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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  
Beet or Chard (*Beta vulgaris* L., *B. v. ssp. cicla* L. (W.Koch) )**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, and Zip Code, Country)		<b>FOR OFFICIAL USE ONLY</b>
		PVPO NUMBER

**PLEASE READ ALL INSTRUCTIONS CAREFULLY:**

Place the appropriate number that describes the varietal character typical of this variety in the spaces below.  
Place a zero in the first box (e.g.  or ) when number is either 99 or less or 9 or less.

**1. KIND:**  
 1 = Garden Beet    2 = Sugar Beet    3 = Mangel    4 = Chard    5 = Other (Specify) \_\_\_\_\_

**2. TYPE (SUGAR):**  
 1 = High Tonnage Yield    2 = High Sugar Yield    3 = Combination Yield

**3. CHROMOSOME POIDY:**  
 1 = Diploid    2 = Tetraploid    3 = Other (Specify) \_\_\_\_\_

**4. SEED:**  
 1 = Multigerm    2 = Monogerm

**5. REGION OF BEST ADAPTATION (Map attached):**  
 1 = Farwest    2 = West    3 = Midwest  
 4 = Northeast    5 = Most Regions

**6. MATURITY:** (  )  Days

<input type="text" value=""/> <input type="text" value=""/>	No. of Days Earlier Than .....	<input type="text" value=""/> <input type="text" value=""/>	1 = Ruby Queen 3 = US H 9B 5 = Giant Lucullus	2 = US H-20 4 = Jumbo Long Red
<input type="text" value=""/> <input type="text" value=""/>	No. of Days Later Than .....	<input type="text" value=""/> <input type="text" value=""/>		

**7. LEAF:**

<input type="checkbox"/> Number: 1 = Sparce (10 – 15) 2 = Numerous (15 and over)	<input type="checkbox"/> Carriage: 1 = Spreading    2 = Semierect    3 = Erect
<input type="checkbox"/> Dimension 1 = Longer than Broad 2 = Broader than Long    3 = Equal	<input type="checkbox"/> Apex: 1 = Pointed    2 = Rounded
<input type="checkbox"/> Surface: 1 = Smooth    2 = Blistered	<input type="checkbox"/> Surface: 1 = Dull    2 = Glossy

7. LEAF: (continued)

Margin: 1 = Wavy 2 = Curled 3 = Other (Specify) \_\_\_\_\_  Margin: 1 = Entire 2 = Incised

Color: 1 = Light Green 2 = Green 3 = Purplish Green 4 = Crimson 5 = Other (Specify) \_\_\_\_\_

Color Change (Spring Planting): 1 = Reddens Early 2 = Redeens Midseason 3 = Reddens Late 4 = Does not Redden

Veins: 1 = White 2 = Yellow 3 = Green 4 = Orange 5 = Red 6 = Other (Specify) \_\_\_\_\_

Average Measurement of Largest Leaf on Each of 10 Plants (without Petiole)   cm Long   cm Wide

8. PETIOLE:

Color: 1 = White 2 = Yellow 3 = Green 4 = Orange 5 = Red 6 = Crimson  1 = Not Twisted 2 = Twisted

cm Long   cm Wide

9. ROOT (Spring planted):

1 = Not Fleshy 2 = Fleshy   mm Crown Diameter

Shoulder Shape: 1 = Square 2 = Sloping 3 = Rounded

Shape: 1 = Flattened 2 = Oblong 3 = Spherical 4 = Conical 5 = Cylindrical

Surface Color – Above ground: } 1 = White 2 = Yellow 3 = Orange

Surface Color – Below ground } 4 = Red 5 = Purple 6 = Brownish Red

Surface Texture: 1 = Smooth 2 = Roughened 3 = Wrinkled

Flesh Color: 1 = White 2 = Yellow 3 = Orange 4 = Vermillion 5 = Light Red 6 = Dark Red

Cross Section Zones: 1 = Indistinct 2 = Distinct

mm Length of Root    mm Largest Diameter   Tap Root 1 = Fine 2 = Medium 3 = Coarse

Exposure Above Ground 1 = None 2 = 25% 3 = 50% 4 = 75%

10. FLOWER COLOR:

Stamens: 1 = Whitish Green 2 = Pink 3 = Red  Stigma: 1 = Whitish Green 2 = Pink 3 = Red

11. SEED STALK (At Maturity):

cm High   cm Above Foliage

12. BOLTING:

More Resistant Than..... 1 = US H 9 B 2 = US H 20

Less Resistant Than ..... 3 = Ruby Queen 4 = Jumbo Long Red 5 = Giant Lucullus

13. STORAGE LIFE:

1 = Longer than US H 20 2 = Shorter than US H20

14. DISEASE RESISTANCE (0 = Untested; 1 = Susceptible; 2 = Resistant):

Cercospora Leaf Spot  Clubroot  Crown Rot (*Rhizocionia*)

Curly Top  Cyst Nematode  Downy Mildew

Root Rot (Black root – *Aphanomycea*)  Yellows (Specify)  Other (Specify) \_\_\_\_\_

**15. INSECT RESISTANCE:** Root Maggot Other (Specify) \_\_\_\_\_**16. INDICATE VARIETIES WHICH MOST CLOSELY RESEMBLE THAT SUBMITTED:**

<b>CHARACTER</b>	<b>NAME OF VARIETY</b>
Foliage Type	
Size of Leaves	
Number of Leaves	
Root Type	
Root Size	
Root Color (Surface)	
Flesh Color	
Juice Purity	
Percent Sucrose	

**COMMENTS:**