

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Delta and Pine Land Company

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (7 U.S.C. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'Deltapine 246'

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 27th day of January in the year of our Lord one thousand nine hundred and eighty-four.

Attest:

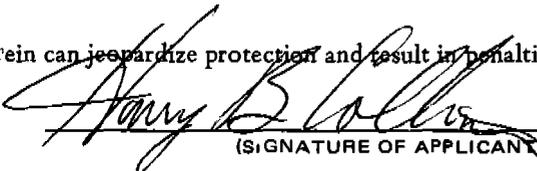
Kenneth A. Ewers
 Commissioner
 Plant Variety Protection Office
 Grain Division
 Agricultural Marketing Service

John R. Blank
 Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

No certificate for plant variety protection may be issued unless a completed application form has been received 15 U.S.C. 5531.

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY Deltapine 439		1b. VARIETY NAME Deltapine 246		FOR OFFICIAL USE ONLY PV NUMBER 8200102	
2. KIND NAME Soybean		3. GENUS AND SPECIES NAME <u>Maxine</u>		FILING DATE 4/14/82	TIME 2:30 P.M.
4. FAMILY NAME (BOTANICAL) Leguminosae		5. DATE OF DETERMINATION October 1976		FEE RECEIVED \$ 500.00 \$ <u>250.00</u>	DATE 4/14/82 12/19/83
6. NAME OF APPLICANT(S) Delta and Pine Land Company		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Scott, Mississippi 38772		8. TELEPHONE AREA CODE AND NUMBER (601) 742-3351	
9. IF THE NAME OF APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Delaware		11. DATE OF INCORPORATION 10/19/78	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Harry B. Collins Delta and Pine Land Company Scott, Mississippi 38772					
13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:					
<input type="checkbox"/> 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)					
<input type="checkbox"/> 13B. Exhibit B, Novelty Statement.					
<input type="checkbox"/> 13C. Exhibit C, Objective Description of the Variety (<i>Request form from Plant Variety Protection Office.</i>)					
<input type="checkbox"/> 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 <input type="checkbox"/> NO <input checked="" type="checkbox"/>					
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? YES <input type="checkbox"/> NO <input type="checkbox"/>		14c. IF "YES" TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
168. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> (If "Yes," give name of countries and dates.)					
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (If "Yes," give name of countries and dates.)					
16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
17. The applicant(s) declare(s) that a viable sample of basic seed 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 Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
3-24-82 (DATE)		 (SIGNATURE OF APPLICANT)			
(DATE)		(SIGNATURE OF APPLICANT)			

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. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, 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

- 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 uniformity and 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, 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.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

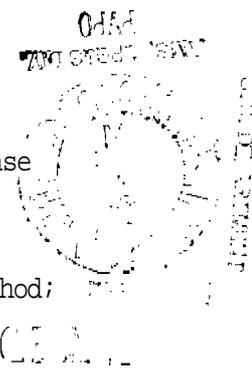


EXHIBIT A

DELTA AND PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 244Origin and Breeding History of the Variety

Deltapine 246 originated from the cross Lee 68 x D62-7816. The pedigree method of breeding was employed in selecting this variety. In 1976, a single plant row was bulked for yield testing in 1977. Two single plant selections were also selected from that F₄ plant row and each was grown in a plant row in 1977. One of the two plant rows was bulked and increased. At that time this strain was known as experimental strain Deltapine 439. From 1977 on concurrent yield testing and increasing of Deltapine 439 was carried out. Observations and roguing were conducted for three years on each increase generation through the year 1980. Based on these observations Deltapine 246 is stable for all observable characteristics,

Based on yield data obtained in 1977, Deltapine 246 was included in more advanced tests in 1978 and in more tests and locations in succeeding years. In 1980 and 1981 Deltapine 246 was included in yield tests conducted by Delta and Pine Land Company personnel and by several state experiment stations in the Southeastern United States, the Mid-South, and the Gulf Coast of Texas.

