

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Bryco Plant Research Division

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

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

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

SOYBEAN

'Brysoy 9'



*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 first day of May in the year of our Lord one thousand nine hundred and seventy-five*

Attest:

*R. J. Pollen*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Earl C. Butz*  
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION <b>Brysoy 9</b>	2. KIND NAME <b>Soybean</b>	FOR OFFICIAL USE ONLY	
		PV NUMBER <b>7400038</b>	
3. GENUS AND SPECIES NAME <b><u>Glycine max</u></b>	4. FAMILY NAME (Botanical) <b>Leguminosae</b>	FILING DATE <b>11/26/73</b>	TIME <b>11:00</b> A.M.
		FEE RECEIVED \$ <b>250.00</b>	BALANCE DUE \$ <b>—</b>
	5. DATE OF DETERMINATION <b>May 1969</b>	\$ <b>250.00</b>	\$ <b>—</b>
6. NAME OF APPLICANT(S) <b>Bryco Plant Research Division</b>	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) <b>P. O. Box C Leachville, Arkansas 72438</b>		8. TELEPHONE AREA CODE AND NUMBER <b>501-539-6624</b>
	9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) <b>Partnership</b>		10. STATE OF INCORPORATION <b>N/A</b>
		11. DATE OF INCORPORATION <b>N/A</b>	

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

Mr. W. R. Bryant  
Mr. William H. Bryant  
Dr. Dan Timmermann Jr.  
P. O. Box C  
Leachville, Arkansas 72438

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, Botanical Description of the Variety
- 13C. Exhibit C, Objective Description of the Variety
- 13D. Exhibit D, Data Indicative of Novelty
- 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

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

The applicant declares 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) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

July 10, 1974  
(DATE)

*Bryco Plant Research Division*  
*by William H. Bryant*  
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

## 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, 6525 Belcrest Road, Hyattsville, Maryland 20782. (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 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

7400038

EXHIBIT A

Origin and Breeding History of the Variety

1. Brysoy 9 originated on the Bryant Farms in Mississippi County, Arkansas. The initial selection was made in 1958 by Mr. W. R. Bryant from a field of 'Dorman' soybeans.
2. The initial seed was planted in subsequent years with continued selection, rouging, and increase. Selection emphasis was on increased height, rapid early season growth, increased early stage vigor, increased seed size, and total yield. Brysoy 9 was selected in 1968 followed by straight line increase.
3. Replicated yield tests on Brysoy 9 and tests for disease and insect resistance have been conducted for five years on the Bryant Farms. Cooperative Extension Service tests were conducted in 1972 at Harrisburg, Arkansas and at six locations in 1973. In addition, Brysoy 9 was tested in 1973 at five selected locations by the University of Arkansas Agricultural Experiment Station. Observations and data from the above tests indicate that genetically Brysoy 9 is stable. Variants appear to be primarily plants with off-type (non-purple) flowers (approximate frequency is one in 5000).

7400038

EXHIBIT B

Botanical Description of the Variety

Brysoy 9 is a tall, determinate, mid-season variety (maturity group VI). Plants have long, erect, dense, medium brown pubescence, purple flowers, large ovate leaflets, and scattered pod set. Leaf color is medium green when plants are grown on soils of moderate to high fertility. Mature pods have moderately thick walls, are medium brown in color, typically contain three seeds, and resist shattering. Seeds are large (weight 16-18 grams/100 seeds), slightly flattened spherically, with medium yellow seedcoat, dull seedcoat luster, light to medium brown hilum, and yellow cotyledons. Analysis of seed (1973 - Bryant Farms crop) showed 37.5 - 39.5 percent protein and 20.8 - 22.8 percent oil.

Brysoy 9 has vigorous early season growth resulting in favorable competition with weeds, excellent growth on low fertility soils, and produces high yields on a variety of soil types. It is resistant to phytophthora root rot, bacterial pustule, wildfire, and downy mildew. It has tolerance to race 3 soybean cyst nematode (yields well despite infestation).

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Bryco Plant Research Division

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

P.O. Box C  
Leachville, Arkansas 72438

FOR OFFICIAL USE ONLY

PVPO NUMBER

7400038

VARIETY NAME OR TEMPORARY DESIGNATION

Brysoy 9

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

1. SEED SHAPE:

1 = SPHERICAL     2 = SPHERICAL FLATTENED     3 = ELONGATE     4 = OTHER (Specify)

2. SEED COAT COLOR:

1 = YELLOW     2 = GREEN     3 = BROWN     4 = BLACK     5 = OTHER (Specify)    SHADE:  1 = LIGHT     2 = MEDIUM     3 = DARK

3. SEED COAT LUSTER:

1 = DULL     2 = SHINY

4. SEED SIZE

17 GRAMS PER 100 SEEDS

5. HILUM COLOR:

1 = BUFF     2 = YELLOW     3 = BROWN     4 = GRAY     5 = IMPERFECT BLACK     6 = BLACK     7 = OTHER (Specify)    SHADE:  1 = LIGHT     2 = MEDIUM     3 = DARK

6. COTYLEDON COLOR:

1 = YELLOW     2 = GREEN

7. LEAFLET SIZE (See Reverse):

1 = SMALL     2 = MEDIUM     3 = LARGE

8. LEAFLET SHAPE:

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

9. LEAF COLOR (See reverse):

1 = LIGHT GREEN     2 = MEDIUM GREEN     3 = DARK GREEN

10. FLOWER COLOR:

1 = WHITE     2 = PURPLE     3 = OTHER (Specify)

11. POD COLOR:

1 = TAN     2 = BROWN     3 = BLACK

12. POD SET:

1 = SCATTERED     2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR:

1 = GRAY     2 = BROWN     3 = OTHER (Specify)

SHADE:

1 = LIGHT     2 = MEDIUM     3 = DARK

14. PLANT TYPES (See Reverse):

1 = SLENDER     2 = BUSHY     3 = INTERMEDIATE

15. PLANT HABIT:

1 = DETERMINATE     2 = INDETERMINATE     3 = OTHER (Specify)

16. HYPOCOTYL COLOR:

1 = GREEN     2 = PURPLE

17. SEED PROTEIN:

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.)

63

19. MATURITY GROUP:

1 = 00     2 = 0     3 = I     4 = II     5 = III  
 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.)

174 MM. LENGTH OF SEEDLING

18 MM. LENGTH OF COTYLEDON

11 MM. WIDTH OF COTYLEDON

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

BACTERIAL PUSTULE

SOYBEAN CYST

DOWNY MILDEW

PURPLE STAIN

POD AND STEM BLIGHT

ROOT KNOT

FROGEYE

STEM CANKER

PHYTO-PHTHORA

BROWN STEM ROT

TARGET SPOT

BROWN SPOT

BUD BLIGHT

WILDFIRE

RHIZOCTONIA ROT

OTHER (Specify)

7400038

EXHIBIT D

Data Indicative of Novelty

In most characteristics Brysoy 9 resembles Pickett 71. However, Brysoy 9 has considerably larger leaf and leaflet dimensions, longer petioles, slightly darker pubescence, larger seeds (approximately 2700 seeds per pound), and a greater tendency to lodge on high fertility soils than Pickett 71. The general plant shape of Brysoy 9 resembles that of Lee 68.

7400038

EXHIBIT E

Statement of Applicant's Ownership

Bryco Plant Research Division, P. O. Box C, Leachville, Arkansas, believes it is the sole, original, and first breeder of the Brysoy 9 variety of soybean for which it solicits a certificate of protection.

## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Lee 68	Petiole angle	Pickett 71
Leaf shape	Pickett 71	Seed size	York
Leaf color	Pickett 71	Seed shape	Pickett 71
Leaf surface		Seedling pigmentation	Pickett 71

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	150-160	Medium	TALL	(Leaflet Size)					
Name of similar variety				120mm	170mm		%		
	Lee 68	Lee 68	DAVIS						

## 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.

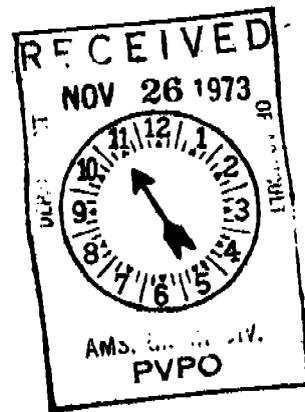
COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

**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"





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