No. 7500045

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Western 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 (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Green Sugar'

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* 24th *day of* November *in the year of our Lord one thousand nine hundred and* seventy-five

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

FORM GR-470
(12-15-72)

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

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION Green Sugar	2. KIND NAME Peas	FOR OFFICIAL USE ONLY PV NUMBER 7500045
3. GENUS AND SPECIES NAME Pisum Sativum	4. FAMILY NAME *(Botanical)* Leguminosae	FILING DATE 1.6.75 TIME 4 P.M.
	5. DATE OF DETERMINATION 1969	FEE RECEIVED $250 $250 $250 BALANCE DUE $ — $ — $ —
6. NAME OF APPLICANT(S) Western Valley Seed Co.	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* 317 D. Street P. O. Box 855 Lewiston, Idaho 83501	8. TELEPHONE AREA CODE AND NUMBER 208-743-6261
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* Corporation	10. STATE OF INCORPORATION Idaho	11. DATE OF INCORPORATION January 27, 1953

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:
Ardie G. Gustafson, President
Western Valley Seed Co.
P. O. Box 855
Lewiston, Idaho 83501

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

- [XX] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [XX] 13B. Exhibit B, Botanical Description of the Variety
- [XX] 13C. Exhibit C, Objective Description of the Variety
- [XX] 13D. Exhibit D, Data Indicative of Novelty
- [XX] 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.)* [XX] YES [X] NO 8/8/75

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [ ] YES [X] 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.

1/3/75
(DATE)

Ardie G. Gustafson
(SIGNATURE OF APPLICANT)

(DATE)

1
(SIGNATURE OF APPLICANT)

7500045

EXHIBIT " A "

Origin and Breeding History of the Variety

1. "Green Sugar" originated in Idaho in 1965 from a hand pollinated cross between Alaska X B104 X B109 X AA-15 as the male parent and Scout Selection X W. V. 5C Early Perfection Selection as the female parent.

2. From the original cross subsequent generations were multiplied in Idaho thru greenhouse and outside plot production. Pure Line Selections were made in the F6 generation at Oregon State University at the University Enation and Streak Virus plot in 1969. At this time, it was established that "Green Sugar" was Enation and Streak Resistant. In 1971 the variety was tested by Nordreco of Bjuv, Sweden. In 1972 further testing was conducted at Unilever Research Laboratories of Unilever Limited of Bedford, England. The variety has been tested by three commercial processors in the United States.

3. This variety was stabilized in the sixth generation. Subsequent generations have not shown variants that would require rouging.

EXHIBIT " B "

Botanical Description of the Variety

"Green Sugar" is a sugar pea (edible pod) with the capability of being an edible pod or with a longer maturity (100 Tenderometer) of being a vining pea with excellent quality as a freezer. The variety has a stiff straw, perfection type vine, internodes short and zigzag with a growth habit of sixteen to eighteen inches. First infloresence being on the eleventh node, plant will do some branching. Node color is green. Leaflets are paired two or more, medium wax. Stipules are larger than leaflets, very dark green vine type. Flowers are white with greenish venation, bearing mostly double pods. Seed is wrinkled with yellow Cotyledones. The variety resembles Scout for dark green foliage and short internodes with yellow Cotyledones. The difference being smaller seed size, thinner pod walls at maturity. Resistance to Enation and Streak Virus.

7500045

9. PODS:

[2] Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED

[1] End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)

[3] Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman) 4 = OTHER (Specify) _____

[1] Surface: 1 = SMOOTH 2 = ROUGH

[1] Surface: 1 = SHINY 2 = DULL

[2] Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) _____

[0 7] CM. LENGTH

[1 6] MM. WIDTH (Between sutures)

[8] NO. SEEDS PER POD

9. SEEDS (95 - 100 Tendorometer):

[3] Color: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = OTHER (Specify) _____

Seive: %	1	2	3	4	5	6	7	8	AVERAGE
	3	16	31	34	10	6			350

SEEDS (Dry, Mature):

[2] Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED

[3] Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED

[1] Surface: 1 = SHINY 2 = DULL

[1] Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED

[2] Primary Color: 1 = CREAMY-WHITE 2 = CREAM & GREEN 3 = LIGHT GREEN 4 = MEDIUM GREEN 5 = DARK GREEN 6 = BLUE-GREEN 7 = YELLOW 8 = BROWN 9 = RED

[3] Secondary Color: 10 = GRAY 11 = BLACK

[2] Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK

[2] Cotyledon Color: 1 = GREEN 2 = YELLOW 3 = ORANGE

[18] GRAMS PER 100 SEEDS

10. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[ ] FUSARIUM WILT	[ ] NEAR WILT	[ ] DOWNY MILDEW
[ ] ASCOCHYTA BLIGHT	[ ] POWDERY MILDEW	[ ] BACTERIAL BLIGHT
[ ] MOSAIC	[2] PEA ENATION MOSAIC	[ ] YELLOW BEAN MOSAIC

[2] OTHER (Specify) Streak Virus

11. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

[0] APHIDS

[0] OTHER (Specify) _____

12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	Scout	Fresh Seed Color	Scout
Leaf Color	Scout	Mature Seed Color	Scout
Pod Color	Scout	Seed Shape	Scout
Pod Shape	Alderman	Plant Habit	Scout

COMMENTS:

EXHIBIT " D "

Data Indicative of Novelty

Novelty is based on the combination of the following characters.

"Green Sugar" most closely resembles "Scout", except it is (1) resistant to Enation, and Streak Virus, (2) is an edible pod, or a vining pea of freezer quality, (3) has a thinner pod wall at maturity, smaller seed size.

EXHIBIT " E "

Statement of Applicant's Ownership

Western Valley Seed Company, of Lewiston, Idaho believes it is the sole original and first breeder of the "Green Sugar" variety of pea seed for which it solicits a Certificate of Protection.

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.

RECEIVED
JAN 6 1975
AMS, GRAIN DIV.
PVPO