SEE EXHIBIT D FOR STATEMENT ON VARIANTS. RFS 5/10/82

EXHIBIT B

DELTA AND PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 246Novelty Statement

Deltapine 246 is most similar to the variety Lee 74. The principal differences between Deltapine 246 and Lee 74 are plant height, maturity date, foliage color, leaf shape, protein content, oil content, and seed size. Deltapine 246 is shorter (74.8 cm) than Lee 74 (79.9 cm). Deltapine 246 is earlier maturing (~~October 22~~) than Lee 74 (October 24). Deltapine 246 has a darker foliage than Lee 74. The most distinguishing difference between Deltapine 246 and Lee 74 is leaf shape. Deltapine 246 has a lanceolate shaped leaf (width/length = 3.4 cm/10.8 cm = 31.5) and Lee 74 has an ovate shaped leaf (5.7 cm/ 9.9 cm = 57.6). Deltapine 246 has a lower protein content (39.0%) than Lee 74 (40.1%). The oil content of Deltapine 246 (22.3%) is **higher** than Lee 74 (21.0%). Deltapine 246 has a smaller seed (3575 seed per pound) than Lee 74 (3266 seed per pound).

SUPPLEMENT TO APPLICATION FORM

Explanation of system for numbering tables

Tables connected with each exhibit are designated by the letter for that exhibit. Example "B".

Summary tables (those on which claims are based and information summarized) have the exhibit letter followed by a Roman numeral. For example, "Table B I - Average Data for 18 Tests Conducted in Mississippi, Louisiana, Arkansas in 1979, 1980, 1981."

Tables of performance in individual tests are used to bring together results from different years and locations. These data are used to calculate averages for varieties in years to be combined in a summary. These tables have an exhibit letter, B, followed by a summary table numeral, I, and an Arabic numeral, 1. For example, "Table B I 1 - Average Data for 9 Tests Conducted in Mississippi, Louisiana, and Arkansas in 1981 and Table B I 2 - Average Data for 5 Tests Conducted in Mississippi and Arkansas in 1980."

Copies of original tables of test results from which Table B I 1 is prepared are designated by a lower case letter. For example, "Table B I la - Early Merit Strain Tests - Scott, MS - Heavy Soil - 1981."

Copies of original test data collected by our Research Department are not included. These tables may contain data which is confidential but are available if necessary.

This system makes it easy to find the data on which any exhibit is based.

TABLE I
 AVERAGE DATA FOR 18 TESTS CONDUCTED IN MISSISSIPPI,
 LOUISIANA, AND ARKANSAS IN 1979, 1980, and 1981

	<u>Deltapine 246</u>	<u>Lee 74</u>	<u>Difference</u>
Flower Color ^{1/}	P	P	None
Pubescence Color ^{2/}	T	T	None
Plant Height (cm)	74.8	79.9	-5.1
Height 1st Pod From Ground (cm)	10.2	11.3	-1.1
Date of Maturity	10-22	10-24	-2.0
Lodging ^{3/}	1.6	1.7	-0.1
Metribuzin Reaction ^{4/}	1.3	1.3	None
Foliar Feeding Insect Damage ^{5/}	2.7	2.3	+0.4
Foliage Color ^{6/}	5.0	3.4	+1.6
Leaf Shape Ratio ^{7/}	31.5	57.6	-26.1
Reaction to <u>Phytophthora megasperma</u> - races 1 and 2 hypocotyl screening	R	R	None
Protein Content (%)	39.0	40.1	-1.1
Oil Content (%)	22.3	21.0	+1.3
Weight gm/100 Seed	12.7	13.9	-1.2
Seed Quality Rating ^{8/}	1.1	1.1	None
Seed Coat Luster ^{9/}	2.0	2.2	-0.2
Seed Coat Color ^{10/}	2.6	2.9	-0.3
Hilum Color	Black	Black	None

