



# THE UNITED STATES OF AMERICA

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**

**McNair 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. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS LIMITED BY THE OWNER OF THE RIGHTS. (§4 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

**SOYBEAN**

'McNair 600'

*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 26th day of February in  
the year of our Lord one thousand nine  
hundred and seventy-four*

*Attest:*

*J. J. Rollin*  
Commissioner  
Plant Variety Protection Office  
Soil Division  
Agricultural Marketing Service

*Earl L. Buttz*  
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION McNair 600	2. KIND NAME Soybeans	FOR OFFICIAL USE ONLY	
		PV NUMBER <b>7175</b>	
3. GENUS AND SPECIES NAME Glycine max (L.) Merrill	4. FAMILY NAME (Botanical) Leguminosae	FILING DATE <b>4-16-71</b>	TIME <b>10:30</b> A.M.
	5. DATE OF DETERMINATION 1967	FEE RECEIVED \$ <b>250</b> \$ <b>250</b> \$ <b>250</b>	BALANCE DUE \$ <b>-</b> \$ <b>-</b> \$ <b>-</b>
6. NAME OF APPLICANT(S) McNair Seed Company	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 706 Laurinburg, N. C. 28352	8. TELEPHONE AREA CODE AND NUMBER 919 276-0733	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. STATE OF INCORPORATION North Carolina	11. DATE OF INCORPORATION 11-1-47

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

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*  YES  NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? *Yes*  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.

McNAIR SEED COMPANY

February 28, 1973

(DATE)

By *E. Harvey Evans Jr. President*  
President (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.

#7175

Exhibit 12A. Origin and Breeding History of the Variety

McNair 600 is from a cross of Jackson x Lee. The early generations of the cross were maintained by bulk increase. Selections were made in the F<sub>9</sub> generation and were evaluated in duplicate progeny rows in 1966. Yield testing of the selection was begun in 1967 and the initial increase came from the center two rows of the 4-row plots in the yield test. Subsequent increases have come from progeny rows planted with seed from plants taken at random from the breeder's seed block.

The initial increase of this variety has a low percentage (less than .05) of off-type plants with grey pubescence and white flowers. These will not be present in subsequent increases from progeny rows.

## Exhibit 12B. Botanical Description of the Variety

McNair 600 has the following diagnostic characteristics: purple flowers, tawny pubescence, rich yellow color seed with black hyla, none to very little hilum color bleeding, plants 4 to 5 inches taller than Lee. The variety has a strong central stalk and medium amount of branching.

McNair 600 is in the Group VI maturity class of soybeans.



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

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

## 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	1.9	96cm.	5.5cm	11.8	cm	20.4 %		
Name of similar variety	Lee 68	Davis	Ransom				Hampton 266		

## - 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"

REVISED

EXHIBIT D

Application No. 7175

Soybean McNair 600

Novelty is based on the unique combination of the following characters:

McNair 600 is most similar to Lee Except McNair 600 is (1) an average of 9 centimeters taller, (2) the foliage is a lighter shade of green, and (3) has resistance to Meloidogyne arenaria.

McNair 600 differs from Bragg in that Bragg matures about 7 days later, has a white flower and is taller.

McNair 600 differs from Ransom in that Ransom matures about 7 days later, has better lodging resistance and a larger seed index.

*See Revised Exhibit D  
Substitute for ~~revised version~~  
RJS.*

Exhibit D

Application No. 7175 Soybean McNair 600

Novelty is based on the unique combination of the following characters:

McNair 600 is similar to Lee 68 except McNair 600 is (1) an average of 3.5 inches taller, (2) to foliage is a lighter shade of green and (3) does not have Phytophthora rot resistance.

#1175

Exhibit 12D. Particulars of Trial Performance

FOUR YEAR YIELD DATA  
McNAIR SEED COMPANY TESTS

<u>Variety</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>Average</u>
McNair 600	42.2	22.0	35	24	30.8
Lee	36.3	18.9	27	24	26.5

SELECTED DATA FROM NORTH CAROLINA  
OFFICIAL VARIETY TESTS IN EASTERN COUNTIES - 1970  
(GROUP VI VARIETIES)

<u>Variety</u>	<u>Yield</u>			Plant Hgh't. (averaged)
	<u>Sampson</u>	<u>Washington</u>	<u>Wayne</u>	
McNair 600	48.8	43.3	24.0	39 in-
Lee	44.6	42.7	19.9	34 in.
Lee-68	42.6	44.5	23.6	36 in.

# 7175

Exhibit 12E. Statement of the Basis of Applicant's Ownership

McNair 600 soybean variety is the property of McNair Seed Company as the breeder, David L. Burns, was employed by this company at the time this variety was developed, and the breeding program was supported entirely by McNair Seed Company.