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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Garden Bean (*Phaseolus vulgaris* L.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME

ADDRESS *(Street and No. or RD No., City, State, Zip Code, and Country)*	FOR OFFICIAL USE ONLY
	PVPO NUMBER

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., 0 9 9 or 0 9) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties centered in the same trial. Measured data should be for SPACED PLANTS. Ranges should also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: _____.
Please answer all questions for your variety; lack of response may delay progress of your application.

1. TYPE:

☐ 1 = Garden 2 = Flageolet 3 = Romano

2. MARKET MATURITY:

☐☐ Days to Edible Pods

☐☐☐☐ Heat Units to Edible Pods

☐☐ Number of Days Earlier Than ☐
Same As ☐ Comparison Variety
☐☐ Number of Days Later Than ☐

Comparison Varieties

1 = Tender crop 2 = Kentucky Wonder
3 = Gold rush 4 = Slenderette
5 = Gitana 6 = Provider
7 = Bush Blue Lake 290
8 = Other (Specify Below) _____

3. PLANT:

☐☐ cm Spacing Between Plants in a Row

☐ Habit
1 = Determinate
2 = Indeterminate, Erect Stem and Branches
3 = Indeterminate with Weak and Prostrate Stem and Branches
4 = Indeterminate Climbing Habit with Weak, Long, and Twisted Stem and Branches

☐☐☐ cm Height

☐☐ cm Shorter Than ☐
Same Height As ☐ Comparison Variety
☐☐ cm Taller Than ☐

Use Comparison Varieties from Section 2

3. PLANT: (continued)

☐☐ cm Spread

☐☐ cm Narrower Than ☐
Same Width As ☐ } Comparison Variety
☐☐ cm Wider Than ☐

Use Comparison Varieties from Section 2

☐ Pod Position 1 = Low 2 = High 3 = Scattered

☐ Bush Form (Illustrated Below)

1 = Spherical Bush Form 2 = Stem Bush Form 3 = Wide Bush Form 4 = High Bush Form

5 = Other (Specify) _____

4. LEAVES:

☐ Surface: 1 = Dull 2 = Glossy 3 = Indeterminate

☐ Size: 1 = Small (Gitana) 2 = Medium 3 = Large (Tender Crop)

☐ Color: 1 = Light Green (as Light or Lighter than Gold Rush)
2 = Medium Green
3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)

5. ANTHOCYANIN PIGMENT: 1 = Absent 2 = Present

☐ Flowers ☐ Stems ☐ Pods ☐ Seeds
☐ Leaves ☐ Petioles ☐ Peduncles ☐ Nodes

6. FLOWER COLOR AND DAYS TO BLOOM:

☐ Color of Standard
☐ Color of Wings
☐ Color of Keel
☐☐ Days to 50% Bloom

Flower Color Choices
1 = White 2 = Cream
3 = Pink 4 = Lilac
5 = Purple 6 = Blue
7 = Other (Specify) _____

7. PODS (Edible Maturity):

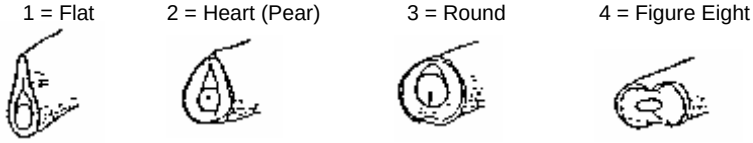
☐ Exterior Color (Fresh)
1 = Light Green (as Light or Lighter than Provider)
2 = Medium Green
3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)
4 = Yellow (Gold Rush)
5 = Green-red Variegated (Horticultural)
6 = Other (Specify) _____

☐ Processed Pods (Exterior Color) 1 = Light (Tender Crop) 2 = Dark (Bush Blue Lake 290)

☐ Dry Pod Color 1 = Buckskin (Sprite) 2 = Green, Persistent Chlorophyll (Hystyle)

7. PODS (continued):

☐ Cross Section Pod Shape: (Middle of the Pod) 1 = Flat 2 = Heart (Pear) 3 = Round 4 = Figure Eight



☐ Crease Back 1 = Present 2 = Absent

☐ Pubescence 1 = None (Slenderette) 2 = Sparse 3 = Considerable (Provider or Sprite)

☐ Constriction (Interlocular Cavitation) 1 = None 2 = Slight 3 = Deep

☐☐ mm Spur Length

☐ Fiber 1 = None (Bush Blue Lake 290) 2 = Sparse 3 = Considerable (Sprite)

☐ Number of Seeds per Pod

☐ Suture String 1 = Present 2 = Absent

☐ Seed Development 1 = Slow (Bush Blue Lake 290) 2 = Medium 3 = Fast (Provider)

☐ Machine Harvest 1 = Adapted 2 = Not Adapted

Percent sieve size distribution at optimum maturity for not-flat pods

4.76 to 5.76mm	5.76 to 7.34mm	7.34 to 8.34mm	8.34 to 9.53mm	9.53 to10.72 mm	>10.72mm
%	%	%	%	%	%

