



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Charter 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.)

BEAN

'White Seeded Provider'

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, DC this 10th day of June 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

Earl Butz
Secretary of Agriculture

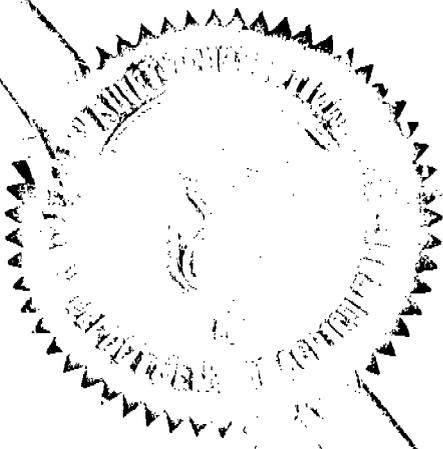


EXHIBIT A

ORIGIN AND BREEDING HISTORY OF WHITE SEEDED PROVIDER

This variety was developed entirely from white seed found in a lot of Provider. Several seeds were planted next to a row of Provider, and one plant was selected as being very nearly identical in all aspects to Provider. Seed from this plant was harvested and winter increased in the greenhouse. In 1971 seed from the greenhouse was again planted next to Provider for additional comparisons. Again no definite differences were observed in the plant and pod types of the two plantings. At this time we decided to go ahead with a full increase program. No further selection work was done. The seed increase fields have been carefully observed. At this time only the flat pod rogue has been found. It is relatively infrequent.

EXHIBIT E

STATEMENT OF BASIS OF APPLICANT'S OWNERSHIP

The original discovery of the white seed was by Charter Seed Co. personnel during milling of a Charter lot of Provider. All subsequent selection, evaluation, and increase was done by Charter Seed Co.'s research staff.

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION White Seeded Provider	2. KIND NAME Beans	FOR OFFICIAL USE ONLY	
		PV NUMBER 7400047	
3. GENUS AND SPECIES NAME Phaseolus vulgaris	4. FAMILY NAME (Botanical) Leguminosae	FILING DATE 1.4.74	TIME 4 P.M.
		FEE RECEIVED \$ 250	BALANCE DUE \$ —
	5. DATE OF DETERMINATION 1969	\$ 250	\$ —
6. NAME OF APPLICANT(S) Charter Seed Co.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box Y Twin Falls, Idaho 83301	8. TELEPHONE AREA CODE AND NUMBER 1-208-733-042	
		11. DATE OF INCORPORATION Jan., 1946	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. STATE OF INCORPORATION Idaho	

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

Lynn B. Kerr
c/o Charter Seed Co.
P. O. Box Y
Twin Falls, Idaho 83301

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. previously sent
 - 13B. Exhibit B, Botanical Description of the Variety
 - 13C. Exhibit C, Objective Description of the Variety previously sent
 - 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 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? 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.

Jan 25 1974
(DATE)

Jan 25 1974

James L. Mussen, Pres 1
(SIGNATURE OF APPLICANT)

Robert D. Watson, Sec. - Treas
(SIGNATURE OF APPLICANT)

EXHIBIT B

This variety is a green-podded, bush bean with white seed. The seed is a little larger than average with a slight curve. The bush type is strongly upright, and appears to have excellent vigor. Pods are borne well up off the soil, and are straight. Pod fiber development is fairly fast. The variety is most adapted to shipping, as is Provider, but the white seed makes it possible to use it also as a processor. One characteristic of the plant is an upright orientation of top leaves which appear to face the light source, and thus may have some photosynthetic advantages.

EXHIBIT D

This variety is most similar to Provider. Seed shape and size appears identical. The major difference is of course the seed color. Pod and plant differences are very difficult to observe. Many people who have observed this variety feel it is entirely identical to Provider, except for seed color, up to prime pod stage. However, two other differences have been observed here in Idaho. They are the leaf orientation mentioned in Exhibit B, and slower pod senescence, resulting in the White Seeded variety reaching seed threshing stage later than Provider.

EXHIBIT E

White Seeded Provider is solely owned by Charter Seed Co. The original seed was found by Charter Seed Co. personnel, and subsequent selection and seed increase work was done on their trial grounds by their research staff.

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

OBJECTIVE DESCRIPTION OF VARIETY
BEAN (*PHASEOLUS VULGARIS*)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) CHARTER SEED CO.	FOR OFFICIAL USE ONLY	
	PVPO NUMBER 94-47	
	VARIETY NAME OR TEMPORARY DESIGNATION WHITE SEEDED REF- W. S. Provider	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)		

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9 or less.

1. TYPE:

<input type="text" value="1"/>	1 = SNAPBEAN	2 = GREEN SHELL	3 = DRY EDIBLE	4 = MULTIPURPOSE
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2. SEASON AND REGION OF ADAPTABILITY IN THE U.S.:

<input type="text" value="2"/>	Grows best during:	1 = SPRING	2 = SUMMER	3 = FALL	4 = WINTER
<input type="text" value="6"/>	Best adapted in:	1 = NORTHWEST 5 = SOUTHWEST	2 = NORTHCENTRAL 6 = MOST-REGIONS	3 = NORTHEAST	4 = SOUTHEAST

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

<input type="text" value=""/>	<input type="text" value=""/>	GREEN PODS	<input type="text" value=""/>	<input type="text" value=""/>	GREEN SHELLS	<input type="text" value=""/>	<input type="text" value=""/>	DRY SEEDS
<input type="text" value="05"/>	NO. DAYS EARLIER THAN	-----	<input type="text" value="1"/>	} 1 = TENDERCROP 4 = WHITE KIDNEY 7 = BUSH BLUE LAKE	2 = KENTUCKY WONDER 5 = MICHELITE 62	3 = KINGHORN WAX 6 = DWARF HORTI-CULTURAL	8 = OTHER (Specify) Provider	
<input type="text" value="01"/>	NO. DAYS LATER THAN	-----	<input type="text" value="8"/>					

4. PLANT:

<input type="text" value="1"/>	1 = DETERMINATE, ERECT BUSH 3 = DETERMINATE, SEMIPOLE	2 = DETERMINATE, SPRAWLING BUSH 4 = INDETERMINATE, POLE	
<input type="text" value="045"/>	CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE		
<input type="text" value="004"/>	NUMBER PRIMARY BRANCHES PER MAIN STALK	<input type="text" value="40"/>	CM. SPREAD
<input type="text" value="2"/>	Branching habit: 1 = COMPACT 2 = OPEN	<input type="text" value="05"/>	NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE
<input type="text" value="02"/>	CM. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF	<input type="text" value="10"/>	MM. STALK DIAMETER ABOVE FIRST TRIFOLIATE LEAF
<input type="text" value="2"/>	Main stalk: 1 = BRITTLE 2 = WIREY <input type="text" value="1"/> 1. STOUT 2. THIN		
<input type="text" value="2"/>	Flower position: } 1 = LOW, CONCENTRATED 2 = HIGH, CONCENTRATED 3 = SCATTERED		
<input type="text" value="2"/>	Pod Position: }		

5. LEAVES:

<input type="text" value="1"/>	1 = SMOOTH 2 = WRINKLED	<input type="text" value="2"/>	1 = DULL 2 = GLOSSY	<input type="text" value="2"/>	Thickness: 1 = THIN 2 = MEDIUM 3 = THICK
<input type="text" value="3"/>	Size: 1 = SMALL (Earliwax) 2 = MEDIUM 3 = LARGE (Tendercrop)	<input type="text" value="10"/>	CM. PETIOLE LENGTH (To basal leaflets of first trifoliolate leaf)		
<input type="text" value="2"/>	Tip shape of center leaflet: 1 = ROUNDED 2 = TAPER POINTED 3 = SHARP POINTED				
<input type="text" value="2"/>	PUBESCENCE - Dorsal: } 1 = NONE 2 = SLIGHT 3 = CONSIDERABLE				
<input type="text" value="1"/>	PUBESCENCE - Ventral: }				
<input type="text" value="3"/>	Color: 1 = LIGHT GREEN (Bountiful) 2 = MEDIUM GREEN 3 = DARK GREEN (Bush Blue Lake)				

6. FLOWERS:

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

Racemes: 1 = LONG 2 = MEDIUM 3 = SHORT 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) _____

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

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

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

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

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

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

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

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

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

NUMBER MARKETABLE PODS PER PLANT (Once over harvest) 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) _____

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

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

9. SEED SHAPE AND SIZE:

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

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

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

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

MM. LENGTH $\frac{\text{WIDTH}}{\text{THICKNESS}} \times 10$ 4

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

FLOWERS STEMS PODS SEEDS LEAVES

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 type="checkbox"/> HALO BLIGHT | <input type="checkbox"/> FUSCOUS BLIGHT |
| <input type="checkbox"/> ALFALFA MOSAIC VIRUS | <input type="checkbox"/> ALFALFA MOSAIC VIRUS 2 |
| <input 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)

HEAT COLD DROUGHT OTHER (Specify) _____

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.