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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  
Muskmelon/Cantaloupe (*Cucumis melo* L.)**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)		FOR OFFICIAL USE ONLY
		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. At least one year of trials should be conducted within the United States of America. 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. (Form technical content last updated March 1979.)

Application Variety	Comparison Variety
<b>1. TYPE:</b>  ___ Type:    1 = Persian    2 = Honey Dew    3 = Casaba    4 = Crenshaw 5 = Common or Summer    6 = Other _____	Comparison Variety Name _____  ___ Type
<b>2. AREA OF BEST ADAPTATION IN U.S.A.:</b>  ___ Area of Adaptation:    1 = Southeast    2 = Northeast/North Central    3 = Southwest 4 = Most Areas	___ Area of Adaptation
<b>3. MATURITY:</b>  ___ ___ ___ Days From Seeding to Harvest	___ ___ ___ Days From Seeding to Harvest
<b>4. PLANT:</b>  ___ Fertility:    1 = Andromonoecious    2 = Monoecious    3 = Gynoecious 4 = Other _____  ___ Habit:    1 = Vine    2 = Semi-bush    3 = Bush	___ Fertility  ___ Habit
<b>5. LEAF: (Mature Blade of Third Leaf)</b>  ___ Shape:    1 = Orbicular    2 = Ovate    3 = Reniform ___ Lobes:    1 = Not Lobed    2 = Shallowly Lobed    3 = Deeply Lobed ___ Color:    1 = Light Green (Honey Dew)    2 = Medium Green 3 = Dark Green (Rio Gold)  Color Chart Name _____ Color Chart Code _____  ___ ___ ___ mm Length ___ ___ ___ mm Width ___ Surface:    1 = Pubescent    2 = Glabrous    3 = Scabrous	___ Shape ___ Lobes ___ Color  Color Chart Code _____  ___ ___ ___ mm Length ___ ___ ___ mm Width ___ Surface
<b>Application Variety</b>	<b>Comparison Variety</b>

Application Variety	Comparison Variety
<p><b>6. FRUIT:</b> (at Edible Maturity):</p> <p>___ cm Length</p> <p>___ cm Diameter</p> <p>___ gm Weight</p> <p>___ Shape: 1 = Oblate 2 = Oval 3 = Round 4 = Elongate-Cylindrical 5 = Spindle 6 = Acorn</p> <p>___ Surface: 1 = Smooth 2 = Netted 3 = Corrugated 4 = Warty</p> <p>___ Blossom Scar: 1 = Obscure 2 = Conspicuous</p> <p>___ Rib Presence: 1 = Absent 2 = Present</p> <p>___ No. Ribs per Fruit</p> <p>___ mm Rib Width at Medial</p> <p>___ Ribs Surface: 1 = Smooth 2 = Netted</p> <p>___ Suture Depth: 1 = Shallow (Golden Delight) 2 = Medium 3 = Deep (Hackensack)</p> <p>___ Suture Surface: 1 = Smooth 2 = Netted</p> <p>___ Shipping Quality: 1 = Poor (Home Garden) 2 = Fair (Short Distance Shipping) 3 = Excellent (Long Distance Shipping)</p> <p>___ Fruit Abscission: 1 = When Ripe 2 = When Overripe 3 = Do Not Abscise</p>	<p>___ cm Length</p> <p>___ cm Diameter</p> <p>___ gm Weight</p> <p>___ Shape</p> <p>___ Surface</p> <p>___ Blossom Scar</p> <p>___ Rib Presence</p> <p>___ No. Ribs per Fruit</p> <p>___ mm Rib Width at Medial</p> <p>___ Ribs Surface</p> <p>___ Suture Depth</p> <p>___ Suture Surface</p> <p>___ Shipping Quality</p> <p>___ Fruit Abscise</p>
<p><b>7. RIND NET:</b></p> <p>___ Net Presence: 1 = Absent 2 = Sparse 3 = Abundant</p> <p>___ Distribution: 1 = Spotty 2 = Covers Entire Fruit</p> <p>___ Coarseness: 1 = Fine 2 = Medium Coarse 3 = Very Coarse</p> <p>___ Interlacing: 1 = None 2 = Some 3 = Complete</p> <p>___ Interstices: 1 = Shallow 2 = Medium Deep 3 = Deep</p>	<p>___ Net Presence</p> <p>___ Distribution</p> <p>___ Coarseness</p> <p>___ Interlacing</p> <p>___ Interstices</p>
<p><b>8. RIND TEXTURE:</b></p> <p>___ Texture: 1 = Soft 2 = Firm 3 = Hard</p> <p>___ mm Thickness at Medial</p>	<p>___ Texture</p> <p>___ mm Thickness at Medial</p>
<p><b>9. RIND COLOR:</b> Select from colors below. Consider only the predominant colors. Select two color codes when necessary, i.e. Creamy Yellow <u>02</u> <u>04</u>). 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.</p> <p>01 = White 02 = Cream 03 = Buff 04 = Yellow 05 = Gold 06 = Green 07 = Orange 08 = Bronze 09 = Brown 10 = Gray 11 = Black 12 = Other (Specify) _____</p>	
<p>Color Chart Name _____</p> <p><u>Rind Color At Edible Maturity</u></p> <p>___ Primary Color Color Chart Value _____</p> <p>___ Mottling Color Color Chart Value _____</p> <p>___ Net Color Color Chart Value _____</p> <p>___ Furrow (Suture) Color Color Chart Value _____</p> <p><u>Rind Color At Full Maturity</u></p> <p>___ Primary Color Color Chart Value _____</p> <p>___ Mottling Color Color Chart Value _____</p> <p>___ Net Color Color Chart Value _____</p> <p>___ Furrow (Suture) Color Color Chart Value _____</p>	<p>Color Location Color Chart Value</p> <p><u>Rind Color At Edible Maturity</u></p> <p>___ Primary Color _____</p> <p>___ Mottling Color _____</p> <p>___ Net Color _____</p> <p>___ Furrow (Suture) Color _____</p> <p><u>Rind Color At Full Maturity</u></p> <p>___ Primary Color _____</p> <p>___ Mottling Color _____</p> <p>___ Net Color _____</p> <p>___ Furrow (Suture) Color _____</p>
Application Variety	Comparison Variety

