

No.



740097

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Lynnville Seed Company

Whereas, THERE HAS BEEN PRESENTED TO THE

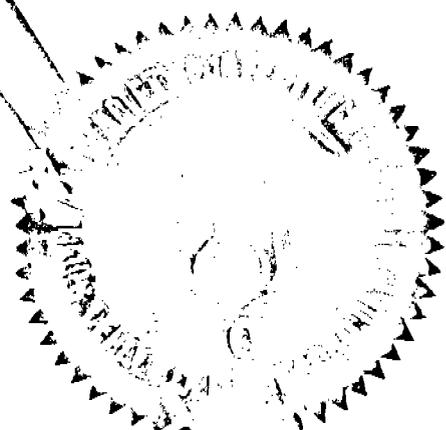
Secretary of Agriculture

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 *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

'3034'



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 30th day of October in the year of our Lord one thousand nine hundred and seventy-four

Attest

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

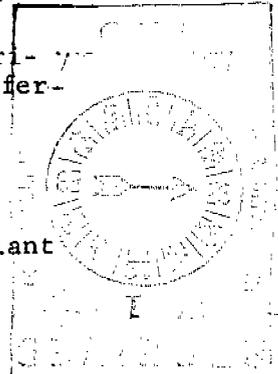
[Signature]
Secretary of Agriculture

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.



PV No. 7400097

EXHIBIT 13A

Variety 3034 originated from the cross of Amosy x 303S11. The bulk population method of breeding was used. 3034 was selected from an F6 bulk population of the above mentioned cross.

This variety has been observed in later generations and determined to be stable with no segregation.

PV No. 7400097

EXHIBIT 13B

The seed of 3034 are spherical shaped with yellow seed coat color and dull luster. The seed are fairly large. 3034 has an oval leaf shape and purple flower color. The mature plant is intermediate in plant type with an indeterminate growth habit. Pod color is brown and pubescence is gray. 3034 matures approximately four days later than Amosy.

RJS

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

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

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	125	1	42	Med.			%		
Name of similar variety	121	2	44	Med.					

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"

EXHIBIT 13D

3034 is most similar to Amsoy. 3034 matures four days later and has larger seeds and has greater resistance to lodging.

	Lodging	Days to Maturity	Seed Size Grams per 100 seeds
3034	1	125	18
Amsoy	2	121	16.5

EXHIBIT 13E

3034 was developed by Mr. A. W. Terpstra of the Lynnville Seed Company. This variety remains the property of the Lynnville Seed Company.