3 Sieve	☐☐	cm Length	☐☐	mm width	☐☐	Total mm Thickness
4 Sieve	☐☐	cm Length	☐☐	mm width	☐☐	Total mm Thickness
5 Sieve	☐☐	cm Length	☐☐	mm width	☐☐	Total mm Thickness
6 Sieve	☐☐	cm Length	☐☐	mm width	☐☐	Total mm Thickness

8. SEED COLOR:

☐ Seed Coat Luster: 1 = Shiny 2 = Dull 3 = Semi-Shiny 4 = Variable

☐ Seed Coat: 1 = Monochrome 2 = Polychrome

☐☐ Primary Color: 1 = White 2 = Yellow 3 = Buff 4 = Tan 5 = Brown 6 = Pink 7 = Red 8 = Purple 9 = Blue 10 = Black 11 = Other _____

☐☐ Secondary Color: 1 = White 2 = Yellow 3 = Buff 4 = Tan 5 = Brown 6 = Pink 7 = Red 8 = Purple 9 = Blue 10 = Black 11 = Other _____

☐ Seed Coat Pattern 1 = Solid 1 = Splashed 3 = Mottled 4 = Striped 5 = Flecked 6 = Dotted

☐ Hilar Ring 1 = Absent 2 = Present

☐☐ Hilar Ring Color: 1 = White 2 = Yellow 3 = Buff 4 = Tan 5 = Brown 6 = Pink 7 = Red 8 = Purple 9 = Blue 10 = Black 11 = Other _____

9. SEED SHAPE AND SIZE:

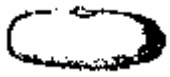
☐ Hilum View

1 = Elliptical 2 = Oval 3 = Round

☐ Cross Section 1 = Elliptical 2 = Oval 3 = Cordate 4 = Round

9. SEED SHAPE AND SIZE: (continued)

☐ Side View



1 = Oval to Oblong

2 = Round

3 = Reniform

☐☐ gm/100 Seeds

☐☐ gm/100 Seeds Lighter Than ☐

gm/100 Seeds Same As ☐ } Comparison Variety

☐☐ gm/100 Seeds Heavier Than ☐

10. DISEASE RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

☐ Anthracnose (*Colletotrichum lindemuthianum*)

☐ Race Alpha ☐ Race Beta ☐ Race Gamma

☐ Race Delta ☐ Race Epsilon ☐ Race Lambda

☐ Race Kappa ☐ Specify Race _____

☐ Bean Rust (*Uromyces appendiculatus*)

☐ Race 38 ☐ Race 39 ☐ Race 40 ☐ Race 44

☐ Race 45 ☐ Race 46 ☐ Race 49 ☐ Race 50

☐ Race 51 ☐ Race 52 ☐ Race 54 ☐ Race 56

☐ Race 59 ☐ Specify Race _____

☐ Powdery Mildew (*Ersiphe polygoni*)

☐ Fusarium Root Rot (*Fusarium solani* f. sp. *phaseoli*)

☐ Pythium Root Rot (*Pythium* spp.)

☐ Aphanomyces Root Rot (*Aphanomyces euteiches*)

☐ Rhizoctonia Root Rot (*Rhizoctonia solani*)

☐ Pythium Blight or Aereal Pytium (*Pythium ultimum*)

☐ Angular Leaf Spot (*Isariopsis griseola*)

☐ Bacterial Wilt (*Corynebacterium flaccumfaciens* subsp. *flaccumfaciens*)

☐ Bacterial Brown Spot (*Pseudomonas syringae* pv. *syringae*)

☐ Common Bacterial Blight (*Xanthomonas campestris* pv. *phaseoli*)

☐ Halo Blight (Pseudomonas *syringae* pv. *phaselicola*)

☐ Race 1 ☐ Race 2

☐ Clover Yellow Vein Virus (CYVV)

☐ Bean Common Mosaic Virus (BCMV)

☐ BV1 ☐ NY15 ☐ NL2 ☐ NL3

☐ NL4 ☐ NL8 ☐ Florida ☐ Idaho

☐ Mexican ☐ Western ☐ Type

☐ Other (Specify) _____

☐ Yellow Bean Mosaic Virus (BYMV)

☐ Curly Top Virus (BCTV)

☐ Other (Specify Disease and Race or Strain _____

11. INSECT RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

- ☐ Aphid
- ☐ Leafhopper
- ☐ Lygus
- ☐ Pod Borer
- ☐ Other (Specify) _____
- ☐ Root Knot Nematode
- ☐ Seed Corn Maggot
- ☐ Thrips
- ☐ Weevils

12. PHYSIOLOGICAL RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

- ☐ Heat
- ☐ Cold
- ☐ Drought
- ☐ Air Pollution
- ☐ Ozone
- ☐ Other (Specify) _____

13. COMMENTS: