# Fort Lauderdale Trial Garden—Year 5 (2006–07)

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Rooted cuttings of vegetatively propagated annuals from Danziger "Dan" Flower Farm were planted on 21 Aug. 2006 while rooted cuttings from Euro American Propagators (Proven Winners) were planted on 3 Nov. 2006. All cultivars were planted as three groups of six plants that were randomly placed in the garden. During the first week of each month, evaluations were conducted to measure and record plant height and width (size), flower number, and quality rating. Quality was rated on a scale of 1 to 5 with 5 = excellent and 1 = poor. One consumer preference survey was conducted on 22 Mar. 2007.

The trial garden at the University of Florida Fort Lauderdale Research and Education Center has been used to evaluate vegetatively propagated annual bedding plant cultivars since Fall 2002 (Moore and Fisher, 2005, 2006; Moore et al., 2003, 2004). The trial garden was established to assist bedding plant companies with unbiased evaluations of cultivar performance in southern Florida. The winter climate in this area is ideal for many annual bedding plants. The companies hope to expand availability of different and new types of annuals for winter color in south Florida based on performance and consumer preference ratings generated at the trial garden.

#### **Materials and Methods**

Transplant Production. Rooted liners of cultivars from Danziger "Dan" Flower Farm (Beit Dagan, Israel) (Table 1) and from Euro American Propagators (Proven Winners) (Bonsall, CA) (Table 2) were transplanted into 400-mL round pots filled with a peat-based growing medium (Pro-mix "BX," Premier Horticulture, Red Hill, PA). After transplanting, plants were placed in an open-sided greenhouse exposed to ambient air temperatures fluctuating around of 30 °C day/21°C night. Danziger cultivars were placed in the greenhouse in July 2006 and Euro American cultivars were placed in the greenhouse in Oct. 2006. Plants were watered daily and fertilized at planting with 5 g of a 15N–4.05P–9.96K controlled-release fertilizer (CRF) (Osmocote, The Scotts Co., Marysville, OH).

FIELD EVALUATION. The 100 ft  $\times$  100 ft garden has a Margate fine sand soil with 1.6% organic matter, a pH of 6.74 pH, a soluble salt level of 0.30 mS·cm<sup>-1</sup>, a nitrate-nitrogen concentration of 9.0 mg·kg<sup>-1</sup>, an ammonical-nitrogen concentration of 5.0 mg·kg<sup>-1</sup>, a phosphorus concentration of 27.0 mg·kg<sup>-1</sup>, and a potassium concentration of 3.7 mg·kg<sup>-1</sup> (samples collected from top 6 inches of soil). Samples were analyzed by the University of Florida's soil testing laboratory. A 3-inch composted yard trimming mulch layer was spread over the garden to help control weeds.

Plants from Danziger were planted into the garden on 21 Aug. 2006 while plants from Euro American were planted into the garden on 3 Nov. 2006. Eighteen plants of each cultivar were planted in the garden as three randomly placed groups of six plants per cultivar. The six plants in the group were planted on 15.24-cm (6 inch) centers and occupied an area of 91.44 cm × 91.44 cm (36 × 36 inch²). All cultivars were planted under 30% shade. At planting, each plant received 5 g of the CRF listed above in the hole prior to placing the plant in the ground. The first month after each planting, new plants were watered overhead three times a week for 30 min, applying an average 2.25 inches of water. Irrigation frequency was then reduced to twice a week for 30 min for the remainder of the trial.

**D**ATA COLLECTION. Monthly mean air and soil temperature, solar radiation, and rainfall were collected using the Florida Automated Weather Network (FAWN) system (Table 3). During the first week of every month of the trial, plant height, plant width, flower number, and quality were recorded for each individual plant in the garden. Plant quality was based on the appearance of the group of six plants (three replications of six plants for each cultivar) and took into account the number of plants in flower in a group as well as uniformity in growth and appearance. Plant quality was based on a scale of 0 to 5 with 5 = top performance; 4 = strong display of color and good growth habit; 3 = plants of interest; 2 = plants are green and growing; 1 = poor performance; and 0 = dead.

