No. 7400083

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow 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

'Bush Blue Lake 47'

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* 20th *day of* November *in the year of our Lord one thousand nine hundred and* seventy-four

Attest:

S. G. Rollin

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Butz

Secretary of Agriculture

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-12 (10-2-72)

EXHIBIT C (Bean)

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

OBJECTIVE DESCRIPTION OF VARIETY

BEAN (*PHALEOLUS VULGARIS*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
ASGROW SEED COMPANY

ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*

FOR OFFICIAL USE ONLY

PVPO NUMBER
7400083

VARIETY NAME OR TEMPORARY DESIGNATION
~~XP-B67~~ BUSH BLUE LAKE 47 RJS

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:

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

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

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

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

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

[7][4] GREEN PODS [ ][ ] GREEN SHELLS [ ][ ] DRY SEEDS

[ ][ ] NO. DAYS EARLIER THAN --------- [1]
[0][5] NO. DAYS LATER THAN ---------- [1]

1 = TENDERCROP 2 = KENTUCKY WONDER 3 = KINGHORN WAX 4 = WHITE KIDNEY 5 = MICHELITE 62 6 = DWARF HORTICULTURAL 7 = BUSH BLUE LAKE 8 = OTHER *(Specify)*

4. PLANT:

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

[0][5][8] CM. HEIGHT OR LENGTH OF VINE FROM PRIMARY LEAF NODE

[0][0][5] NUMBER PRIMARY BRANCHES PER MAIN STALK

[5][6] CM. SPREAD

[1] Branching habit: 1 = COMPACT 2 = OPEN

[0][5] NUMBER INTERNODES ON MAIN STALK BETWEEN PRIMARY LEAF AND BASE OF TERMINAL INFLORESCENCE

[0][2] CM. LENGTH OF FIRST INTERNODE ABOVE PRIMARY LEAF

[0][8] MM. STALK DIAMETER ABOVE FIRST TRIFOLIATE LEAF

[2] Main stalk: 1 = BRITTLE 2 = WIREY [/] 1. STOUT 2. THIN

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

5. LEAVES:

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

[3] Size: 1 = SMALL *(Earliwax)* 2 = MEDIUM 3 = LARGE *(Tendercrop)*

[11] CM. PETIOLE LENGTH *(To basal leaflets of first trifoliate leaf)*

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

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

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

4

BUSH BLUE LAKE 47 ~~XP-B47~~ #7400083

6. FLOWERS:

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

[2] Racemes: 1 = LONG 2 = MEDIUM 3 = SHORT [5] NUMBER FLOWERS PER RACEME

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

[3] 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)* _____

[1 4] CM. LENGTH [0 9] MM. WIDTH *(Between sutures)* [0 9] MM. THICKNESS [1 0] WIDTH/THICKNESS X 10

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

[2] 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

[2] Surface: 1 = SHINY 2 = DULL

[1] Surface: 1 = SMOOTH 2 = BLISTERED

[2] Pod flesh: 1 = LIGHT 2 = DARK

[1] Pod flesh: 1 = FIRM 2 = WATERY

[14] MM. SPUR LENGTH

[2] Suture string: 1 = PRESENT 2 = ABSENT

[2] Fiber: 1 = NONE 2 = SPARSE 3 = CONSIDERABLE

[1] Seed development: 1 = SLOW 2 = MEDIUM 3 = FAST

[6] NUMBER OF SEEDS PER POD

[ ] NUMBER PODS PER PLANT *(Once over harvest)*

[ ] NUMBER MARKETABLE PODS PER PLANT *(Once over harvest)*

[1] Machine harvest: 1 = ADAPTED 2 = NOT ADAPTED

8. SEED COAT COLOR:

[1] 1 = MONOCHROME 2 = POLYCHROME

[1] 1 = SHINY 2 = DULL

[1] Primary color: [-] Secondary color:
1 = WHITE 2 = YELLOW 3 = BUFF 4 = TAN
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:

[1] 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 3 = CORDATE 4 = ROUND

[26] GM. WEIGHT PER 100 SEEDS

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

[0 5] MM. WIDTH *(Dorsal to ventral)*

[0 5] MM. THICKNESS *(Side to side)*

[1 3] MM. LENGTH

[0 1 0] WIDTH/THICKNESS X 10

BUSH BLUE LAKE 47 ~~XP-B47~~ # 7400083

RJS

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

[1] FLOWERS [1] STEMS [1] PODS [1] SEEDS [1] LEAVES

11. DISEASE RESISTANCE *(0 = Not tested; 1 = Susceptible; 2 = Resistant):*

[0]	RUST *(Specify race)* _____	[0]	ANGULAR LEAF SPOT
[0]	BACTERIAL WILT	[2]	COMMON BEAN MOSAIC
[0]	ANTHRACNOSE	[0]	YELLOW BEAN MOSAIC
[0]	SOUTHERN BEAN MOSAIC	[0]	FUSARIUM ROOT ROT
[0]	CURLY TOP	[2]	N.Y. 15 BEAN MOSAIC
[0]	POWDERY MILDEW	[0]	BEAN MOSAIC VIRUS 4
[0]	HALO BLIGHT	[0]	FUSCOUS BLIGHT
[0]	ALFALFA MOSAIC VIRUS	[0]	ALFALFA MOSAIC VIRUS 2
[0]	POD MOTTLE VIRUS	[0]	RED NODE VIRUS
[0]	ROOT KNOT NEMATODE	[0]	OTHER *(Specify)* _____

