No. 8200125

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Dairyland Seed Company, 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 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, 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. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS PART OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'DSR-352'

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* 29th *day of* September *in the year of our Lord one thousand nine hundred and* eighty-three.

*Attest:*

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

*Secretary of Agriculture*

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

**INSTRUCTIONS:** *See Reverse.*

FORM APPROVED
OMB NO. 40-R3822

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

| | | |
|---|---|---|
| 1a. TEMPORARY DESIGNATION OF VARIETY: A352 | 1b. VARIETY NAME: DSR-352 | FOR OFFICIAL USE ONLY — PV NUMBER: 8200125 |
| 2. KIND NAME: Soybean | 3. GENUS AND SPECIES NAME: Glycine MAX | FILING DATE: 5/14/82 — TIME: 11:30 A.M. ~~P.M.~~ |
| 4. FAMILY NAME (BOTANICAL): Leguminosae | 5. DATE OF DETERMINATION: December, 1974 | FEE RECEIVED: $ 500.00 — DATE: 5/14/82<br>$ ~~250.00~~ — ~~7/14/83~~ |
| 6. NAME OF APPLICANT(S): Dairyland Seed Company, Inc. | 7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*: P. O. Box 958, 3570 Hwy. H, West Bend, WI 53095 | 8. TELEPHONE AREA CODE AND NUMBER: 414-338-0163 |
| 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: Wisconsin | 11. DATE OF INCORPORATION: Dec., 1963 |

12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS:
Thomas G. Strachota
Dairyland Seed Company, Inc.
P. O. Box 958
West Bend, WI 53095

13. **CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:**

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Novelty Statement.
- [X] 13C. Exhibit C, Objective Description of the Variety *(Request form from Plant Variety Protection Office.)*
- [X] 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.)* [X] YES [ ] NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? [X] YES [ ] NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? [1] FOUNDATION [ ] REGISTERED [1] CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? [ ] YES [X] NO *(If "Yes," give name of countries and dates.)*

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? [ ] YES [X] NO *(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? [X] YES [ ] 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.

5-2-82 (DATE) — Thomas G. Strachota (SIGNATURE OF APPLICANT)

(DATE) — (SIGNATURE OF APPLICANT)

FORM GR-470 (1-78)

## 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.

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DSR-352

Exhibit A, Origin and Breeding History of the Variety

A. DSR-352 is a cultivar of unknown parentage derived by the pedigree method of breeding. It appears to be an $F_5$ derived line. One probable parent was Amsoy, the other may be Wayne.

| | | |
|---|---|---|
| 1967 | $F_0$ | Initial Cross |
| 1968(Winter) | $F_1$ | Grow Out |
| 1968 | $F_2$ | Selection |
| 1969 | $F_3$ | Selection |
| 1970 | $F_4$ | Yield Test |
| 1971 | $F_5$ | Reselected |
| 1972 | $F_6$ | Preliminary Yield Test |
| 1973 | $F_7$ | Yield Trial |
| 1974 | $F_8$ | Yield Trial |
| 1975 | $F_9$ | Yield Trial - Initial Increase |
| 1976 | $F_{10}$ | Yield Trial |
| 1977 | $F_{11}$ | Yield Trial |
| 1978 | $F_{12}$ | Yield Test |
| 1979 | $F_{13}$ | Yield Test - Second Increase |
| 1980 | $F_{14}$ | Yield Test - Third Increase |
| 1981 | $F_{15}$ | Yield Test - Fourth Increase |

B. At the increases in 1975 and 1978, all seed was hand picked to one hilum color, gray. Both times black, brown, and yellow hilums had to be selected out. In addition, plant type selection has been practiced each generation for flower color and pubescence.

