

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Gallatin Valley 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 (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN

'Galamor'

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 July in the year of our Lord one thousand nine hundred and seventy-four

Attest:

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

Carl L. Butz
Secretary of Agriculture

Exhibit 12 A. Date: 10/31/72 Chart No. 1
 Pedigree Chart for: H63-2-1 Bean
 Gallatin Valley Seed Co.
 Twin Falls, Idaho

Examiner's R/S

H63-2-1 (1962)

H63-2 (1960)

H63 (1959)

H27-12 (1959)

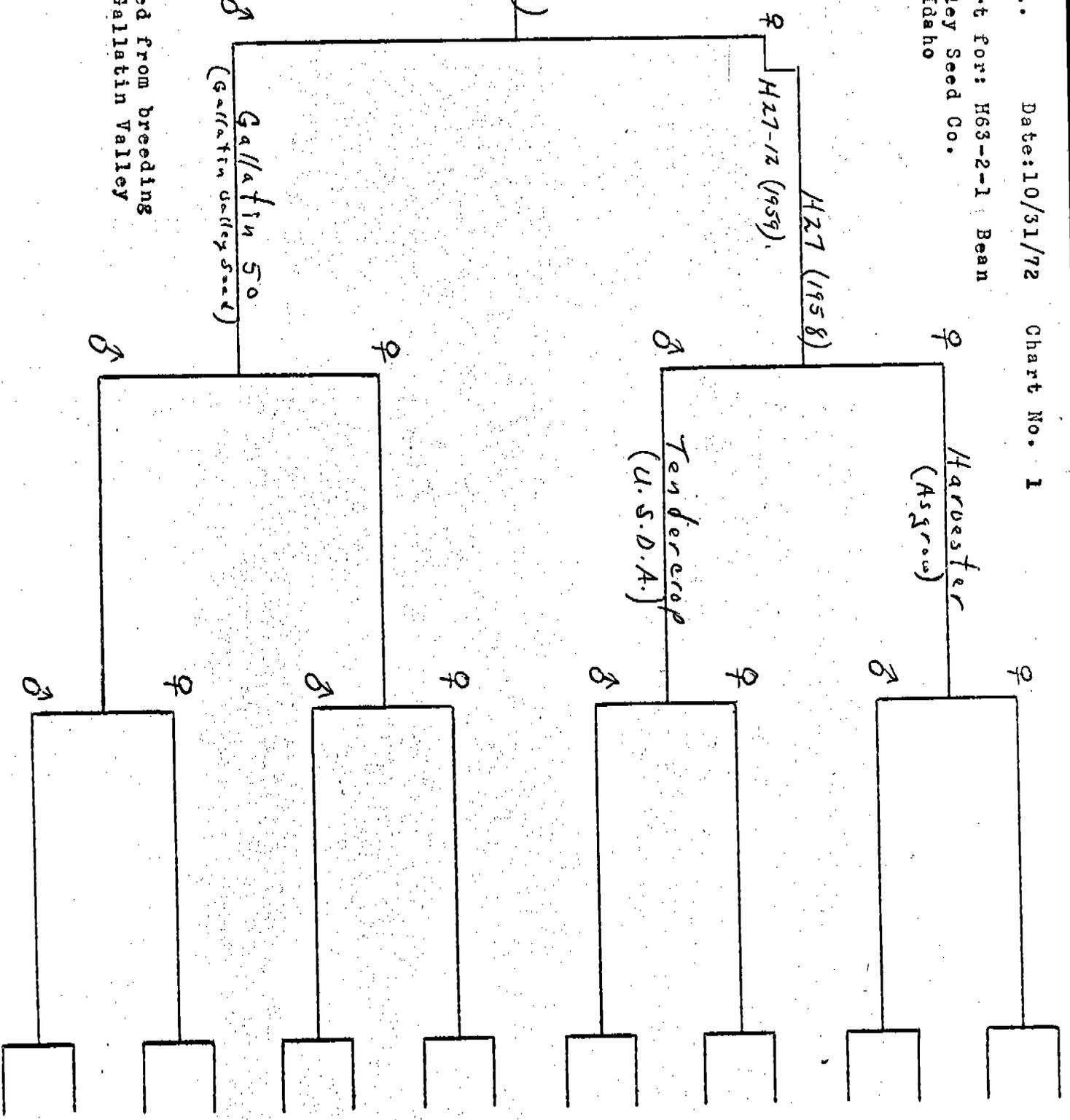
H27 (1958)

Gallatin 50
 (Gallatin Valley Seed)

Harvester
 (Asgrow)

Tendercrop
 (U.S.D.A.)