1/ P = Purple
 W = White

2/ T = Tawny
 G = Grey

3/ 1 = No lodging
 5 = Severe lodging

4/ 1 = Very tolerant
 5 = Plants killed'

5/ 1 = No feeding
 5 = Completely skeletonized

6/ 1 = Very light green
 5 = Very dark green

7/ $\frac{\text{Leaf width (cm)}}{\text{Leaf length (cm)}}$

8/ 1 = Very good quality
 5 = Very poor quality

9/ 1 = Very shiny
 5 = Very dull

10/ 1 = Deep yellow
 5 = Light yellow

TABLE B I 1
 AVERAGE DATA FOR 9 TESTS CONDUCTED IN MISSISSIPPI,
 LOUISIANA, AND ARKANSAS IN 1981

	<u>Deltapine 246</u>	<u>Lee 74</u>	<u>Difference</u>
Flower Color ^{1/}	P	P	None
Pubescence ^{2/}	T	T	None
Plant Height (cm)	73.7	79.3	-5.6
Height 1st Pod From Ground (cm)	9.7	10.9	-1.2
Date of Maturity	10-19	10-20	-1.0
Lodging ^{3/}	1.7	1.7	None
Metribuzin Reaction ^{4/}	1.3	1.3	None
Foliar Feeding Insect Damage ^{5/}	2.7	2.3	+0.4
Foliage Color ^{6/}	5.0	3.4	+1.6
Leaf Shape Ratio ^{7/}	31.5	57.6	-26.1
Reaction to <u>Phytophthora.megasperma</u> - races 1 and 2 <u>hypocotyl</u> screening	R	R	None
Weight gm/100 Seed	12.0	12.9	-0.9
Seed Quality Rating ^{8/}	1.1	1.1	None
Seed Coat Luster ^{9/}	2.3	2.3	None
Seed Coat Color ^{10/}	3.0	3.1	-0.1
Hilum Color	Black	Black	None

1/ P = Purple
W = White

2/ T = Tawny
G = Grey

3/ 1 = No lodging
5 = Severe lodging

4/ 1 = Very tolerant
5 = Plants killed

5/ 1 = No feeding
5 = Completely skeletonized

6/ 1 = Very light green
5 = Very dark green

7/ $\frac{\text{Leaf width (cm)}}{\text{Leaf length (cm)}}$

8/ 1 = Very good quality
5 = Very poor quality

9/ 1 = Very shiny
5 = Very dull

10/ 1 = Deep yellow
5 = Light yellow

TABLE B I 2
 AVERAGE DATA FOR 5 TESTS CONDUCTED IN
 MISSISSIPPI AND ARKANSAS IN 1980

	<u>Deltapine 246</u>	<u>Lee 74</u>	<u>Difference</u>
Flower Color ^{<u>1/</u>}	P	P	None
Pubescence ^{<u>2/</u>}	T	T	None
Plant Height (cm)	69.4	75.3	-5.9
Height 1st Pod From Ground (cm)	10.1	10.3	-0.2
Date of Maturity	10-30	10-31	-1.0
Lodging ^{<u>3/</u>}	1.2	1.3	-0.1
Reaction to <u>Phytophthora megasperma</u> - races 1 and 2 hypocotyl screening	R	R	None
Protein Content (%)	39.0	40.1	-1.1
Oil Content (%)	22.3	21.0	+1.3
Weight gm/100 Seed	13.9	15.6	-1.7
Seed Quality Rating ^{<u>4/</u>}	1.0	1.0	None
Seed Coat Luster ^{<u>5/</u>}	1.6	1.9	-0.3
Seed Coat Color ^{<u>6/</u>}	2.1	2.5	-0.4
Hilum Color	Black	Black	None