DSR-352 has the following level of segregants:

| | | |
|---|---|---|
| Variant Levels: | Hilum Color: | Up to 0.90% hilum variants |
| | Pubescence Color: | Up to 0.25% variants |
| | Flower Color: | Up to 0.5% flower color variants |

Exhibit B, Novelty Statement

DSR-352 is most similar in general appearance to the cultivar Capital. However, it differs in a number of characteristics. DSR-352 has a gray hilum color and a medium brown pubescence color whereas Capital has a tan hilum and a light brown pubescence.

FORM GR-470-2
(6-15-72)

DSR-352

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
*(Soybean)*

# OBJECTIVE DESCRIPTION OF VARIETY
## SOYBEAN *(GLYCINE MAX)*

**INSTRUCTIONS:** *See Reverse.*

NAME OF APPLICANT(S)
Dairyland Seed Company, Inc.

ADDRESS *(Street and No., or R.F.D. No.; City, State, and ZIP Code)*
P. O. Box 958
West Bend, WI 53095

**FOR OFFICIAL USE ONLY**
PVPO NUMBER 8200125
VARIETY NAME OR TEMPORARY DESIGNATION
DSR-352 R/S

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

**1. SEED SHAPE:**
[1] 1 = SPHERICAL 2 = SPHERICAL FLATTENED 3 = ELONGATE 4 = OTHER *(Specify)*

**2. SEED COAT COLOR:**
[1] 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK 5 = OTHER *(Specify)*
**SHADE:** [2] 1 = LIGHT 2 = MEDIUM 3 = DARK

**3. SEED COAT LUSTER:**
[1] 1 = DULL 2 = SHINY

**4. SEED SIZE**
[1 6] GRAMS PER 100 SEEDS

**5. HILUM COLOR:**
[4] 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = IMPERFECT BLACK 6 = BLACK 7 = OTHER *(Specify)*
**SHADE:** [1] 1 = LIGHT 2 = MEDIUM 3 = DARK

**6. COTYLEDON COLOR:**
[1] 1 = YELLOW 2 = GREEN

**7. LEAFLET SIZE** *(See Reverse)*:
[1] 1 = SMALL 2 = MEDIUM 3 = LARGE

**8. LEAFLET SHAPE:**
[5] 1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL 5 = OTHER *(Specify)* Ovate-Elliptical

**9. LEAF COLOR** *(See reverse)*:
[2] 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN

**10. FLOWER COLOR:**
[2] 1 = WHITE 2 = PURPLE 3 = OTHER *(Specify)*

**11. POD COLOR:**
[2] 1 = TAN 2 = BROWN 3 = BLACK

**12. POD SET:**
[1] 1 = SCATTERED 2 = CONCENTRATED

**13. PLANT PUBESCENCE COLOR:**
[2] 1 = GRAY 2 = BROWN 3 = OTHER *(Specify)*
**SHADE:** [2] 1 = LIGHT 2 = MEDIUM 3 = DARK

**14. PLANT TYPES** *(See Reverse)*:
[2] 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE

**15. PLANT HABIT:**
[2] 1 = DETERMINATE 2 = INDETERMINATE 3 = OTHER *(Specify)*

**16. HYPOCOTYL COLOR:**
[2] 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.)*
[5 0]

**19. MATURITY GROUP:**
[5] 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.)*
[2 2 5] MM. LENGTH OF SEEDLING [2 0] MM. LENGTH OF COTYLEDON [1 2] MM. WIDTH OF COTYLEDON

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

| | | | | | |
|---|---|---|---|---|---|
| [0] BACTERIAL PUSTULE | [0] SOYBEAN CYST | [0] DOWNY MILDEW | [0] PURPLE STAIN | [0] POD AND STEM BLIGHT | [0] ROOT KNOT |
| [0] FROGEYE | [0] STEM CANKER | [1] PHYTO-PHTHORA | [1] BROWN STEM ROT | [0] TARGET SPOT | [0] BROWN SPOT |
| [0] BUD BLIGHT | [0] WILDFIRE | [0] RHIZOCTONIA ROT | [ ] OTHER *(Specify)* | | |

8200125

FORM GR-470-2 (REVERSE)