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

[0]	APHIDS	[0]	LEAF HOPPERS
[0]	POD BORER	[0]	LYGUS
[0]	THRIPS	[0]	WEAVILS
[0]	SEED CORN MAGGOT	[0]	OTHER *(Specify)* _____

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

[0] HEAT [0] COLD [0] DROUGHT [0] 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.

John D. Atkin
March 22, 1974

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF ~~XP-B47~~ BUSH BLUE LAKE 47 AMENDED

Application #7400083

1962 Original cross Roundup X BBL 274

1963 F_1 grown in field.
F_2 grown in greenhouse in fall.

1964 F_3 was grown and single vine selections were made.

1965 F_4 was grown and single vine selections were made.

1966 F_5 was grown and single vine selections were made.

1967 F_6 was grown in greenhouse
$F_6 + 1$ was grown and mass selected.

1968 $F_6 + 2$ grown as a small increase.

OBSERVATION AND YIELD TRIALS

1969 Yield trial
Increase and mass selection

1970 Yield trial
Increase and mass selection

1971 Yield trials and increase

1972 Designated XP-B47

1972 & 1973 Yield trials within Company
Trials outside of Company
Increase

This variety appears to be very stable but does have the normal mutations to flat and stringy pods. These two mutations probably occur in all round podded, stringless varieties.

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 ~~XP-B47~~ BUSH BLUE LAKE 47 - RJS	2. KIND NAME Garden Bean	FOR OFFICIAL USE ONLY PV NUMBER 7400083
3. GENUS AND SPECIES NAME Phaseolus vulgaris	4. FAMILY NAME *(Botanical)* Leguminosae	FILING DATE 4·3·74 TIME 8 A.M. ~~P.M.~~
	5. DATE OF DETERMINATION 1971	FEE RECEIVED $ 250 $ 250 $ 250 BALANCE DUE $ — $ — $ —
6. NAME OF APPLICANT(S) Asgrow Seed Company	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* Kalamazoo, Michigan 49001	8. TELEPHONE AREA CODE AND NUMBER (616) 382-4000

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* Corporation	10. STATE OF INCORPORATION Delaware	11. DATE OF INCORPORATION 22 March, 1968

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

Allen R. Trotter
Asgrow Seed Company
Kalamazoo, Michigan 49001

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, Botanical Description of the Variety

[X] 13C. Exhibit C, Objective Description of the Variety

[X] 13D. Exhibit D, Data Indicative of Novelty

[X] 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 [X] NO

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.

April 8, 1974
(DATE)

Allen Trotter
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

#7400083

EXHIBIT B

BOTANICAL DESCRIPTION OF ~~XP-B47~~ BUSH BLUE LAKE 47 RJS

XP-B47 represents what we consider to be a new type of bean. Bush Blue Lake varieties have been developed with Blue Lake Pod quality but the plant type has been generally floppy. No Bush Blue Lake on the market today, to our knowledge, combines the plant type, pod setting ability and other good characters of Tendercrop type beans with Blue Lake pod quality. XP-B47 has an excellent Tendercrop type plant along with a Blue Lake pod.

XP-B47 is a late bean in that it takes about 5 days longer to reach processing maturity at Twin Falls, Idaho, than Tendercrop. The plant is larger than most other bush varieties but is very erect, but may go down if heavily loaded with pods and then subjected to a wind driven rain. The branching habit is very compact and upright until heavily loaded with pods. The main stalk of the plant is very stout and seldom breaks. The pods are generally borne high in the plant and at Twin Falls they seldom touch the ground. The plant type coupled with the pod position is probably responsible for reports that the variety is well adapted to mechanical harvest. The plant type is entirely different from the floppy habit of Bush Blue Lake 274 and other Blue Lake varieties.

The leaves of XP-B47 are similar to Tendercrop leaves rather than the Bush Blue Lake. The leaves are only medium green in color and are borne more erect to give much less sprawl than is normal for Bush Blue Lakes. The flowers are white.

