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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  
Sweetpea (*Lathyrus* spp.)**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)		<div style="background-color: #cccccc; padding: 2px;"><b>FOR OFFICIAL USE ONLY</b></div> PVPO NUMBER

**PLEASE READ ALL INSTRUCTIONS CAREFULLY:**

In the spaces on the left, enter the appropriate numbers that describe the characteristics of the application variety. On the right, enter the appropriate numbers that describe the characteristics of the most similar comparison variety. Right justify whole numbers by adding leading zeros if necessary. The variety that you choose for comparison should be the most similar one in terms of overall morphology, background and maturity. The comparison variety should be grown in field trials with the application variety for 2-3 location/years (environments) in the region and season of best adaptability. In general, measurements of quantitative traits should be taken from one trial on 15-25 randomly selected plants or plant parts to obtain averages and statistics that describe a typical field of the variety.

**1. SPECIES:**

\_\_\_ 1 = Annual (Odoratus)    2 = Perennial (Latifolius)

Comparison Variety Name \_\_\_\_\_

\_\_\_ Species

**2. TYPE :**

\_\_\_ 1 = Dwarf or Bush (< 35 cm)    2 = Semi Tall (35 – 75 cm)    3 = Tall Climbing (> 75 cm)

\_\_\_ Type

**3. PLANT:**

\_\_\_ cm Tall

\_\_\_ cm Tall

\_\_\_ cm Wide, if Bush

\_\_\_ cm Wide, if Bush

\_\_\_ mm Stem Width Between Wing Edges at First Auxiliary Peduncle

\_\_\_ mm Stem Width

\_\_\_ No. of Internodes on Main Stem

\_\_\_ No. of Internodes on Main Stem

\_\_\_ Leaflet Shape: 1 = Lanceolate    2 = Elliptic    3 = Ovate

\_\_\_ Stem Shape

\_\_\_ mm Leaflet Length

\_\_\_ mm Stem Length

\_\_\_ mm Leaflet Width

\_\_\_ mm Stem Width

\_\_\_ Leaflet Margin Flatness: 1 = Undulate    2 = Flat

\_\_\_ Stem Margin Flatness

\_\_\_ Leaflet Margin: 1 = Entire    2 = Serrate    3 = Incised    4 = Lobed

\_\_\_ Stem Margin

\_\_\_ Stipule Size: 1 = < 1/3 Leaf Length    2 = >1/3 Leaf Length

\_\_\_ Stipule Size

\_\_\_ Stipule Form: 1 = Not Bract-like    2 = Bract-like

\_\_\_ Stipule Form

\_\_\_ Tendril: 1 = Absent    2 = Not Clinging    3 = Clinging

\_\_\_ Tendril

\_\_\_ Tendril Color: 1 = Green    2 = Other Color (Specify) \_\_\_\_\_

\_\_\_ Tendril Color

Color Chart Name \_\_\_\_\_ Color Chart Value \_\_\_\_\_

Color Chart Value \_\_\_\_\_

Application Variety Data

Comparison Variety Data

Application Variety Data	Comparison Variety Data
<b>4. FLOWER:</b>	
___ Class: 1 = Early Winter Flowering    2 = Spring (Cuthbertson)    3 = Summer	___ Class
___ Type: 1 = Single    2 = Occasionally Double    3 = Uniformly Double	___ Type
___ ___ No. Days from Emergence to Anthesis (Field Grown)	___ ___ No. Days from Emergence to Anthesis
___ ___ No. of Flowers per Panicle	___ ___ No. of Flowers per Panicle
___ ___ cm Peduncle Length (to First Flower)	___ ___ cm Peduncle Length (to First Flower)
___ ___ No. Peduncle Per Leaf Axil	___ ___ No. Peduncle Per Leaf Axil
___ Peduncle Shape: 1 = Straight    2 = Slightly Curved    3 = Gooseneck	___ Peduncle Shape
___ Standard Type: 1 = Open    2 = Hooded    3 = Snapdragon	___ Standard Type
___ Standard Shape: 1 = Flat    2 = Waved    3 = Corrugated	___ Standard Shape
___ ___ mm Standard Width	___ ___ mm Standard Width
___ ___ mm Standard Length	___ ___ mm Standard Length
___ Apex Shape: 1 = Acute    2 = Obtuse	___ Apex Shape
___ Apex Form: 1 = Entire    2 = Deep Cleft    3 = Notched	___ Apex Form
___ Sides: 1 = Entire    2 = Serrate    3 = Crenate	___ Sides
___ Sides Size: 1 = Narrow    2 = Broad	___ Sides Size
___ Wing Size: 1 = Narrower than Standard    2 = Equal to Standard    3 = Wider than Standard	___ Wing Size
___ Wing Type: 1 = Closed (Conceals keel)    2 = Partly Open    3 = Broadly Spreading	___ Wing Type
___ Wing Orientation: 1 = Upright    2 = Drooping	___ Wing Orientation
___ Wing Form: 1 = Flat    2 = Waved	___ Wing Form
___ Keel Size: 1 = Small, Tightly Clamped, Curved    2 = Large, Baggy, Less Curved	___ Keel Size
___ Fragrance: 1 = None    2 = Faint    3 = Strong	___ Fragrance
Colors: <i>Select from colors below. Consider only the predominant colors. Select two color codes when necessary, i.e. Whitish-Orange) 01 08 (See References below.)</i>	
01 = White    02 = Light Pink    03 = Bright Pink    04 = Dark Pink    05 = Salmon	
06 = Bright Red    07 = Dark Red    08 = Orange    09 = Lemon    10 = Bright Yellow	
11 = Dark Yellow    12 = Light Brown    13 = Light Blue    14 = Mid-blue    15 = Dark Blue	
16 = Greenish Blue    17 = Other (Specify) _____	
Color Chart Name _____	Color Chart Value _____
___ ___ Monocolor    Color Chart Value _____	___ ___ Monocolor    _____
<b>Patterns for Bicolor or Multicolor:</b>	
___ ___ Standard Ground Color    Color Chart Value _____	___ ___ Standard Ground Color    _____
___ ___ Wing Ground Color    Color Chart Value _____	___ ___ Wing Ground Color    _____
___ ___ Keel Ground Color    Color Chart Value _____	___ ___ Keel Ground Color    _____
___ ___ Standard Stripe Color    Color Chart Value _____	___ ___ Standard Stripe Color    _____
___ ___ Wing Stripe Color    Color Chart Value _____	___ ___ Wing Stripe Color    _____
___ ___ Keel Stripe Color    Color Chart Value _____	___ ___ Keel Stripe Color    _____
___ ___ Standard Flake Color    Color Chart Value _____	___ ___ Standard Flake Color    _____
___ ___ Wing Flake Color    Color Chart Value _____	___ ___ Wing Flake Color    _____
___ ___ Keel Flake Color    Color Chart Value _____	___ ___ Keel Flake Color    _____
Application Variety Data	Comparison Variety Data