Data compiled from breeding records of Gallatin Valley Seed Co.



'GALAMOR' rfs

Exhibit 12 A (2) H63-2-1 Bean.

Details of Selection and Multiplication.

- 1962 Single plant selection number H63-2-1 made from H63-2 which descended from Hybrid number H63 (see pedigree chart).
- 1963 Planted 2 oz, harvested 24 oz.
- 1964 Planted 24 oz., harvested 23 pounds. Determined this to be a new and distinct variety.
- 1965 Planted 22#, harvested 177#.
- 1966 Planted 176#, harvested 4285#.
- 1967 through 1970. Planted only trial amounts for evaluation purposes, processor tests, etc., until processor interest developed.
- 1971 Planted 3256#, harvested 58,720#.
- 1972 None planted for increase awaiting further processor interest.

Note: In order to "introduce" a new bean variety to the processing trade it is often necessary, and a common practice in the bean seed industry, to supply certain processors with seed for pilot test plantings of sufficient size they can have a production run through their processing equipment, quality control lab., etc. This may result in plantings of 10 to 20 acres requiring 700-2000 pounds of bean seed per trial. This accounts for the fairly large build-up of seed before a variety can be considered as actually entering commercial channels.



Exhibit 12 A (3)

'CANAMOR' rfs
H63-2-1

Bean.

Type and Frequency of Variants.

'CANAMOR'
H63-2-1, as does most snap bean types, produces a few of each of two mutant types. These are plants with flat pods instead of round pods and plants having pods with suture strings instead of being stringless. It is difficult to list frequency of these since they become evident only after several generations of increase and the build-up of these mutants in the population is governed by the efficiency of roguing operations to remove them and the effect of naturally occurring selective pressures to which the population is exposed.

Exhibit 12 A (4)

Evidence of Stability.

'CANAMOR'
Reproduction and multiplication of H63-2-1 has been under the supervision of competent plant breeders using pure-line increase methods to assure satisfactory stability of the line. All early generation increase has been accomplished on a company owned and operated trial grounds and each increase planting has been carefully inspected for occurrence of any off-types, mutants, etc.



Botanical Description.

H63-2-1 is a bean variety suitable for canning or freezing. It produces a large, sturdy, erect bush with pods borne high in the plant. Pods are long, straight, slender, low in fiber, and slow to develop seed. Pods are medium dark green in color with long spurs.

Main attributes of this bean variety is its ability to produce pods which do not become crease-backed or compressed and its tolerance to heat and drought as related to maintenance of green pod quality. Where pods of many beans of Tendercrop type develop interocular cavitation, "pithiness", and other forms of interior pod flesh deterioration under heat stress the pods of H63-2-1 tend to remain firm and of good quality. H63-2-1 also differs from White Seeded Tendercrop types in having longer pods, less tendency to produce crease-backed or compressed pods, and in having slightly lighter pod color.



10. ANTHOCYANIN: (1 = Absent 2 = Present):

<input checked="" type="checkbox"/> FLOWERS	<input checked="" type="checkbox"/> STEMS	<input checked="" type="checkbox"/> PODS	<input checked="" type="checkbox"/> SEEDS	<input checked="" type="checkbox"/> LEAVES
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11. DISEASE RESISTANCE (0 = Not tested; 1 = Susceptible; 2 = Resistant):

