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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE**

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY
Field 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:

Provide data for all characters unless indicated as "optional". Place numbers in the boxes for the characters or numerical values that best describe this variety. Measured data should be the mean of an appropriate number of well spaced (15-20 cm) plants. The Royal Horticultural Society or any recognized color standard may be used to determine plant color. Designate the color system used below.

<p>COLOR SYSTEM USED:</p>	<p>LOCATION OF THE TEST(S) TO EVALUATE THIS VARIETY:</p>			
<p>1. MARKET CLASS:</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align: center;"> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> </td> <td style="width:40%;"> <p><u>CLASS</u></p> <p>1 = Navy (Pea)</p> <p>2 = Small White</p> <p>3 = Black</p> <p>4 = Pinto</p> <p>5 = Great Northern</p> <p>6 = Small Red</p> <p>7 = Pink</p> <p>8 = Cranberry</p> <p>9 = Dark Red Kidney</p> <p>10 = Light Red Kidney</p> <p>11 = Yellow Eye</p> <p>12 = Other (Specify _____)</p> </td> <td style="width:50%;"> <p><u>CHECK</u></p> <p>Seafarer</p> <p>Aurora</p> <p>Midnight</p> <p>UI-114</p> <p>UI-59</p> <p>NW-59</p> <p>Viva</p> <p>UI-50</p> <p>Montclair</p> <p>Redcloud</p> <p>Steuben</p> </td> </tr> </table>	<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<p><u>CLASS</u></p> <p>1 = Navy (Pea)</p> <p>2 = Small White</p> <p>3 = Black</p> <p>4 = Pinto</p> <p>5 = Great Northern</p> <p>6 = Small Red</p> <p>7 = Pink</p> <p>8 = Cranberry</p> <p>9 = Dark Red Kidney</p> <p>10 = Light Red Kidney</p> <p>11 = Yellow Eye</p> <p>12 = Other (Specify _____)</p>	<p><u>CHECK</u></p> <p>Seafarer</p> <p>Aurora</p> <p>Midnight</p> <p>UI-114</p> <p>UI-59</p> <p>NW-59</p> <p>Viva</p> <p>UI-50</p> <p>Montclair</p> <p>Redcloud</p> <p>Steuben</p>	<p>2 = MATURITY:</p> <p><input style="width: 20px; height: 20px;" type="checkbox"/> 1 = Early (80-90 days) 2 = Medium (90-100 Days) 3 = Late (> 100 Days)</p> <p><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> Days from Planting to Harvest Maturity</p> <p><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> Heat Units from Planting to Harvest Maturity (Optional). Specify Base Temperature Used: _____</p> <p><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> Days from Planting to Harvest Maturity of Check Variety (Use Check Appropriate to Market Class Shown in Item 1)</p>
<input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/>	<p><u>CLASS</u></p> <p>1 = Navy (Pea)</p> <p>2 = Small White</p> <p>3 = Black</p> <p>4 = Pinto</p> <p>5 = Great Northern</p> <p>6 = Small Red</p> <p>7 = Pink</p> <p>8 = Cranberry</p> <p>9 = Dark Red Kidney</p> <p>10 = Light Red Kidney</p> <p>11 = Yellow Eye</p> <p>12 = Other (Specify _____)</p>	<p><u>CHECK</u></p> <p>Seafarer</p> <p>Aurora</p> <p>Midnight</p> <p>UI-114</p> <p>UI-59</p> <p>NW-59</p> <p>Viva</p> <p>UI-50</p> <p>Montclair</p> <p>Redcloud</p> <p>Steuben</p>		

3. PLANT HABIT:

<p align="center"><u>TYPE</u></p> <p>1 = Ia Bush-determinate, Strong and Erect Stem and Branches</p> <p>2 = Ib Bush-determinate, Weak Stem and Branches</p> <p>3 = IIa Erect Growth Habit-indeterminate, Guides (Runners) short or not developed</p> <p>4 = IIb Erect Growth Habit-indeterminate, Guides Medium to Long, with no Ability to Climb</p> <p>5 = IIIa Vine-indeterminate, Short Guides with no ability to Climb</p> <p>6 = IIIb Vine-indeterminate, Long Guides with Ability to Climb</p> <p>7 = IVa Indeterminate Climbing, Pods Distributed Throughout the Plant</p> <p>8 = IVb Indeterminate Climbing, Pods Concentrated on the Upper Part of the Plant</p>	<p><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> Average Height of Mature Plant, in cm.</p> <p><input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> Average Height of Check Variety, in cm. (Use Same Check as Above)</p> <p><input style="width: 20px; height: 20px;" type="checkbox"/> Pod Position: 1 = Low (Lower Pods Touching Soil Surface) 2 = High (Lower Pods not Touching Soil Surface) 3 = Scattered (Not Concentrated High or Low)</p> <p><input style="width: 20px; height: 20px;" type="checkbox"/> Adaptability to Machine Harvest: 1 = Adapted 2 = Not Adapted</p> <p><input style="width: 20px; height: 20px;" type="checkbox"/> Lodging Resistance: 1 = Good 2 = Fair 3 = Poor</p>
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7. SEED COLOR:

