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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
Pepper (Capsicum spp.)**

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

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 Jan. 2003.)

Application Variety	Comparison Variety
1. SPECIES : Location and Dates of Test _____ ___ 1 = C. annuum 2 = C. frutescens 3 = C. baccatum 4 = C. chinense ___ 5 = Other (specify) _____	Comparison Variety Name _____ Comparison Variety Source _____ ___ Species (Specify if choice is 5 _____)
2. MATURITY (In Region of Best Adaptability) : ___ Days from transplanting until mature green stage ___ Days from transplanting until mature red or yellow stage ___ Days from direct seeding until mature green stage ___ Days from direct seeding until mature red or yellow stage	___ Days from transplanting until mature green stage ___ Days from transplanting until mature red or yellow stage ___ Days from direct seeding until mature green stage ___ Days from direct seeding until mature red or yellow stage
3. PLANT : ___ Plant Habit : 1=Compact 2=Semi-spreading 3=Spreading 4=Other _____ ___ Plant Attitude : 1=Erect 2=Semi-erect 3=Prostrate 4=Other _____ ___ . ___ cm Plant Height ___ . ___ cm Plant Width ___ . ___ cm Length of Stem from Cotyledons to First Flower ___ . ___ mm Length of Third Internode (from soil surface) ___ Basal Branches: 1=None 2=Few (2-3) 3=Many (more than 3) ___ Branch Flexibility: 1=Willowy (Cayenne Long Red) 2=Rigid (Yolo Wonder L) ___ Stem Strength (Breakage Resistance): 1=Weak 2=Intermediate 3=Strong	___ Plant Habit (specify if choice is 4 _____) ___ Plant Attitude (specify if choice is 4 _____) ___ . ___ cm Plant Height ___ . ___ cm Plant Width ___ . ___ cm Length of Stem Cotyledons to First Flower ___ . ___ mm Length of Third Internode (from soil surface) ___ Basal Branches ___ Branch Flexibility ___ Stem Strength (Breakage Resistance)
Application Variety	Comparison Variety