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Lynnville Seed Company ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code) Lynnville, Iowa 50153	FOR OFFICIAL USE ONLY PVPO NUMBER 7400097 VARIETY NAME OR TEMPORARY DESIGNATION 3034'
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Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE: <input type="checkbox"/> 1 = SPHERICAL <input type="checkbox"/> 2 = SPHERICAL FLATTENED <input type="checkbox"/> 3 = ELONGATE <input type="checkbox"/> 4 = OTHER (Specify)																			
2. SEED COAT COLOR: <input type="checkbox"/> 1 = YELLOW <input type="checkbox"/> 2 = GREEN <input type="checkbox"/> 3 = BROWN <input type="checkbox"/> 4 = BLACK <input type="checkbox"/> 5 = OTHER (Specify)																			
SHADE: <input type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK																			
3. SEED COAT LUSTER: <input type="checkbox"/> 1 = DULL <input type="checkbox"/> 2 = SHINY	4. SEED SIZE: <input type="checkbox"/> 1 <input type="checkbox"/> 8 GRAMS PER 100 SEEDS																		
5. HILUM COLOR: <input type="checkbox"/> 1 = BUFF <input type="checkbox"/> 2 = YELLOW <input type="checkbox"/> 3 = BROWN <input type="checkbox"/> 4 = GRAY <input type="checkbox"/> 5 = IMPERFECT BLACK <input type="checkbox"/> 6 = BLACK <input type="checkbox"/> 7 = OTHER (Specify)																			
SHADE: <input type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK																			
6. COTYLEDON COLOR: <input type="checkbox"/> 1 = YELLOW <input type="checkbox"/> 2 = GREEN	7. LEAFLET SIZE (See Reverse): <input type="checkbox"/> 1 = SMALL <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = LARGE																		
8. LEAFLET SHAPE: <input type="checkbox"/> 1 = OVATE <input type="checkbox"/> 2 = OBLONG <input type="checkbox"/> 3 = LANCEOLATE <input type="checkbox"/> 4 = ELLIPTICAL <input type="checkbox"/> 5 = OTHER (Specify)																			
9. LEAF COLOR (See reverse): <input type="checkbox"/> 1 = LIGHT GREEN <input type="checkbox"/> 2 = MEDIUM GREEN <input type="checkbox"/> 3 = DARK GREEN																			
10. FLOWER COLOR: <input type="checkbox"/> 1 = WHITE <input type="checkbox"/> 2 = PURPLE <input type="checkbox"/> 3 = OTHER (Specify)																			
11. POD COLOR: <input type="checkbox"/> 1 = TAN <input type="checkbox"/> 2 = BROWN <input type="checkbox"/> 3 = BLACK																			
12. POD SET: <input type="checkbox"/> 1 = SCATTERED <input type="checkbox"/> 2 = CONCENTRATED																			
13. PLANT PUBESCENCE COLOR: <input type="checkbox"/> 1 = GRAY <input type="checkbox"/> 2 = BROWN <input type="checkbox"/> 3 = OTHER (Specify)																			
SHADE: <input type="checkbox"/> 1 = LIGHT <input type="checkbox"/> 2 = MEDIUM <input type="checkbox"/> 3 = DARK																			
14. PLANT TYPES (See Reverse): <input type="checkbox"/> 1 = SLENDER <input type="checkbox"/> 2 = BUSHY <input type="checkbox"/> 3 = INTERMEDIATE																			
15. PLANT HABIT: <input type="checkbox"/> 1 = DETERMINATE <input type="checkbox"/> 2 = INDETERMINATE <input type="checkbox"/> 3 = OTHER (Specify)																			
16. HYPOCOTYL COLOR: <input type="checkbox"/> 1 = GREEN <input type="checkbox"/> 2 = PURPLE																			
17. SEED PROTEIN: <input type="checkbox"/> 1 = A <input type="checkbox"/> 2 = B																			
18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. [0][9]) when days are 9 or less.) <input type="checkbox"/> 5 <input type="checkbox"/> 1	19. MATURITY GROUP: <input type="checkbox"/> 1 = 00 <input type="checkbox"/> 2 = 0 <input type="checkbox"/> 3 = I <input type="checkbox"/> 4 = II <input type="checkbox"/> 5 = III <input type="checkbox"/> 4 <input type="checkbox"/> 6 = IV <input type="checkbox"/> 7 = V <input type="checkbox"/> 8 = VI <input type="checkbox"/> 9 = VII <input type="checkbox"/> 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.) <table style="width:100%; border: none;"> <tr> <td style="border: none;"><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/> MM. LENGTH OF SEEDLING</td> <td style="border: none;"><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/> MM. LENGTH OF COTYLEDON</td> <td style="border: none;"><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/> MM. WIDTH OF COTYLEDON</td> </tr> </table>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MM. LENGTH OF SEEDLING	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MM. LENGTH OF COTYLEDON	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> MM. WIDTH OF COTYLEDON															
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21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) <table style="width:100%; border: none;"> <tr> <td style="border: none;"><input type="checkbox"/> BACTERIAL PUSTULE</td> <td style="border: none;"><input type="checkbox"/> SOYBEAN CYST</td> <td style="border: none;"><input type="checkbox"/> DOWNY MILDEW</td> <td style="border: none;"><input type="checkbox"/> PURPLE STAIN</td> <td style="border: none;"><input type="checkbox"/> POD AND STEM BLIGHT</td> <td style="border: none;"><input type="checkbox"/> ROOT KNOT</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> FROGEYE</td> <td style="border: none;"><input type="checkbox"/> STEM CANKER</td> <td style="border: none;"><input type="checkbox"/> PHYTO-PHTHORA</td> <td style="border: none;"><input type="checkbox"/> BROWN STEM ROT</td> <td style="border: none;"><input type="checkbox"/> TARGET SPOT</td> <td style="border: none;"><input type="checkbox"/> BROWN SPOT</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> BUD BLIGHT</td> <td style="border: none;"><input type="checkbox"/> WILDFIRE</td> <td style="border: none;"><input type="checkbox"/> RHIZOCTONIA ROT</td> <td style="border: none;"><input type="checkbox"/> OTHER (Specify)</td> <td colspan="2"></td> </tr> </table>		<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 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)		
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