One consumer preference survey also was conducted in which participants were asked to check all of the cultivars that they liked. These data were ranked using PROC RANK (SAS Systems, SAS Institute, Cary, NC) with plants being chosen more often getting a higher rank than plants that were chosen less often. The survey was conducted on 22 Mar. 2007. Data were then analyzed using analysis of variance (SAS Systems).

#### Results and Discussion

All cultivars planted in the garden in 2006–07 did grow and show an increase in plant height, width, and flower number. This data is available on the Fort Lauderdale Trial Garden website (http://flrec.ifas.ufl.edu/trial\_garden/index.shtml).

The highest plant quality for Harmony new guinea impatiens and Musica double impatiens from Danziger occurred 103 to 135

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Table 1. Plant quality rating (0 = dead; 1 = poor performance; and 5 = top performance) of Danziger "Dan" Flower Farms cultivars planted on 21 Aug. 2006. Data were collected 75, 103, 135, 159, and 195 d after planting (DAP).

|                              | Quality     |             |             |             |             |  |  |  |
|------------------------------|-------------|-------------|-------------|-------------|-------------|--|--|--|
|                              | 75 DAP      | 103 DAP     | 135 DAP     | 159 DAP     | 195 DAP     |  |  |  |
| Cultivar                     | (Nov. 2006) | (Dec. 2006) | (Jan. 2007) | (Mar. 2007) | (Apr. 2007) |  |  |  |
| New Guinea Impatiens Harmony |             |             |             |             |             |  |  |  |
| Apricot Cream                | 3.0         | 3.7         | 3.2         | 2.8         | 2.3         |  |  |  |
| Candy Cream                  | 3.3         | 3.8         | 3.7         | 3.5         | 2.7         |  |  |  |
| Dark Pink                    | 3.3         | 4.3         | 4.0         | 3.5         | 2.2         |  |  |  |
| Deep Red                     | 3.7         | 4.0         | 3.5         | 3.5         | 2.3         |  |  |  |
| Magenta                      | 3.0         | 2.7         | 2.7         | 2.3         | 2.2         |  |  |  |
| Raspberry Cream              | 3.0         | 3.7         | 4.0         | 3.7         | 2.5         |  |  |  |
| Osteospermum                 |             |             |             |             |             |  |  |  |
| Purple Eye                   | 2.8         | 2.0         | 2.7         | 3.3         | 2.5         |  |  |  |
| Jamesbrittenia Britney       |             |             |             |             |             |  |  |  |
| Deep Pink                    | 3.5         | 3.0         | 2.8         | 2.0         | 2.5         |  |  |  |
| Maroon                       | 3.2         | 3.8         | 3.5         | 2.0         | 2.5         |  |  |  |
| Orange                       | 3.7         | 4.7         | 3.0         | 1.7         | 1.7         |  |  |  |
| Purple                       | 3.5         | 4.2         | 3.0         | 2.3         | 1.7         |  |  |  |
| Calitunia Purple             | 2.5         | 4.5         | 3.2         | 2.3         | 1.0         |  |  |  |
| Snapdragon                   |             |             |             |             |             |  |  |  |
| Impr Bicolor Pink            | 2.7         | 4.8         | 4.0         | 3.3         | 2.5         |  |  |  |
| Double Impatiens Musica      |             |             |             |             |             |  |  |  |
| Bicolor Pink                 | 3.2         | 4.7         | 4.3         | 2.8         | 2.5         |  |  |  |
| Cherry Red                   | 2.5         | 4.5         | 3.8         | 2.5         | 2.3         |  |  |  |
| Pink Aroma                   | 4.7         | 4.8         | 4.7         | 2.7         | 2.0         |  |  |  |
| Pink Energy                  | 4.2         | 4.8         | 5.0         | 2.7         | 2.7         |  |  |  |
| Spicy Orange                 | 4.2         | 4.5         | 4.7         | 2.7         | 3.0         |  |  |  |
| Spicy Red                    | 3.3         | 5.0         | 3.7         | 2.5         | 2.2         |  |  |  |
| White                        | 2.8         | 4.5         | 3.8         | 2.5         | 2.0         |  |  |  |
| <i>P</i> > F                 |             |             |             |             |             |  |  |  |
| Replicate                    | 0.1429      | 0.1801      | 0.1093      | 0.3276      | 0.7912      |  |  |  |
| Cultivars                    | 0.0093      | 0.0001      | 0.0008      | 0.0038      | 0.0077      |  |  |  |

Table 2. Plant quality rating (0 = dead; 1 = poor performance; and 5 = top performance) of Euro American (Proven Winners) cultivars planted on 3 Nov. 2006. Data were collected 31, 63, 89, and 125 d after planting (DAP).

|                             | Quality     |             |             |             |  |  |
|-----------------------------|-------------|-------------|-------------|-------------|--|--|
|                             | 31 DAP      | 63 DAP      | 89 DAP      | 125 DAP     |  |  |
| Cultivar                    | (Dec. 2006) | (Jan. 2007) | (Mar. 2007) | (Apr. 2007) |  |  |
| Angelonia                   |             |             |             |             |  |  |
| Angel Face Blue             | 4.0         | 3.0         | 3.0         | 1.0         |  |  |
| Angel Face Blue Bicolor     | 4.0         | 3.0         | 3.0         | 1.0         |  |  |
| Angel Face White            | 4.0         | 3.0         | 3.5         | 1.5         |  |  |
| Dresden Blue                | 3.0         | 3.0         | 2.0         | 1.0         |  |  |
| Pink                        | 3.0         | 3.0         | 2.5         | 2.0         |  |  |
| Arctotis                    |             |             |             |             |  |  |
| Bumble Bee                  | 4.0         | 3.0         | 4.0         | 2.0         |  |  |
| Peachy Mango                | 4.0         | 3.0         | 3.0         | 2.5         |  |  |
| Pink Sugar                  | 4.0         | 3.0         | 4.0         | 3.0         |  |  |
| Pumpkin Pie                 | 4.0         | 2.0         | 4.0         | 3.0         |  |  |
| Sashe                       | 3.0         | 2.0         | 3.5         | 2.0         |  |  |
| Sun Spot                    | 4.0         | 2.0         | 3.5         | 3.0         |  |  |
| Bidens Solaire              | 3.0         | 2.0         | 2.0         | 2.0         |  |  |
| Calibrachoa                 |             |             |             |             |  |  |
| Million Bells Cherry Pink   | 3.0         | 1.0         | 0.0         | 0.0         |  |  |
| Million Bells Craklin Fire  | 2.5         | 2.0         | 1.0         | 2.0         |  |  |
| Million Bells Lavender      | 3.0         | 3.0         | 2.5         | 2.0         |  |  |
| Million Bells Terra Cotta   | 4.0         | 4.5         | 3.5         | 2.0         |  |  |
| Million Bells Trailing Blue | 3.0         | 3.0         | 2.0         | 1.0         |  |  |
| Million Bells Trailing Pink | 3.0         | 3.0         | 1.0         | 1.0         |  |  |
| Million Bells Yellow        | 4.0         | 4.5         | 3.0         | 1.5         |  |  |
| Superbells Blue             | 3.0         | 3.0         | 3.5         | 2.0         |  |  |
| Superbells Cherry Red       | 3.0         | 3.0         | 3.5         | 3.0         |  |  |
| Superbells Coral            | 3.0         | 3.0         | 3.5         | 2.0         |  |  |

Table 2. Continued on next page.