Application Variety Data	Comparison Variety Data
<p><b>4. FLOWER: (continued)</b></p> <p><b>Patterns for Bicolor or Multicolor:</b></p> <p>___ ___ Standard Vein Color    Color Chart Value _____</p> <p>___ ___ Wing Vein Color        Color Chart Value _____</p> <p>___ ___ Keel Vein Color         Color Chart Value _____</p> <p>___ ___ Standard Picotee Color   Color Chart Value _____</p> <p>___ ___ Wing Picotee Color      Color Chart Value _____</p> <p>___ ___ Keel Picotee Color      Color Chart Value _____</p>	<p style="text-align: right;">Color Chart Value</p> <p><b>Patterns for Bicolor or Multicolor:</b></p> <p>___ ___ Standard Vein Color    _____</p> <p>___ ___ Wing Vein Color        _____</p> <p>___ ___ Keel Vein Color         _____</p> <p>___ ___ Standard Picotee Color   _____</p> <p>___ ___ Wing Picotee Color      _____</p> <p>___ ___ Keel Picotee Color      _____</p>
<p><b>5. POD: (Mature)</b></p> <p>___ ___ mm Long</p> <p>___ ___ mm Wide</p> <p>___ Pod Shape:    1 = Flat      2 = Oval      3 = Round</p> <p>___ Pod Pubescence:    1 = Glabrous    2 = Pubescent    3 = Hirsute</p> <p>___ No. of Seeds:    1 = Less than 6    2 = 6 – 8      3 = More Than 8</p>	<p>___ ___ mm Long</p> <p>___ ___ mm Wide</p> <p>___ Pod Shape</p> <p>___ Pod Pubescence</p> <p>___ No. of Seeds</p>
<p><b>6. SEED: (Dry)</b></p> <p>___ Seed Color:    1 = White    2 = Cream    3 = Black    4 = Dark Gray    5 = Brown</p> <p>                          6 = Mottled    7 = Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Value _____</p> <p>___ Seed Shape:    1 = Round    2 = Dimpled    3 = Wrinkled</p> <p>___ ___ Grams per 100 Seeds</p>	<p>___ Seed Color</p> <p>Color Chart Value _____</p> <p>___ Seed Shape</p> <p>___ ___ Grams per 100 Seeds</p>
<p><b>7. RESISTANCE TO DISEASE: (0 = Untested; 1 = Susceptible; 2 = Resistant)</b></p> <p>___ Anthracnose</p> <p>___ Mildew</p> <p>___ Spotted Wilt</p> <p>___ Curly Top</p> <p>___ Mosaic</p> <p>___ Streak</p> <p>___ Fasciation (Bacterial)</p> <p>___ Root Rot</p> <p>___ Other (Specify) _____</p>	<p>___ Anthracnose</p> <p>___ Mildew</p> <p>___ Spotted Wilt</p> <p>___ Curly Top</p> <p>___ Mosaic</p> <p>___ Streak</p> <p>___ Fasciation (Bacterial)</p> <p>___ Root Rot</p> <p>___ Other (Specify) _____</p>
<p><b>8. RESISTANCE – OTHER: (0 = Untested; 1 = Susceptible; 2 = Resistant)</b></p> <p>___ Insects (Specify) _____</p> <p>___ Heat</p>	<p>___ Insects (Specify) _____</p> <p>___ Heat</p>
Application Variety Data	Comparison Variety Data

9. Attach ONE photographic print of the application variety and the comparison variety described above, indicating the identity of each variety. This photograph should show flower heads of each variety at a magnification sufficient to identify most of the verbal descriptors given above. (Additional information and photographs in support of this application may be supplied as part of the Exhibits B or D.)

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REFERENCES:

Bailey, L.H., 1949. Manual of Cultivated Plants, Macmillan.  
Genders, Roy, 1957. Sweet Peas. John Gifford, Ltd., London.  
Uniwin, C.W.J., 1952. Sweet Peas, 3 ed., Heffer and Sons Ltd., Cambridge  
USDA Yearbook of Agriculture, 1937. Separate on Improvement of Flowers by Breeding (including references)

Color: Munsell Book of Color, Royal Horticultural Society Colour Chart, Nickerson's or any recognized color fan may be used to determine the color of the variety.

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