1/ P = Purple
 W = White

2/ T = Tawny
 G = Grey

3/ 1 = No lodging
 5 = Severe lodging

4/ 1 = Very good quality
 5 = Very poor quality

5/ 1 = Very shiny
 5 = Very dull

6/ 1 = Deep yellow
 5 = Light yellow

TABLE B I 3
 AVERAGE DATA FOR 4 TESTS CONDUCTED IN
 MISSISSIPPI AND ARKANSAS IN 1979

	<u>Deltapine 246</u>	<u>Lee 74</u>	<u>Difference</u>
Flower Color ^{1/}	P	P	None
Pubescence ^{2/}	T	T	None
Plant Height (cm)	84.2	87.3	-3.1
Height 1st Pod From Ground (cm)	11.5	13.3	-1.8
Date of Maturity	10-19	10-21	-2.0
Lodging ^{3/}	2.3	2.0	+0.3
Reaction to <u>Phytophthora megasperma</u> - races 1 and 2 hypocotyl screening	R	R	None

^{1/} P = Purple
 W = White

^{2/} T = Tawny
 G = Grey

^{3/} 1 = No lodging
 5 = Severe lodging

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
 BELTSVILLE, MARY LAND 20706

EXHIBIT C
 (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
 SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Delta and Pine Land Company	FOR OFFICIAL USE ONLY PVPO NUMBER 200102
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code) Scott, Mississippi 38772	VARIETY NAME OR TEMPORARY DESIGNATION DELTAPINE 246

place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:

c | 1 SPHERICAL 2 SPHERICAL FLATTENED 3 ELONGATE 4 OTHER (Specify) _____

2. SEED COAT COLOR: SHADE:

1 YELLOW 2 GREEN 3 BROWN 4 BLACK | 1 LIGHT 2 = MEDIUM 3 = DARK

5 OTHER (Specify) _____

3. SEED COAT LUSTER: 4. SEED SIZE

1 DULL 2 SHINY | 1 3 GRAMS PER 100 SEEDS

5. HILUM COLOR: SHADE:

6 BUFF 1 = YELLOW 2 = BROWN 3 = BROWN 4 GRAY 5 IMPERFECT BLACK | 3 LIGHT 2 MEDIUM 3 = DARK

6 = BLACK 7 OTHER (Specify) _____

6. COTYLEDON COLOR: 7. LEAFLET SIZE (See Reverse):

1 1 = YELLOW 2 = GREEN | a 2 1 = SMALL 2 = MEDIUM 3 = LARGE

8. LEAFLET SHAPE:

3 1 = OVATE 2 = OBLONG 3 LANCEOLATE 4 ELLIPTICAL 5 = OTHER (Specify) _____

9. LEAF COLOR (See reverse): 10. FLOWER COLOR:

3 1 LIGHT GREEN 2 MEDIUM GREEN 3 = DARK GREEN | 1 2 1 WHITE 2 = PURPLE

3 = OTHER (Specify) _____

11. POD COLOR: 12. POD SET:

1 1 = TAN 2 = BROWN 3 = BLACK | 1 1 = SCATTERED 2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR: SHADE:

a | 2 1 2 3 (Specify) _____ | 2 1 LIGHT 2 = MEDIUM 3 = DARK

14. PLANT TYPES (See Reverse): 15. PLANT HABIT:

c | 1 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE | c | 1 3 1 DETERMINATE 2 = INDETERMINATE

= OTHER (Specify) _____

16. HYPOCOTYL COLOR: 17. SEED PROTEIN:

2 1 GREEN 2 = PURPLE | EI 1 = A 2 = B

18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. 0 9) when days are 9 or less.) 19. MATURITY GROUP:

- - | 8 1 = 00 2 = 0 3 = I 4 = II 5 ***

6 = IV 7 = V 8 = VI 9 = VII 10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2) when size is 9 mm. or less.)

