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

# OBJECTIVE DESCRIPTION OF VARIETY

**Pepper (Capsicum spp.)**

<table>
<thead>
<tr>
<th>NAME OF APPLICANT (S)</th>
<th>TEMPORARY OR EXPERIMENTAL DESIGNATION</th>
<th>VARIETY NAME</th>
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<thead>
<tr>
<th>ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country)</th>
<th>FOR OFFICIAL USE ONLY</th>
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<tbody>
<tr>
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<td>PVPO NUMBER</td>
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1. **SPECIES**
   - Location and Dates of Test
   - 1 = *C. annuum*  
   - 2 = *C. frutescens*  
   - 3 = *C. baccatum*  
   - 4 = *C. chinense*  
   - 5 = Other (specify)

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

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 = Willow (Cayenne Long Red)  
     - 2 = Rigid (Yolo Wonder L)
   - Stem Strength (Breakage Resistance):
     - 1 = Weak  
     - 2 = Intermediate  
     - 3 = Strong
4. LEAVES:

- mm Leaf Width
- mm Leaf Length
- mm Petiole Length

Mature Leaf Shape:
1=Lanceolate 2=Elliptic

Leaf Color:
1=Light Green 2=Medium Green 3=Dark Green 4=Purple 5=Other (specify)

Leaf and Stem Pubescence:
1=Absent (Yolo Wonder L) 2=Light 3=Moderate (Serrano) 4=Heavy (Chili Piquin)

Margin Undulation:
1=Absent 2=V. Weak 3=Weak 4=Medium 5=Strong 6=V. Strong

Blistering:
1=Absent 2=Very Weak 3=Weak 4=Medium 5=Strong 6=Very Strong

5. FLOWERS:

- Number of Flowers per Leaf Axil
- Number of Calyx Lobes
- Number of Petals

- mm Flower Diameter

Corolla Color:
1=White 2=Purple 3=Other (Specify)

Corolla Throat Markings:
1=Yellow (Tan) 2=Purple 3=Other (Specify)

Anther Color:
1=Yellow 2=Purple 3=Other (Specify)

Style Length:
1=Less Than Stamen 2=Same as Stamen 3=Exceeds Stamen

Self-Incompatibility:
1=Absent 2=Present

6. FRUIT:

- Group:
  1=Bell (Yolo Wonder L) 8=Small Hot (Serrano)
  2=Pimento (Pimento Perfection) 9=Cherry (Sweet Cherry)
  3=Ancho (Mexican Chili) 10=Short Wax (Floral Gem)
  4=Anaheim Chili (Sandia) 11=Long Wax (Sweet Banana)
  5=Cayenne (Cayenne Long Red) 12=Tabasco (Tabasco)
  6=Cuban (Cubanelle) 13=Habanero (Scotch Bonnet)
  7=Jalapeno (Jalapeno) 14=Other

Immature Fruit Color:
1=Light Green (Cubanelle) 5=Yellow (Yellow Belle)
2=Medium Green (Long Thin Cayenne) 6=Purple (Violetta)
3=Dark Green (Yolo Wonder L) 7=Ivory (Twiggy)
4=Very Dark Green (Ancho Chili) 8=Other

Mature Fruit Color:
1=Red (Yolo Wonder L) 5=Ivory
2=Orange 6=Green (Permagreen)
3=Orange-Yellow (Golden Calwonder) 7=Salmon
4=Brown (Mulatto) 8=Lemon Yellow
9=Other

Color Chart Name Code

Pungency:
1=Sweet (Yolo Wonder L) 2=Hot (Jalapeno)

- mg Capsaicin per gram dry fruit

- Scoville Units (dry fruit)

Flavor:
1=Mild Pepper Flavor 2=Moderate Pepper Flavor
3=Strong Pepper Flavor 4=Other

Fruit Glossiness:
1=Dull 2= Moderate 3=Shiny

Surface Smoothness:
1=Smooth (Yolo Wonder L) 2=Rough (Long Thin Cayenne)

Fruit Position:
1=Upright (Santaka) 2=Horizontal 3=Pendent (Jalapeno)