<input type="checkbox"/> RUST (Specify race) _____	<input type="checkbox"/> ANGULAR LEAF SPOT
<input type="checkbox"/> BACTERIAL WILT	<input checked="" type="checkbox"/> COMMON BEAN MOSAIC
<input type="checkbox"/> ANTHRACNOSE	<input type="checkbox"/> YELLOW BEAN MOSAIC
<input type="checkbox"/> SOUTHERN BEAN MOSAIC	<input type="checkbox"/> FUSARIUM ROOT ROT
<input checked="" type="checkbox"/> CURLY TOP	<input checked="" type="checkbox"/> N.Y. 15 BEAN MOSAIC
<input type="checkbox"/> POWDERY MILDEW	<input type="checkbox"/> BEAN MOSAIC VIRUS 4
<input checked="" type="checkbox"/> HALO BLIGHT	<input checked="" type="checkbox"/> FUSCOUS BLIGHT
<input type="checkbox"/> ALFALFA MOSAIC VIRUS	<input type="checkbox"/> ALFALFA MOSAIC VIRUS 2
<input checked="" type="checkbox"/> POD MOTTLE VIRUS	<input type="checkbox"/> RED NODE VIRUS
<input type="checkbox"/> ROOT KNOT NEMATODE	<input type="checkbox"/> OTHER (Specify) _____

12. INSECT RESISTANCE: (0 = Not tested; 1 = Susceptible; 2 = Resistant)

<input type="checkbox"/> APHIDS	<input type="checkbox"/> LEAF HOPPERS
<input type="checkbox"/> POD BORER	<input type="checkbox"/> LYGUS
<input type="checkbox"/> THRIPS	<input type="checkbox"/> WEAVILS
<input type="checkbox"/> SEED CORN MAGGOT	<input type="checkbox"/> OTHER (Specify) _____

13. PHYSIOLOGICAL RESISTANCE: (0 = Not tested; 1 = Susceptible; 2 = Resistant)

<input checked="" type="checkbox"/> HEAT	<input type="checkbox"/> COLD	<input type="checkbox"/> DROUGHT	<input type="checkbox"/> OTHER (Specify) _____
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REFERENCES: The following publications may be used as a reference in completing this form:

1. Beans of New York. Vol. 1 Part II of Vegetables of New York. U.P. Hedrick et al. J. B. Lyon Company, Albany, N.Y. 1931.
2. Yarnell, S. H., Cytogenetics of the Vegetable Crops IV. Legumes. Bot. Rev. 31:247 - 330. 1965.
3. USDA Yearbook of Agriculture. 1937.

COLOR: Nickerson's or any recognized color fan may be used to determine the colors.



Exhibit 12 D

H-63-2-1 'GALAMOR' R/S Bean

(Revised June 27, 1974)

Data Indicative of Novelty.

'GALAMOR'

H63-2-1 is essentially a white seeded Tendercrop type but is most similar to 'Gallatin 50' because 'Gallatin 50' was one of its parents.

'GALAMOR'

H63-2-1 is distinct from 'Gallatin 50' in that it has white seed and 'Gallatin 50' has cream colored seed.

'GALAMOR'

H63-2-1 is also distinct from 'Gallatin 50' and other white seeded Tendercrop types in having longer pods; slightly lighter colored pods; less crease-backing; and more resistance to heat stress.

'GALAMOR'

H63-2-1 pod length will average 15cm in length while the White Seeded Tendercrop types will be 13-14 cm. H63-2-1 produces very few pods which are crease-backed or compressed at the mature green stage whereas most pods of the Tendercrop types are crease backed or compressed at this stage.

Where pods of many Tendercrop types develop interocular cavitation, "pithiness", and general interior pod flesh deterioration under heat stress pods of H63-2-1 tend to remain firm and of good quality. This characteristic is of great value to green bean processors.

GALLATIN VALLEY SEED CO.

BOX 167 • TWIN FALLS, IDAHO 83301



Date: 10/31/72

12E. Exhibit E.

Statement of the Basis of Applicant's Ownership.

The undersigned specifies that Gallatin Valley Seed Co., applicant, is the employer of the breeder responsible for the development of the subject plant variety of this application, namely ~~H63-2-1~~ GALAMOR¹ Rfs Beans.