- - MM. LENGTH OF SEEDLING - MM. LENGTH OF COTYLEDON - MM. WIDTH OF COTYLEDON

21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

<input type="checkbox"/> 0 BACTERIAL PUSTULE	<input checked="" type="checkbox"/> 1 SOY BEAN CYST	<input type="checkbox"/> 0 DOWNY MILDEW	<input checked="" type="checkbox"/> 2 PURPLE STAIN	<input checked="" type="checkbox"/> 2 POD AND STEM BLIGHT	<input checked="" type="checkbox"/> 1 ROOT KNOT
<input type="checkbox"/> 0 FROGEYE	<input type="checkbox"/> 0 STEM CANKER	<input checked="" type="checkbox"/> 2 PHYTO-PHTHORA	<input type="checkbox"/> 0 BROWN STEM ROT	<input type="checkbox"/> 0 TARGET SPOT	<input type="checkbox"/> 0 BROWN SPOT,
<input checked="" type="checkbox"/> 0 BUD BLIGHT	<input type="checkbox"/> 0 WILDFIRE	<input type="checkbox"/> 0 RHIZOCTONIA ROT	<input type="checkbox"/> 0 OTHER (Specify) _____		

EXHIBIT D

DELTA AND PINE LAND COMPANY'S APPLICATION FOR DELTAPINE 246Additional Description of the Variety

Deltapine 246 is a group VI maturity soybean which matures approximately two days earlier than Lee 74. It has purple flowers, a tawny pubescence, and a tan pod wall. The foliage is dark green. The leaves of Deltapine 246 are lanceolate in shape (width/length = 3.4 cm/10.8 cm = 31.5). Other varieties with which Deltapine 246 was compared have broad leaves. The leaf-shape ratio of these varieties are as follows: Jeff (52.6), Lee 74 (57.6), Deltapine 506 (57.8), Braxton (57.8), Bragg (58.1), Centennial (62.3), and Tracy M (62.5). The seed coat color is medium yellow, The hilum color is black. The seed coat is shiny. The seed of Deltapine 246 (3575 seed per pound) is smaller than that of Centennial (3414), Deltapine 506 (3266), Lee 74 (3266), Bragg (3175), and Braxton (2873). Deltapine 246 has a lower protein content (39.0%) than Lee 74 (40.1%) and Tracy M (41.3%) and a higher protein content than Davis (38.5%) and Deltapine 506 (38.6%). The protein content of Deltapine 246 is similar to that of Bragg (39.0%), Braxton (39.1%), and Centennial (39.3%). The oil content of Deltapine 246 (22.3%) is higher than that of Lee 74 (21.0%), Bragg (21.0%), Deltapine 506 (20.3%), Centennial (20.0%), Braxton (19.7%), Tracy M (19.2%), and Davis (18.2%). Deltapine 246 is resistant to Phytophthora megasperma (races 1 and 2) which causes Phytophthora root rot. Deltapine 246 is shorter in height (74.8 cm) than Lee 74 (79.9 cm), Centennial (90.6 cm), Deltapine 506 (97.3 cm), and Bragg (101.7 cm).

As stated above, Deltapine 246 has purple flowers. Deltapine 246 has up to one (1) plant with white flowers in 2,000 plants. Deltapine 246 has a tawny pubescence with up to one (1) plant with grey pubescence in 2,000 plants. Deltapine 246 has lanceolate leaves with up to one (1) plant with non-lanceolate shaped leaves in 2,000 plants.

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Lee 74	Petiole angle	Lee 74
Leaf shape	SRF 200	Seed size	Lee 74
Leaf color	Essex	Seed shape	Lee 74
Leaf surface	Lee 74	Seedling pigmentation	Lee 74

7.3. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	Date of Maturity	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	10-22	1.6	74.8	3.4	10.8	39.0	22.3%	-	
Name of similar variety Lee 74	10-24	1.7	79.9	5.7	9.9	40.1	21.0	-	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

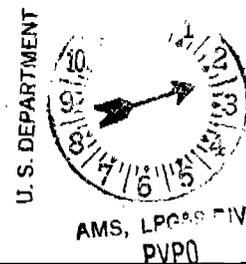
LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

RECEIVED
MAR 30 1962



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