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

| CHARACTER | NAME OF VARIETY | CHARACTER | NAME OF VARIETY |
|---|---|---|---|
| Plant shape | Elf | Petiole angle | Grant |
| Leaf shape | Williams | Seed size | -- |
| Leaf color | Wayne | Seed shape | -- |
| Leaf surface | Cumberland | Seedling pigmentation | -- |

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

| VARIETY | NO. OF DAYS TO MATURITY | LODGING SCORE | PLANT HEIGHT cm | LEAF SIZE | | CONTENT | | AVERAGE NO. OF PODS PER PLANT | IODINE NO. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Width mm | Length mm | Protein | Oil | | |
| Submitted | 143 | 1.5 | 71 | 133 | 143 | 38.89 | 15.5% | 126 | -- |
| Name of similar variety Capital | 124 | 2.5 | 72 | 147 | 156 | -- | -- | 152 | -- |

## 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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Exhibit D, Additional Description of the Variety

DSR-352 is most similar in maturity to Williams, DSR-352 being about 1 day later for 90% leaf drop.

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COLLATERAL ASSIGNMENT

WHEREAS, Dairyland Seed Co., Inc., of West Bend, Wisconsin, hereinafter called "Assignor" is the owner of all rights to certain inventions in the following plant varieties for which said Assignor has obtained the following United States Plant Variety Protection Act Certificates:

| Certificate No. | Variety | Dated Issued |
|---|---|---|
| 7900023 | Magnum Alfalfa | 1-14-82 |
| 8900229 | Magnum III Alfalfa | 6-29-90 |
| 8100020 | DSR-141 Soybean | 2-26-81 |
| 8100021 | DSR-171 Soybean | 2-26-81 |
| 8100022 | DSR-207 Soybean | 2-26-81 |
| 8100023 | DSR-232 Soybean | 6-11-81 |
| 8100096 | DSR-120 Soybean | 8-27-81 |
| 8200123 | DSR-320 Soybean | 9-29-83 |
| 8200124 | DSR-227 Soybean | 6-30-83 |
| 8200125 | DSR-352 Soybean | 9-29-83 |
| 8500209 | DSR-287 Soybean | 1-30-87 |
| 8500210 | DSR-297 Soybean | 1-30-87 |
| 8500211 | DSR-317 Soybean | 1-30-87 |
| 8800065 | DSR-128 Soybean | 9-30-88 |
| 8800067 | DSR-155 Soybean | 9-30-88 |

WHEREAS, M&I Marshall & Ilsley Bank, hereinafter called "Assignee," a corporation of Wisconsin having its principal office in Milwaukee, Wisconsin, is desirous of acquiring a security interest in said inventions and certificates:

NOW, THEREFORE, in consideration of, and in security for, certain loans by Assignee to Assignor, the receipt of which by said Assignor is hereby acknowledged, said Assignor, by this document, does hereby conditionally assign, and transfer unto the Assignee the full and exclusive right for the territory of the United States of America, its territories and possessions, in and to said inventions as described in the certificates and in and to said certificates. Until repayment of all loans from Assignee to Assignor, both present and future, Assignee may hold and enjoy the certificates for its own use and behoof, and for its successors and assigns, to the full end term for which said certificates has been granted, as fully and entirely as the same would have been held by said Assignor had this assignment not been made.

Assignee agrees to re-assign said inventions and said certificates to Assignor conditionally upon the repayment of all loans from Assignor to Assignee.

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Plant Variety
Protection Ofc.

Executed this 20TH day of January, 1992.

DAIRYLAND SEED CO., INC.

By: Thomas G. Strachota
Thomas G. Strachota
Executive Vice President

Attest: Marie A. Strachota
Marie A. Strachota
Secretary

Date: 1-20-92

Subscribed and sworn to before me
this 20th day of January, 1992.

Kim M. Gellings
Notary Public, State of Wisconsin
My Commission: Expires 5/92

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