Gallatin Valley Seed Co.

per: M. C. Parker M. C. Parker

Title: Vice President and
Research Director

OBJECTIVE DESCRIPTION OF VARIETY
BEAN (PHASEOLUS VULGARIS)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) Gallatin Valley Seed Co., ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 167, Twin Falls, Idaho 83301	FOR OFFICIAL USE ONLY
	PVPO NUMBER 73025
	VARIETY NAME OR TEMPORARY DESIGNATION 'GALAMOR' R/S H63-2-1

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. TYPE:

1 = SNAPBEAN 2 = GREEN SHELL 3 = DRY EDIBLE 4 = MULTIPURPOSE

2. SEASON AND REGION OF ADAPTABILITY IN THE U.S.:

Grows best during: 1 = SPRING 2 = SUMMER 3 = FALL 4 = WINTER

Best adapted in: 1 = NORTHWEST 2 = NORTHCENTRAL 3 = NORTHEAST 4 = SOUTHEAST
5 = SOUTHWEST 6 = MOST REGIONS

3. MATURITY (Days from seeding to first harvest):

GREEN PODS GREEN SHELLS DRY SEEDS

NO. DAYS EARLIER THAN ----- }
 NO. DAYS LATER THAN ----- }
 1 = TENDERCROP 2 = KENTUCKY WONDER 3 = KINGHORN WAX
 4 = WHITE KIDNEY 5 = MICHELITE 62 6 = DWARF HORTI-CULTURAL
 7 = BUSH BLUE LAKE 8 = OTHER (Specify)

4. PLANT:

1 = DETERMINATE, ERECT BUSH 2 = DETERMINATE, SPRAWLING BUSH
3 = DETERMINATE, SEMIPOLE 4 = INDETERMINATE, POLE

CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE

NUMBER PRIMARY BRANCHES PER MAIN STALK CM. SPREAD

Branching habit: 1 = COMPACT 2 = OPEN NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE

CM. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF MM. STALK DIAMETER ABOVE FIRST TRIFOLIATE LEAF

Main stalk: 1 = BRITTLE 2 = WIREY 1. STOUT 2. THIN

Flower position: }
 Pod Position: } 1 = LOW, CONCENTRATED 2 = HIGH, CONCENTRATED 3 = SCATTERED

5. LEAVES:

1 = SMOOTH 2 = WRINKLED 1 = DULL 2 = GLOSSY Thickness: 1 = THIN 2 = MEDIUM 3 = THICK

Size: 1 = SMALL (Earliwax) 2 = MEDIUM 3 = LARGE (Tendercrop) CM. PETIOLE LENGTH (To basal leaflets of first trifoliate leaf)

Tip shape of center leaflet: 1 = ROUNDED 2 = TAPER POINTED 3 = SHARP POINTED

PUBESCENCE - Dorsal: }
 PUBESCENCE - Ventral: } 1 = NONE 2 = SLIGHT 3 = CONSIDERABLE

Color: 1 = LIGHT GREEN (Bountiful) 2 = MEDIUM GREEN 3 = DARK GREEN (Bush Blue Lake)

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION H63-2-1 'GALLAMOR' 2/3 <i>(Temporary Post)</i>		2. KIND NAME Snap Bean (Green)	FOR OFFICIAL USE ONLY PVPO NUMBER 73025	
3. GENUS AND SPECIES NAME <u>Phaseolus vulgaris</u> L.		4. FAMILY NAME (Botanical) Leguminosae	FILING DATE 10-31-72	TIME 11:00 <input checked="" type="radio"/> A.M. <input type="radio"/> P.M.
6. NAME OF APPLICANT(S) Gallatin Valley Seed Co.		5. DATE OF DETERMINATION 1964	FEE RECEIVED \$ 750	CHARGES —
7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 167 Twin Falls, Idaho 83301		8. TELEPHONE AREA CODE AND NUMBER AC 208 733-8222		
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. STATE OF INCORPORATION Montana		11. DATE OF INCORPORATION 9-28-22

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

Same as above.

CALVIN HAMBORN
RESEARCH DIRECTOR

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- 12A. Exhibit A, Origin and Breeding History of the Variety (See Section 52, P.L. 91-577)
- 12B. Exhibit B, Botanical Description of the Variety
- 12C. Exhibit C, Objective Description of the Variety
- 12D. Exhibit D, Data Indicative of Novelty
- 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

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. (See Section 52, P.L. 91-577).

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), P.L. 91-577) (If "Yes," answer 14B and 14C below.) YES NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? YES NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

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 (P.L. 91-577).

Oct. 31, 1972

(DATE)

Gallatin Valley Seed Co.