Calyx Shape:
1=Cup-shaped (Enveloping Fruit Base) 2=Saucer-shaped (Flat, Non-Enveloping)

Saucer-shape  Cupped
6. FRUIT (continued):

-  __  __  __  __ mm Calyx Diameter
-  __  __  __  __ mm Fruit Length
-  __  __  __  __ mm Fruit Diameter at Calyx Attachment
-  __  __  __  __ mm Fruit Diameter at Mid-point
-  __  __  __  __ mm Flesh Thickness at Mid-point
-  __  __  __  __ Average Number of Fruits per Plant
-  __  __ % Large Fruits (Weight Range: ____________ to ____________)
-  __  __ % Medium Fruits (Weight Range: ____________ to ____________)
-  __  __ % Small Fruits (Weight Range: ____________ to ____________)
-  __  __  __  __ gm Average Fruit Weight

-  __       __ Fruit Base Shape: 1=Cupped (Yolo Wonder L) 2=Rounded (Jalapeno)
-  __       __ Fruit Apex Shape: 1=Pointed (Long Thin Cayenne) 2=Blunt (Yolo Wonder L)
-  __       __ Fruit Shape: 1=Bell (Yolo Wonder L) 2=Conical (Pimiento) 3=Elongate (Long Thin Cayenne) 4=Oblong (Jalapeno) 5=Oblate (Sunnybrook) 6=Globe (Red Cherry)
-  __       __ Fruit Shape (Longitudinal Section, see attached pictures): 1=Flattened 2=Round 3=Heart-shaped 4=Square 5=Rectangular 6=Trapezoid 7=Narrow Triangular 8=Triangular

-  __       __ Fruit Shape (Cross Section, at Level of Placenta): 1=Elliptic 2=Triangular 3=Quadrangular 4=Circular
-  __       __ Fruit Set: 1=Scattered 2=Concentrated
-  __       __ Interloculary Grooves: 1=Absent 2=Very Shallow 3=Shallow 4=Medium 5=Deep 6=Very Deep
-  __       __ % Fruits with one locule
-  __       __ % Fruits with two locules
-  __       __ % Fruits with three locules
-  __       __ % Fruits with four locules
-  __       __ % Fruits with five or more locules
-  __       __ Average Number of Locules
-  __  __  __  __ mm Pedicel Length
-  __  __  __  __ mm Pedicel Thickness
-  __       __ Pedicel Shape: 1=Straight 2=Curved
-  __       __ Pedicel Cavity: 1=Absent 2=Present
-  __  __  __  __ mm Depth of Pedicel Cavity
7. SEED:
   ___ ___ mm Seed Cavity Length
   ___ ___ mm Seed Cavity Diameter
   ___ ___ mm Placenta Length
   ___ ___ Number of Seeds per Fruit
   ___ ___ gm per 1000 Seeds
   Seed Color: 1=Yellow  2=Purple

8. ANTHOCYANIN (1 = Absent; 2 = Weak; 3 = Moderate; 4 = Strong):
   ___ Seedling Hypocotyl
   ___ Stem
   ___ Node
   ___ Leaf
   ___ Pedicel
   ___ Calyx
   ___ Fruit

A. Viruses (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; and indicate Race or Strain when known):
   ___ Cucumber Mosaic Virus
   ___ Curly Top Virus
   ___ Pepper Mottle Virus
   ___ Potato Y Virus
   ___ Tobacco Etch Virus
   ___ Tobacco Mosaic Virus

B. Other Diseases and Insects (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; and indicate Race or Strain when known):
   ___ Anthracnose (Gloeosporium piperatum)
   ___ Bacterial Spot (Xanthomonas vesicatoria)
   ___ Cercospora Leaf Spot (Cercospora capsici)
   ___ Nematode (Meloidogyne incognita acrita)
   ___ Phytophthora Root Rot (Phytophthora capsici)
   ___ Ripe Rot (Vermicularia capsici)
   ___ Southern Blight (Sclerotium rolfsii)
   ___ Verticillium Wilt (Verticillium dahliae)
   ___ Other (Specify) ________________________________