



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International 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, 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 (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'118-11'



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 11th day of April in the year of our Lord one thousand nine hundred and seventy-seven

Secretary of Agriculture

Attest:

*Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service*

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY 118-11	1b. VARIETY NAME 118-11	FOR OFFICIAL USE ONLY	
		PV NUMBER	7700002
2. KIND NAME Soybean	3. GENUS AND SPECIES NAME Glycine Max	FILING DATE	TIME
		10/12/76	11:45 A.M.
4. FAMILY NAME (BOTANICAL) Leguminosae	5. DATE OF DETERMINATION January, 1971 January, 1973 (Increase)	FEE RECEIVED	DATE
		\$ 250.00 \$ 250.00 250.00	_____
6. NAME OF APPLICANT(S) Pioneer Hi-Bred International, Inc.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 1206 Mulberry Des Moines, Iowa 50308	8. TELEPHONE AREA CODE AND NUMBER AC 515 2845-3500	
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 Iowa	11. DATE OF INCORPORATION 1926	

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

Dale L. Porter
1206 Mulberry
Des Moines, Iowa 50308

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 NO14B. Does the applicant(s) specify that this variety be limited as to number of generations?
 YES NO14C. If "Yes," to 14B, how many generations of production beyond breeder seed?
 FOUNDATION REGISTERED CERTIFIED15. 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.

10-4-76

(DATE)

Pioneer Hi-Bred International Inc.

(SIGNATURE OF APPLICANT)

By Dale L. Porter

(SIGNATURE OF APPLICANT)

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- 13A. '118-11' originated from a cross of Corsoy x (Hawkeye x Chippewa). It is an F₃-derived line that has undergone testing since 1971. It is uniform and stable in its expression of maturity, height, and color of pubescence, flower, and hila. It was purified and increased in 1973, 1974, and 1975. All characteristics of the purified seed remained stable throughout each generation. (Revised.)
- 13B. '118-11' has purple flowers, tawny pubescence, brown pods, dull seed coat luster, yellow seed coat, and brown hila. It is uniform for all plant and seed characteristics. The variety 'B186' appears to be the most similar to variety '118-11'. Both varieties have purple flowers, tawny pubescence, brown pods, dull seed coat luster, yellow seed coat, and brown hila. They are similar for lodging resistance, emergence, seed size, and seed quality. However, '118-11' is consistently and significantly shorter in plant height than 'B186' by an average of four to five inches (see attached University conducted data). (Revised.)
- 13D. Variety '118-11' has exhibited high tolerance to iron chlorosis in comparison to 'B186' when evaluated on highly calcareous soils (high pH) in Iowa and Minnesota (Refer to University data enclosed). '118-11' has also exhibited a high degree of tolerance to Phytophthora root rot under natural field infection. This is strictly a personal observation and cannot be supported by statistical data.

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.)

FORM GR-470-2 (REVERSE)

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Rampage	Petiole angle	Rampage
Leaf shape	Rampage	Seed size	Rampage
Leaf color	Wirth	Seed shape	Wirth
Leaf surface	Wirth	Seedling pigmentation	Wirth

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		
118-11 Submitted	115	1.7	35	--	--	--	-- %	--	--
Name of similar variety Wirth	113	1.8	35	--	--	--	--	--	--

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"