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|                                | Quality               |                       |                       |                        |  |
|--------------------------------|-----------------------|-----------------------|-----------------------|------------------------|--|
| Cultivar                       | 31 DAP<br>(Dec. 2006) | 63 DAP<br>(Jan. 2007) | 89 DAP<br>(Mar. 2007) | 125 DAP<br>(Apr. 2007) |  |
| Superbells Peach               | 3.0                   | 3.0                   | 4.0                   | 1.0                    |  |
| Superbells Pink                | 3.0                   | 3.0                   | 3.5                   | 3.0                    |  |
| Superbells Pink Kiss           | 3.0                   | 3.0                   | 3.5                   | 2.0                    |  |
| Superbells Plum                | 3.0                   | 3.0                   | 3.0                   | 3.0                    |  |
| Superbells Red                 | 3.0                   | 3.0                   | 3.5                   | 3.0                    |  |
| Superbells Tequila Sunrise     | 2.0                   | 3.0                   | 3.5                   | 3.0                    |  |
| Superbells Trailing Blue       | 3.0                   | 3.0                   | 3.5                   | 2.0                    |  |
| Superbells Trailing Light Blue | 3.0                   | 3.0                   | 3.5                   | 3.0                    |  |
| Superbells Trailing Plum       | 3.0                   | 3.0                   | 3.5                   | 2.0                    |  |
| Superbells Trailing Rose       | 3.0                   | 3.0                   | 3.5                   | 2.0                    |  |
| Superbells White               | 3.0                   | 3.0                   | 3.5                   | 3.0                    |  |
| Chrysocephalum Flambe          |                       |                       |                       |                        |  |
| Orange                         | 3.0                   | 3.0                   | 4.0                   | 3.0                    |  |
| Yellow                         | 4.0                   | 4.5                   | 4.0                   | 3.0                    |  |
| Cuphea Flamenco                |                       |                       |                       |                        |  |
| Rumba                          | 4.0                   | 3.0                   | 3.0                   | 1.5                    |  |
| Samba                          | 4.5                   | 4.5                   | 3.5                   | 1.5                    |  |
| Tango                          | 4.5                   | 3.0                   | 3.0                   | 1.0                    |  |
| Diascia Flying Colors          |                       |                       |                       |                        |  |
| Trailing Antique Rose          | 4.0                   | 4.0                   | 3.5                   | 2.0                    |  |
| Coral                          | 4.5                   | 3.0                   | 4.0                   | 2.0                    |  |
| Red                            | 5.0                   | 3.0                   | 4.0                   | 2.0                    |  |
| Euphorbia Diamond Frost        | 4.0                   | 5.0                   | 4.0                   | 3.5                    |  |
| Gypsophila Festival Star       | 4.5                   | 4.0                   | 4.0                   | 2.5                    |  |
|                                | 4.3                   | 4.0                   | 4.0                   | 2.3                    |  |
| Heuchera                       | 4.0                   | 2.0                   | 4.0                   | 2.0                    |  |
| Crème Brule<br>Crème de Mint   | 4.0<br>4.0            | 3.0<br>4.0            | 4.0<br>4.0            | 2.0<br>3.0             |  |
|                                | 3.0                   | 3.0                   | 2.5                   | 2.0                    |  |
| Key Lime Pie<br>Licorice       | 3.0                   | 3.0                   | 4.0                   | 3.0                    |  |
| Mocha Mint                     | 4.0                   | 3.0<br>4.0            | 3.0                   |                        |  |
| Peach Melba                    | 4.0                   |                       | 3.0                   | 2.0<br>2.0             |  |
|                                |                       | 3.0                   |                       |                        |  |
| Mecardonia Gold Flake          | 4.0                   | 3.0                   | 4.0                   | 3.0                    |  |
| Vemesia                        | 4.5                   | 4.5                   | 2.0                   | 1.0                    |  |
| Blue Bird                      | 4.5                   | 4.5                   | 3.0                   | 1.0                    |  |
| Compact Innocence              | 4.5                   | 4.5                   | 3.0                   | 1.0                    |  |
| Opal Innocence                 | 4.5                   | 4.5                   | 2.0                   | 1.0                    |  |
| Refined Innocence              | 4.5                   | 3.0                   | 3.0                   | 1.0                    |  |
| Safari Plana                   | 4.5                   | 4.5                   | 3.0                   | 1.0                    |  |
| Safari Plum                    | 4.5                   | 4.5                   | 3.0                   | 2.0                    |  |
| Safari Violet Rose             | 4.5                   | 4.5                   | 3.5                   | 2.0                    |  |
| Safari White                   | 3.5                   | 4.0                   | 3.5                   | 2.0                    |  |
| Sunsatia Mango                 | 3.5                   | 4.0                   | 3.0                   | 2.0                    |  |
| Sunsatia Peach                 | 4.0                   | 3.0                   | 3.0<br>3.0            | 1.0<br>1.0             |  |
| Sunsatia Raspberry             | 4.0                   | 4.0                   | 5.0                   | 1.0                    |  |
| Osteospermum                   | 2.0                   | 0.0                   | 0.0                   | 0.0                    |  |
| Lemon Symphony                 | 2.0                   | 0.0                   | 0.0                   | 0.0                    |  |
| Soprano Lilac Spoon            | 3.0                   | 4.0                   | 3.5                   | 2.0                    |  |
| Orange Symphony                | 2.5                   | 0.0                   | 0.0                   | 0.0                    |  |
| Soprano Light Purple           | 3.0                   | 1.0                   | 0.0                   | 0.0                    |  |
| Soprano Purple                 | 3.0                   | 4.0                   | 3.5                   | 2.0                    |  |
| Oxalis                         |                       | 4.0                   | 4.0                   | 2.0                    |  |
| Charmed Jade                   | 4.5                   | 4.0                   | 4.0                   | 2.0                    |  |
| Charmed Velvet                 | 4.5                   | 4.0                   | 3.0                   | 2.0                    |  |
| Charmed Wine                   | 4.5                   | 4.0                   | 3.0                   | 2.0                    |  |
| Phlox                          |                       |                       |                       |                        |  |
| Intensia Cabernet              | 4.5                   | 4.5                   | 3.5                   | 3.0                    |  |
| Intensia Lavender Glow         | 4.5                   | 4.5                   | 3.5                   | 3.0                    |  |
| Intensia Lilac Rose            | 4.5                   | 4.5                   | 3.5                   | 3.0                    |  |
| Intensia Neon Pink             | 4.5                   | 4.5                   | 4.0                   | 3.0                    |  |
| Intensia White                 | 4.5                   | 4.5                   | 4.0                   | 3.0                    |  |