Application Variety	Comparison Variety
<p>4. LEAVES :</p> <p>___ . ___ mm Leaf Width</p> <p>___ . ___ mm Leaf Length</p> <p>___ . ___ mm Petiole Length</p> <p>___ Mature Leaf Shape: 1=Lanceolate 2=Elliptic</p> <p>___ Leaf Color: 1=Light Green 2=Medium Green 3=Dark Green 4= Purple</p> <p style="margin-left: 40px;">5=Other (specify) _____</p> <p style="margin-left: 40px;">Color Chart Name _____ Code _____</p> <p>___ Leaf and Stem Pubescence: 1=Absent (Yolo Wonder L) 2=Light</p> <p style="margin-left: 40px;">3=Moderate (Serrano) 4=Heavy (Chili Piquin)</p> <p>___ Margin Undulation: 1=Absent 2=V. Weak 3=Weak 4=Medium 5=Strong 6=V. Strong</p> <p>___ Blistering: 1=Absent 2=Very Weak 3=Weak 4=Medium 5=Strong 6=Very Strong</p>	<p>___ . ___ mm Leaf Width</p> <p>___ . ___ mm Leaf Length</p> <p>___ . ___ mm Petiole Length</p> <p>___ Mature Leaf Shape</p> <p>___ Leaf Color (Specify if choice is 5 _____)</p> <p style="margin-left: 40px;">Code _____</p> <p>___ Leaf and Stem Pubescence</p> <p>___ Margin Undulation</p> <p>___ Blistering</p>
<p>5. FLOWERS :</p> <p>___ Number of Flowers per Leaf Axil</p> <p>___ Number of Calyx Lobes</p> <p>___ Number of Petals</p> <p>___ . ___ mm Flower Diameter</p> <p>___ Corolla Color: 1=White 2=Purple 3=Other (Specify) _____</p> <p>___ Corolla Throat Markings: 1=Yellow (Tan) 2=Purple 3=Other (Specify) _____</p> <p>___ Anther Color: 1=Yellow 2=Purple 3=Other (Specify) _____</p> <p>___ Style Length: 1=Less Than Stamen 2=Same as Stamen 3=Exceeds Stamen</p> <p>___ Self-Incompatibility: 1=Absent 2=Present</p>	<p>___ Number of Flowers per Leaf Axil</p> <p>___ Number of Calyx Lobes</p> <p>___ Number of Petals</p> <p>___ . ___ mm Flower Diameter</p> <p>___ Corolla Color (Specify if choice is 3 _____)</p> <p>___ Corolla Throat Markings (Specify if choice is 3 _____)</p> <p>___ Anther Color (Specify if choice is 3 _____)</p> <p>___ Style Length</p> <p>___ Self Incompatibility</p>
<p>6. FRUIT :</p> <p>___ Group: 1=Bell (Yolo Wonder L) 8=Small Hot (Serrano)</p> <p style="margin-left: 20px;">2=Pimiento (Pimiento Perfection) 9=Cherry (Sweet Cherry)</p> <p style="margin-left: 20px;">3=Ancho (Mexican Chili) 10=Short Wax (Floral Gem)</p> <p style="margin-left: 20px;">4=Anaheim Chili (Sandia) 11=Long Wax (Sweet Banana)</p> <p style="margin-left: 20px;">5=Cayenne (Cayenne Long Red) 12=Tabasco (Tabasco)</p> <p style="margin-left: 20px;">6=Cuban (Cubanelle) 13=Habanero (Scotch Bonnet)</p> <p style="margin-left: 20px;">7=Jalapeno (Jalapeno) 14=Other _____</p> <p>___ Immature Fruit Color: 1=Light Green (Cubanelle) 5=Yellow (Yellow Belle)</p> <p style="margin-left: 20px;">2=Medium Green (Long Thin Cayenne) 6=Purple (Violetta)</p> <p style="margin-left: 20px;">3=Dark Green (Yolo Wonder L) 7=Ivory (Twiggy)</p> <p style="margin-left: 20px;">4=Very Dark Green (Ancho Chili) 8=Other _____</p> <p style="margin-left: 40px;">Color Chart Name _____ Code _____</p> <p>___ Mature Fruit Color: 1=Red (Yolo Wonder L) 5=Ivory</p> <p style="margin-left: 20px;">2=Orange 6=Green (Permagreen)</p> <p style="margin-left: 20px;">3=Orange-Yellow (Golden Calwonder) 7=Salmon</p> <p style="margin-left: 20px;">4=Brown (Mulatto) 8=Lemon Yellow</p> <p style="margin-left: 20px;">9=Other _____</p> <p style="margin-left: 40px;">Color Chart Name _____ Code _____</p> <p>___ Pungency: 1=Sweet (Yolo Wonder L) 2=Hot (Jalapeno)</p> <p>___ . ___ . ___ mg Capsaicin per gram dry fruit</p> <p>___ . ___ . ___ Scoville Units (dry fruit)</p> <p>___ Flavor: 1=Mild Pepper Flavor 2=Moderate Pepper Flavor</p> <p style="margin-left: 20px;">3=Strong Pepper Flavor 4=Other _____</p> <p>___ Fruit Glossiness: 1=Dull 2=Moderate 3=Shiny</p> <p>___ Surface Smoothness: 1=Smooth (Yolo Wonder L) 2=Rough (Long Thin Cayenne)</p> <p>___ Fruit Position: 1=Upright (Santaka) 2=Horizontal 3=Pendent (Jalapeno)</p> <p>___ Calyx Shape: 1=Cup-shaped (Enveloping Fruit Base) 2=Saucer-shaped (Flat, Non-Enveloping)</p>	<p>___ Fruit Group (Specify if choice is 14 _____)</p> <p>___ Immature Fruit Color (Specify if choice is 8 _____)</p> <p style="margin-left: 40px;">Code _____</p> <p>___ Mature Fruit Color (Specify if choice is 9 _____)</p> <p style="margin-left: 40px;">Code _____</p> <p>___ Pungency</p> <p>___ . ___ . ___ mg Capsaicin per gram dry fruit</p> <p>___ . ___ . ___ Scoville Units (dry fruit)</p> <p>___ Flavor (Specify if choice is 4 _____)</p> <p>___ Fruit Glossiness</p> <p>___ Surface Smoothness</p> <p>___ Fruit Position</p> <p>___ Calyx Shape</p>
 <p>Saucer-shape</p>	 <p>Cupped</p>
Application Variety Data	Comparison Variety Data

Application Variety Data	Comparison Variety Data	
<p>7. SEED :</p> <p>___ ___ mm Seed Cavity Length</p> <p>___ ___ mm Seed Cavity Diameter</p> <p>___ ___ mm Placenta Length</p> <p>___ ___ Number of Seeds per Fruit</p> <p>___ ___ gm per 1000 Seeds</p> <p>___ Seed Color: 1=Yellow 2=Purple</p>	<p>___ ___ mm Seed Cavity Length</p> <p>___ ___ mm Seed Cavity Diameter</p> <p>___ ___ mm Placenta Length</p> <p>___ ___ Number of Seeds per Fruit</p> <p>___ ___ gm per 1000 Seeds</p> <p>___ Seed Color</p>	
<p>8. ANTHOCYANIN (1 = Absent; 2 = Weak; 3 = Moderate; 4 = Strong) :</p> <p>___ Seedling Hypocotyl</p> <p>___ Stem</p> <p>___ Node</p> <p>___ Leaf</p> <p>___ Pedicel</p> <p>___ Calyx</p> <p>___ Fruit</p>	<p>___ Hypocotyl</p> <p>___ Stem</p> <p>___ Node</p> <p>___ Leaf</p> <p>___ Pedicel</p> <p>___ Calyx</p> <p>___ Fruit</p>	
<p>9. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; indicate Race or Strain, when known) :</p> <p>A. Viruses:</p> <p>___ Cucumber Mosaic Virus</p> <p>___ Curly Top Virus</p> <p>___ Pepper Mottle Virus</p> <p>___ Potato Y Virus</p> <p>___ Tobacco Etch Virus</p> <p>___ Tobacco Mosaic Virus</p> <p>B. Other Diseases and Insects:</p> <p>___ Anthracnose (<i>Gloeosporium piperatum</i>)</p> <p>___ Bacterial Spot (<i>Xanthomonas vesicatoria</i>)</p> <p>___ Cercospora Leaf Spot (<i>Cercospora capsici</i>)</p> <p>___ Nematode (<i>Meloidogyne incognita acrita</i>)</p> <p>___ Phytophthora Root Rot (<i>Phytophthora capsici</i>)</p> <p>___ Ripe Rot (<i>Vermicularia capsici</i>)</p> <p>___ Southern Blight (<i>Sclerotium rolfsii</i>)</p> <p>___ Verticillium Wilt (<i>Verticillium dahliae</i>)</p> <p>___ Other (Specify) _____.</p>		<p>___ Cucumber Mosaic Virus</p> <p>___ Curly Top Virus</p> <p>___ Pepper Mottle Virus</p> <p>___ Potato Y Virus</p> <p>___ Tobacco Etch Virus</p> <p>___ Tobacco Mosaic Virus</p> <p>___ Anthracnose</p> <p>___ Bacterial Spot</p> <p>___ Cercospora Leaf Spot</p> <p>___ Nematode</p> <p>___ Phytophthora Root Rot</p> <p>___ Ripe Rot</p> <p>___ Southern Blight</p> <p>___ Verticillium Wilt</p> <p>___ Other (Specify) _____.</p>
<p>10. COMMENTS (eg. maturity comparisons with other varieties, source of comparison variety seed, etc. Continue in Exhibit D):</p>		