	Grade	Staple length
	1/	Pulled	Pulled	Pulled			
G & P 4555	662 a	32.6	25.6	65	SM	33	
McNair 220	646 a	34.2	26.6	77	M+	33	
McNair 3035	620 ab	35.4	28.0	77	M+	33	
TAMCOT SP-21	610 ab	33.8	26.4	68	M+	32	
TAMCOT SP-37	605 ab	33.6	26.5	76	M+	33	
Coker 304	596 ab	32.7	26.0	76	M+	33	
Stoneville 213	590 ab	34.4	27.0	81	M	33	
Stoneville 731N	590 ab	36.9	28.8	88	M+	33	
Deltapine 55	564 ab	34.6	27.0	73	M	34	
Deltapine 15	562 ab	32.8	25.9	73	SM	33	
TPSA-1633	562 ab	32.2	24.8	68	M	34	
Deltapine SR-4	539 ab	31.4	24.6	80	M+	32	
GSA-71	515 b	32.2	24.9	68	SM	32	
TPSA-970	493 b	34.6	26.9	78	M+	33	
Lockett 77	492 b	31.4	24.0	74	M+	32	
HG-3-8	359 c	30.6	22.6	109	M	32	

Avg., all entries 562

C.V., % 10.0

- 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.

Summary of Data, 1977
Cotton Variety Test
Uvalde

Right-hand continuation

Fiber Properties ^{1/}			
2.5% SL	UR	Micro- naire	MPSI
1.12	46	3.80	84.4
1.14	44	3.65	91.2
1.15	46	3.90	91.3
1.12	45	3.33	84.0
1.10	43	3.25	80.8
1.19	44	3.58	84.4
1.10	44	3.95	87.1
1.08	45	4.28	90.6
1.15	44	3.63	92.6
1.13	44	4.00	88.4
1.12	44	3.55	89.2
1.11	45	3.42	89.0
1.06	48	3.88	84.6
1.16	46	4.10	89.1
1.08	46	3.10	87.7
1.03	45	3.22	91.0

HP-3755

SP-37-

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

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TABLE VIII-
MIRONAIRE COMPARISON
4 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

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 lbs.	Boll size ²	Lint percent		Grade	Fiber	
			Seed cotton	Bur cotton		Staple 32nd	Micro- naire
			%	%		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 ⁴	40.4	28.3	LM+	32	4.8
G&P 3755	792abc	90 ⁴	39.0	27.7	SL+	32	4.4
Tamcot SP37	780abc	104 ⁴	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.

Summary of Data, 1976
Cotton Variety Test
San Patricio County

Variety	Lbs. lint per acre ^{1/}	Lint % Picked	Lint % Pulled	Boll size	Grade	Staple length
McNair 3035	1148	37.2	29.2	77	SLM	32
* G & P 3755	980	37.6	31.3	83	M	32
TAMCOT SP-21	978	37.0	29.1	81	SLM	32
Stoneville 213	951	36.3	31.3	93	SLM	32
Coker 5110	923	36.8	34.6	82	M	32
CAMD-H-75C	923	36.0	29.2	94	SLM+	32
Stoneville 731N	911	38.0	31.2	92	SLM+	33
CAMD-S-75C	890	36.6	29.0	86	SLM+	32
Deltapine 55	885	39.7	31.4	86	SLM	32
Deltapine SR-2	882	33.6	28.8	85	M	32
Stoneville 256	877	36.4	29.7	88	SLM+	33
Lockett 77	875	36.6	30.3	80	M	31
Deltapine SR-1	871	37.1	31.4	89	M	32
Deltapine 16	867	38.0	30.4	91	M	34
Coker 312	859	36.2	28.6	84	SLM+	35
TX OR-S 75C	846	35.8	27.8	107	M	32
Quapaw	834	34.3	27.6	75	M	32
TAMCOT SP-37	816	38.0	32.3	94	SLM+	33
Deltapine 61	806	36.8	32.0	94	M	33
Coker 310	786	35.8	28.4	80	SLM	34
TPSA 1633	777	34.0	26.4	78	SLM+	33
Stoneville 603	684	36.3	27.8	88	SLM	33
Lamkart Sel. 611	671	33.0	25.6	66	SLM+	33
Stripper 31A	608	31.4	24.4	92	SLM+	31
Coker 3114	607	36.4	28.7	86	SLM	34

^{1/} Means having a letter in common do not differ significantly at .05 probability level.

^{2/} Number of bolls per pound of seed cotton.

G & P Seed Co., Inc.

Box 622, Whitney, Tex.

Ph. 817-694-3654

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Summary of Data, 1976
Cotton Variety Test
San Patricio County

Variety	Fiber Properties ^{1/}			
	2.5 SL	UI	Micro- naire	MPSI
McNair 3035	1.10	49	4.35	77.7
G & P 3755	1.07	49	4.15	75.4
TAMCOT SP-21	1.06	47	4.20	77.1
Stoneville 213	1.08	52	4.95	73.4
Coker 5110	1.12	50	4.40	75.8
CAMD-H-75C	1.06	50	4.40	78.6
Stoneville 731N	1.06	47	4.90	83.4
CAMD-S-75C	1.06	49	3.85	75.2
Deltapine 55	1.02	47	4.85	79.8
Deltapine SR-2	1.04	46	4.60	79.9
Stoneville 256	1.08	49	4.45	82.7
Lockett 77	1.04	52	4.10	83.5
Deltapine SR-1	0.98	51	4.60	89.9
Deltapine 16	1.10	51	4.85	76.4
Coker 312	1.12	45	4.80	81.0
TX OR-S 75C	1.04	47	4.10	79.2
Quapaw	1.07	50	5.20	88.0
TAMCOT SP-37	1.05	46	3.85	76.9
Deltapine 61	1.04	50	4.90	75.7
Coker 310	1.14	49	4.40	80.6
TPSA 1633	1.10	46	4.30	82.4
Stoneville 603	1.06	49	4.55	76.4
Lankart Sel. 611	1.02	49	4.25	70.1
Stripper 31A	0.94	51	5.70	79.4
Coker 3114	1.16	48	3.80	79.2

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

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