<input type="checkbox"/>	1 = Shiny	<input type="checkbox"/>	2 = Dull	<input type="checkbox"/>	3 = Semi-shiny	<input type="checkbox"/>	4 = Variable	<input type="checkbox"/>	1 = Monochrome	<input type="checkbox"/>	2 = Polychrome	
<input type="checkbox"/>	Primary Color:				<input type="checkbox"/>	Secondary Color:						
	1 = White	2 = Yellow	3 = Buff	4 = Tan	1 = White	2 = Yellow	3 = Buff	4 = Tan	5 = Brown	6 = Pink	7 = Red	8 = Purple
	5 = Brown	6 = Pink	7 = Red	8 = Purple	9 = Blue	10 = Black	11 = Other _____	9 = Blue	10 = Black	11 = Other _____		
<input type="checkbox"/>	Color Pattern:			<input type="checkbox"/>	Hilar Ring:		1 = Absent	2 = Present				
	1 = Solid	2 = Splashed	3 = Mottled	4 = Striped	5 = Flecked	6 = Dotted						
<input type="checkbox"/>	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 _____								

8. SEED SHAPE AND WEIGHT:

<input type="checkbox"/>	Shape of Seed Taken From Middle of Pod:	1 = Round	2 = Oval	3 = Cuboid	4 = Kidney	5 = Truncate Fastigate
						
<input type="checkbox"/>	Dry Seed Weight in g/100g Seeds (Adjusted to 12% Moisture)					

9. ANTHOCYANIN PIGMENTATION:

1 = Absent	<input type="checkbox"/>	Flowers	<input type="checkbox"/>	Stems	<input type="checkbox"/>	Pods	<input type="checkbox"/>	Seeds
2 = Present	<input type="checkbox"/>	Leaves	<input type="checkbox"/>	Petioles	<input type="checkbox"/>	Peduncles	<input type="checkbox"/>	Nodes

10. DISEASE RESISTANCE:

0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

<input type="checkbox"/>	Anthracnose (<i>Colletotrichum lindemuthianum</i>)	<input type="checkbox"/>	Race Alpha	<input type="checkbox"/>	Race Beta	<input type="checkbox"/>	Race Gamma		
		<input type="checkbox"/>	Race Delta	<input type="checkbox"/>	Race Epsilon	<input type="checkbox"/>	Race Lambda		
		<input type="checkbox"/>	Race Kappa	<input type="checkbox"/>	Specify Race _____				
<input type="checkbox"/>	Bean Rust (<i>Uromyces appendiculatus</i>)	<input type="checkbox"/>	Race 38	<input type="checkbox"/>	Race 39	<input type="checkbox"/>	Race 40	<input type="checkbox"/>	Race 44
		<input type="checkbox"/>	Race 45	<input type="checkbox"/>	Race 46	<input type="checkbox"/>	Race 49	<input type="checkbox"/>	Race 50
		<input type="checkbox"/>	Race 51	<input type="checkbox"/>	Race 52	<input type="checkbox"/>	Race 54	<input type="checkbox"/>	Race 56
		<input type="checkbox"/>	Race 59	<input type="checkbox"/>	Race 72				
<input type="checkbox"/>	Powdery Mildew (<i>Erysiphe polygoni</i>)								
<input type="checkbox"/>	Fusarium Root Rot (<i>Fusarium solani</i> f. sp. <i>phaseoli</i>)								
<input type="checkbox"/>	Pythium Root Rot (<i>Pythium</i> spp.)								
<input type="checkbox"/>	Aphanomyces Root Rot (<i>Aphanomyces euteiches</i>)								
<input type="checkbox"/>	Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>)								
<input type="checkbox"/>	Pythium Blight or Aereal Pytium (<i>Pythium ultimum</i>)								
<input type="checkbox"/>	Angular Leaf Spot (<i>Isariopsis griseola</i>)								
<input type="checkbox"/>	Bacterial Wilt (<i>Corynebacterium flaccumfaciens</i> subsp. <i>flaccumfaciens</i>)								
<input type="checkbox"/>	Bacterial Brown Spot (<i>Pseudomonas syringae</i> pv. <i>syringae</i>)								
<input type="checkbox"/>	Common Bacterial Blight (<i>Xanthomonas campestris</i> pv. <i>phaseoli</i>)								

10. KNOWN DISEASES REACTION (Continued):

Halo Blight (*Pseudomonas syringae* pv. *phaseolicola*)
 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. KNOWN INSECT/NEMATODE RESISTANCE:

<input type="checkbox"/> Aphid	<input type="checkbox"/> Root Knot Nematode
<input type="checkbox"/> Leafhopper	<input type="checkbox"/> Seed Corn Maggot
<input type="checkbox"/> Lygus	<input type="checkbox"/> Thrips
<input type="checkbox"/> Pod Borer	<input type="checkbox"/> Weevils
<input type="checkbox"/> Other (Specify) _____	
<input type="checkbox"/> Other (Specify) _____	
<input type="checkbox"/> Other (Specify) _____	

12. KNOWN PHYSIOLOGICAL STRESS REACTION: 1 = Susceptible 2 = Resistant 3 = Tolerant 4 = Avoidance

Heat Cold Drought Air Pollution Other (Specify) _____

COLOR: Royal Horticultural Society Colour Chart; Munsell book of color or any recognized color fan may be used to determine color of the described variety.

13. COMMENTS: