



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Soybean Research Foundation, 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 EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, 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 (T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'PL 6940104'



*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 15th day of September in
the year of our Lord one thousand nine
hundred and seventy-seven*

Attest:

S. J. Rollin

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Bob Dwyer
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME PL 6940104	FOR OFFICIAL USE ONLY	
		PV NUMBER 7700037	
2. KIND NAME Soybeans	3. GENUS AND SPECIES NAME Glycine max (L.) Merr.	FILING DATE 1-31-77	TIME 11:30 ^{A.M.} _{P.M.}
4. FAMILY NAME (BOTANICAL) Leguminosae	5. DATE OF DETERMINATION February, 1975	FEE RECEIVED \$250.00	DATE 1-31-77
		\$250.00	3-17-77
		\$250.00	8-15-77
6. NAME OF APPLICANT(S) Soybean Research Foundation, Inc.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box #72 Mason City, Illinois 62664	8. TELEPHONE AREA CODE AND NUMBER 217 482-3219	
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 Illinois	11. DATE OF INCORPORATION April 28, 1965

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

Arnold L. Matson
Director of Soybean Breeding
Soybean Research Foundation, Inc.
Mason City, Illinois 62664

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 type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		
14B. Does the applicant(s) specify that this variety be limited as to number of generations?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	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
15. 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		

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.

Jan 25, 1977
(DATE)

Arnold L. Matson
(SIGNATURE OF APPLICANT)

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(DATE)

(SIGNATURE OF APPLICANT)

77-37

Application 7700037

PL 6940104

REVISED EXHIBITS A/S

Exhibit A -

PL 6940104 soybean (*Glycine max* (L.) Merr.) originated as a pure line from the selection of a single F₄ plant made in 1968 from the cross Grant x Wayne. In 1974, seed from 352 randomly selected F₉ plants from this line was grown in plant rows in an isolated plot. These were screened carefully and any rows which appeared to be different from the majority of the plot were destroyed. The plots were harvested in bulk and the seed produced was used to produce breeders seed in 1975. The bulk is stable for all phenotypic characteristics. All breeding and selection work was carried out at the Soybean Research Foundation under the supervision of Dr. Arnold L. Matson.

Exhibit B -

PL 6940104 is a late group II variety. PL 6940104 is most like Amsoy 71. However, it is readily distinguished from Amsoy 71 by having light brown pubescence (like Grant) compared to grey for Amsoy 71. It also is about 2 days later than Amsoy 71 and 3 inches shorter. It has black hila compared to yellow for Amsoy 71 and has brown pods while Amsoy 71 has tan pods. PL 6940104 also has low peroxidase activity - Amsoy 71 high. It has Sp₁^b banding pattern - Amsoy 71 has Sp₁^a banding pattern. See accompanying letter from Dr. Hymowitz.

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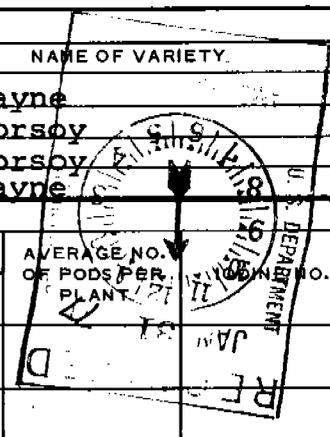
PV# 77-37

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Wayne	Petiole angle	Wayne
Leaf shape	Corsoy	Seed size	Corsoy
Leaf color	Grant	Seed shape	Corsoy
Leaf surface		Seedling pigmentation	Wayne

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
				Width	Length	Protein	Oil	
Submitted	127	2.5	41"	87mm	132mm	42.2	22.3%	
Name of similar variety Wayne	139	1.9	40"	92mm	121mm	41.4	22.8	



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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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.)

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Soybean Research Foundation, Inc.	FOR OFFICIAL USE ONLY
	PVPO NUMBER 7700037
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code) P.O. Box #72 Mason City, Illinois 62664	VARIETY NAME OR TEMPORARY DESIGNATION PL6940104

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: 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 5 GRAMS PER 100 SEEDS

5. HILUM COLOR: SHADE:

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

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

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

8. LEAFLET SHAPE:

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

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

2 = 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN 1 = 1 = WHITE 2 = PURPLE
 3 = OTHER (Specify)

11. POD COLOR: 12. POD SET:

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

13. PLANT PUBESCENCE COLOR: SHADE:

3 = 1 = GRAY 2 = BROWN 3 = OTHER (Specify) 1 = 1 = LIGHT 2 = MEDIUM 3 = DARK
Brown but loses its color if left in field. Similar to Grant

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

3 = 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE 2 = 1 = DETERMINATE 2 = INDETERMINATE
 3 = OTHER (Specify)

16. HYPOCOTYL COLOR: 17. SEED PROTEIN:

1 = 1 = GREEN 2 = PURPLE 2 = 1 = A 2 = B

18. NUMBER OF DAYS TO FLOWERING 19. MATURITY GROUP:

(Place a zero in first box (e.g. 0 9) when days are 9 or less.) 4 = 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.)

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"/> BACTERIAL PUSTULE	<input type="checkbox"/> SOYBEAN CYST	<input type="checkbox"/> DOWNY MILDEW	<input type="checkbox"/> PURPLE STAIN	<input type="checkbox"/> POD AND STEM BLIGHT	<input type="checkbox"/> ROOT KNOT
<input type="checkbox"/> FROGEYE	<input type="checkbox"/> STEM CANKER	<input checked="" type="checkbox"/> PHYTO-PHTHORA	<input type="checkbox"/> BROWN STEM ROT	<input type="checkbox"/> TARGET SPOT	<input type="checkbox"/> BROWN SPOT
<input type="checkbox"/> BUD BLIGHT	<input type="checkbox"/> WILDFIRE	<input type="checkbox"/> RHIZOCTONIA ROT	<input type="checkbox"/> OTHER (Specify)	00003	