**Application Variety**

**Comparison Variety**

**10. FLESH (At Edible Maturity):**

Colors: (Select two when necessary, i.e. Creamy Yellow 02 03)

01 = White    02 = Cream    03 = Yellow    04 = Green    05 = Orange    06 = Salmon    07 = Pink    08 = Other (Specify) \_\_\_\_\_

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

\_\_\_ \_\_\_ Color Near Cavity    Color Chart Value \_\_\_\_\_

\_\_\_ \_\_\_ Color in Center    Color Chart Value \_\_\_\_\_

\_\_\_ \_\_\_ Color Near Rind    Color Chart Value \_\_\_\_\_

\_\_\_ \_\_\_ Refractometer % Soluable Solids (Center of Flesh)

\_\_\_ Aroma:    1 = Absent    2 = Faint    3 = Strong

\_\_\_ Flavor:    1 = Mild    2 = Somewhat Spicy    3 = Very Spicy

Color    Location    Color Chart Value

\_\_\_ \_\_\_ Color Near Cavity    \_\_\_\_\_

\_\_\_ \_\_\_ Color in Center    \_\_\_\_\_

\_\_\_ \_\_\_ Color Near Rind    \_\_\_\_\_

\_\_\_ \_\_\_ Refractometer % Soluable Solids

\_\_\_ Aroma

\_\_\_ Flavor

**11. SEED CAVITY:**

\_\_\_ \_\_\_ mm Length

\_\_\_ \_\_\_ mm Width

\_\_\_ Shape in X-Section:    1 = Circular    2 = Triangular

\_\_\_ \_\_\_ mm Length

\_\_\_ \_\_\_ mm Width

\_\_\_ Shape in X-Section

**12. SEEDS:**

\_\_\_ \_\_\_ No. Seeds per Fruit

\_\_\_ \_\_\_ gm per 1,000 Seeds

\_\_\_ \_\_\_ No. Seeds per Fruit

\_\_\_ \_\_\_ gm per 1,000 Seeds

**13. DISEASE RESISTANCE:** State Genus, Species, and Races when known, under item 15.  
(0 = Not Tested, 1 = Susceptible, 2 = Resistant)

\_\_\_ Bacterial Wilt

\_\_\_ Root Rot

\_\_\_ Crown Blight

\_\_\_ Melon Rust

\_\_\_ Powdery Mildew

\_\_\_ Verticillum Wilt

\_\_\_ Sulphur Burn

\_\_\_ Scab

\_\_\_ Watermelon Mosaic

\_\_\_ Downy Mildew

\_\_\_ Fusarium Wilt

\_\_\_ Root Knot (Nematode)

\_\_\_ Anthracnose

\_\_\_ Cucumber Mosaic

\_\_\_ Squash Mosaic

\_\_\_ Other (specify) \_\_\_\_\_

\_\_\_ Bacterial Wilt

\_\_\_ Root Rot

\_\_\_ Crown Blight

\_\_\_ Melon Rust

\_\_\_ Powdery Mildew

\_\_\_ Verticillum Wilt

\_\_\_ Sulphur Burn

\_\_\_ Scab

\_\_\_ Watermelon Mosaic

\_\_\_ Downy Mildew

\_\_\_ Fusarium Wilt

\_\_\_ Root Knot (Nematode)

\_\_\_ Anthracnose

\_\_\_ Cucumber Mosaic

\_\_\_ Squash Mosaic

\_\_\_ Other \_\_\_\_\_

**Application Variety**

**Comparison Variety**

Application Variety	Comparison Variety
<p><b>14. INSECT RESISTANCE:</b> (0 = Not Tested, 1 = Susceptible, 2 = Resistant)</p> <p><input type="checkbox"/> Aphid</p> <p><input type="checkbox"/> Pickle Worm</p> <p><input type="checkbox"/> Darkling Ground Beetle</p> <p><input type="checkbox"/> Banded Cucumber Beetle</p> <p><input type="checkbox"/> Mite</p> <p><input type="checkbox"/> Western Spotted Cucumber Beetle</p> <p><input type="checkbox"/> Melon Leafhopper</p> <p><input type="checkbox"/> Melon Worm</p> <p><input type="checkbox"/> Western Striped Cucumber Beetle</p> <p><input type="checkbox"/> Melon Leafminer</p> <p><input type="checkbox"/> Other (Specify) _____</p>	<p><input type="checkbox"/> Aphid</p> <p><input type="checkbox"/> Pickle Worm</p> <p><input type="checkbox"/> Darkling Ground Beetle</p> <p><input type="checkbox"/> Banded Cucumber Beetle</p> <p><input type="checkbox"/> Mite</p> <p><input type="checkbox"/> Western Spotted Cucumber Beetle</p> <p><input type="checkbox"/> Melon Leafhopper</p> <p><input type="checkbox"/> Melon Worm</p> <p><input type="checkbox"/> Western Striped Cucumber Beetle</p> <p><input type="checkbox"/> Melon Leafminer</p> <p><input type="checkbox"/> Other (Specify) _____</p>

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