Per

M. C. Parker

M. C. Parker

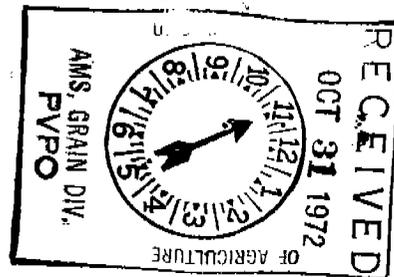
(SIGNATURE OF APPLICANT)

Title: Vice President and Research Director

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. 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.
- 12a 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.
- 12b 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.
- 12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.
- 12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

6. FLOWERS:

Color: 1 = WHITE 2 = CREAM 3 = PINK 4 = LILAC 5 = PURPLE
6 = OTHER (Specify) _____

Racemes: 1 = LONG 2 = MEDIUM 3 = SHORT 7 NUMBER FLOWERS PER RACEME

7. FRESH PODS: (Edible maturity, averages for 10 pods)

Color: 1 = LIGHT GREEN (Bountiful) 2 = MEDIUM GREEN (Tendergreen) 3 = DARK GREEN (Wade)
4 = LIGHT YELLOW (Brittlewax) 5 = GOLDEN YELLOW (Cherokee Wax) 6 = GREEN-RED VARIAGATED (Horticultural)
7 = OTHER (Specify) _____

15 CM. LENGTH 09 MM. WIDTH (Between sutures) 09 MM. THICKNESS 10 $\frac{\text{WIDTH}}{\text{THICKNESS}} \times 10$

4 Cross section pod shape: 1 = FLAT 2 = OVAL 3 = CREASEBACK 4 = ROUND

1 Curvature: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED 2 Pubescence: 1 = NONE 2 = SPARSE 3 = CONSIDERABLE

1 Constrictions: 1 = NONE 2 = SLIGHT 3 = DEEP 2 Spur: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED

1 Surface: 1 = SHINY 2 = DULL 1 Surface: 1 = SMOOTH 2 = BLISTERED

1 Pod flesh: 1 = LIGHT 2 = DARK 1 Pod flesh: 1 = FIRM 2 = WATERY

17 MM. SPUR LENGTH 2 Suture string: 1 = PRESENT 2 = ABSENT

1 Fiber: 1 = NONE 2 = SPARSE 3 = CONSIDERABLE 1 Seed development: 1 = SLOW 2 = MEDIUM 3 = FAST

6 NUMBER OF SEEDS PER POD 22 NUMBER PODS PER PLANT (Once over harvest)

20 NUMBER MARKETABLE PODS PER PLANT (Once over harvest) 1 Machine harvest: 1 = ADAPTED 2 = NOT ADAPTED

8. SEED COAT COLOR:

1 = MONOCHROME 2 = POLYCHROME 1 = SHINY 2 = DULL

Primary color: 1 = WHITE 2 = YELLOW 3 = BUFF 4 = TAN
 Secondary color: 5 = BROWN 6 = PINK 7 = RED 8 = PURPLE
9 = BLUE 10 = BLACK 11 = OTHER (Specify) _____

Color pattern: 1 = SPLASHED 2 = MOTTLED 3 = STRIPED 4 = FLECKED 5 = DOTTED

Secondary color location: 1 = HILAR RING 2 = HILAR SURFACE
3 = STROPHIOLE 4 = MICROPYLE
5 = SIDES 6 = DORSAL SURFACE
7 = NOT RESTRICTED TO ANY AREA 8 = COMBINATION OF LOCATIONS (Specify) _____

1 Hilar ring: 1 = NOT PRESENT 2 = NARROW 3 = BUTTERFLY SHAPED

2 Vein-like under coat pattern: 1 = ABSENT 2 = PRESENT

9. SEED SHAPE AND SIZE:

2 Hilum view: 1 = ELLIPTICAL 2 = OVAL 3 = ROUND 3 Side view: 1 = OVAL 2 = ROUND
3 = KIDNEY 4 = TRUNCATE ENDS

4 Cross section: 1 = ELLIPTICAL 2 = OVAL 32 GM. WEIGHT PER 100 SEEDS
3 = CORDATE 4 = ROUND

4 Classification: 1 = PEA 2 = MEDIUM 3 = MARROW 4 = KIDNEY 5 = PINTO

06 MM. WIDTH (Dorsal to ventral) 06 MM. THICKNESS (Side to side) 7

14 MM. LENGTH 010 $\frac{\text{WIDTH}}{\text{THICKNESS}} \times 10$