The pods are basically Blue Lake in texture, flavor and processed quality. The smoothness, straightness and some other visible characters are somewhat similar to Tendercrop type beans. The pods are dark green in color, fairly long and very nearly round in the large sieve sizes rather than creaseback. The pods are smooth, nearly straight, stringless and develop seed and fiber very slowly. The seed is white and kidney shaped. There is no anthocyanin in flowers, seeds, pods or plants.

XP-B47 is resistant to common bean mosaic, and N. Y 15 mosaic, but has not been tested for resistance to other diseases.

XP-B47 has not been specifically tested for resistance to heat, drouth, etc., but it has been tested in yield trials, etc., in all sections of the United States, and also in Europe. It has been proven to be very widely adapted and sets a good crop under a wide range of conditions. This is in direct contrast to the narrow range of adaptability found in most Bush Blue Lake varieties.

NOTE: XP-B47 IS THE TEMPORARY DESIGNATION FOR 'BUSH BLUE LAKE 47' RJS

EXHIBIT D

PROOF OF NOVELTY

Bush Blue Lake 47 ~~XP-B47~~ is a new type of bean which has a Tendercrop type vine and a Blue Lake pod. As such it resembles Tendercrop varieties in some respects and Bush Blue Lake varieties in other respects. At the same time XP-B47 differs from both types.

The plant type of 'Bush Blue Lake 47' ~~XP-B47~~ most nearly resembles 'Checkmate' ~~XP-B46~~ but differs in the following respects:

1. XP-B47 has a Blue Lake pod whereas XP-B46 has a Tendercrop pod. This has been determined by taste test, observation, etc., by Asgrow personell, USDA, bean breeders and processors. A shake test was conducted to compare XP-B47 with BBL 274 and XP-B47 was as resistant to steam table conditions as BBL 274.

2. XP-B47 pods are more nearly perfectly round and also longer than those of XP-B46. Data collected from periodic harvests at Twin Falls, Idaho, in 1972 and 1973 are given below. Each figure in the table is the average of 10 pods.

Harvest Date	Pod Length in mm of 5 Sieve Pods XP-B-46	XP-B47	Width Thickness XP-B46	Index XP-B47
8/2/72	136	144	.95	.97
8/4/72	142	153	.91	.98
8/7/72	142	149	.86	.93
8/9/72	150	146	.89	.92
Average	142	148	.90	.95
8/11/73	142	149	.98	.97
8/13/73	138	147	.94	.95
8/15/73	137	147	.92	.97
8/17/73	134	144	.90	.99
8/20/73	147	141	.89	.93
8/22/73	138	141	.91	.92
Average	139	145	.92	.96
Two yr Average	141	146	.91	.95

XP-B47 resembles Bush Blue Lake varieties in pod type in some respects. Probably XP-B47 resembles BBL 274 closer than any other Bush Blue Lake variety but the varieties are radically different as follows:

1. Bush Blue Lake has a very floppy bush as compared to XP-B47. The plant types are entirely different. Numerical data on plant sprawl are not available but the differences are very great and recognized by anyone who has seen a comparison.

2. Bush Blue Lake 274 at Twin Falls, Idaho, was one day earlier in 1972 and four days earlier in 1973.

3. Bush Blue Lake 274 is more creaseback and larger sieve than XP-B47. Following are data collected at Twin Falls, Idaho.

7400083

Harvest Date		% 5 Sieve & Over		Width Thick.	Index
BUSH BLUE LAKE 47 RJS ~~XP-B47~~	BBL 274	XP-B47	BBL 274	XP-B47	BBL 274
8/2/72	8/1/72	19	52	.97	.95
8/4/72	8/3/72	30	61	.98	.93
8/7/72	8/5/72	49	81	.93	.88
8/9/72	8/7/72	57	82	.92	.89
	8/9/72	-	89	-	.82
Average		39	73	.95	.89
8/11/73	8/7/73	29	42	.97	.91
8/13/73	8/9/73	34	64	.95	.90
8/15/73	8/11/73	51	62	.97	.88
8/17/73	8/13/73	55	70	.99	.91
8/20/73	8/15/73	72	79	.93	.93
8/22/73	8/17/73	82	86	.92	.88
Average		54	67	.96	.90
Two Yr. Average		48	70	.95	.90

NOTE: XP-B47 WAS THE TEMPORARY DESIGNATION FOR 'BUSH BLUE LAKE 47' RJS

XP-B46 WAS THE TEMPORARY DESIGNATION FOR 'CHECKMATE'

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.

7400083

EXHIBIT E

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

Bean ~~XP B47~~ BUSH BLUE LAKE 47

Bean XP B47 was originated by Dr. W. Pierce and was reselected and further developed by Dr. C. G. Briggs and Dr. John Atkin. All three were Asgrow plant breeders. By agreement between employee and Asgrow Seed Company, all rights to any invention, discovery, or development made by an employee are assigned to the company. No rights to such invention, discovery, or development are retained by the employee.