Table 2. Continued on next page.

Table 2. Continued from previous page.

|                           | Quality     |             |             |             |  |
|---------------------------|-------------|-------------|-------------|-------------|--|
|                           | 31 DAP      | 63 DAP      | 89 DAP      | 125 DAP     |  |
| Cultivar                  | (Dec. 2006) | (Jan. 2007) | (Mar. 2007) | (Apr. 2007) |  |
| Salvia Golden Delicious   | 4.0         | 4.0         | 4.0         | 2.0         |  |
| Stachys                   |             |             |             |             |  |
| Royal Cloak               | 4.5         | 4.0         | 4.0         | 2.0         |  |
| Sentimental Journey       | 4.5         | 4.0         | 4.0         | 2.0         |  |
| Sutera                    |             |             |             |             |  |
| Cabana Blue               | 4.5         | 4.0         | 3.0         | 2.0         |  |
| Cabana                    | 4.5         | 4.0         | 3.0         | 2.0         |  |
| Snowstorm Giant Snowflake | 4.5         | 4.0         | 3.0         | 2.0         |  |
| Snowstorm White           | 4.5         | 4.0         | 3.0         | 2.0         |  |
| Torenia                   |             |             |             |             |  |
| Catalina Midnight Blue    | 5.0         | 4.0         | 2.5         | 2.0         |  |
| Catalina Pink             | 4.5         | 4.0         | 3.0         | 2.0         |  |
| Verbena (Superbena)       |             |             |             |             |  |
| Burgundy                  | 4.0         | 4.0         | 3.0         | 2.0         |  |
| Coral                     | 3.0         | 4.0         | 2.0         | 1.5         |  |
| Coral Red                 | 4.0         | 4.0         | 3.0         | 2.0         |  |
| Dark Blue                 | 4.0         | 4.0         | 2.5         | 2.0         |  |
| Large Lilac Blue          | 4.0         | 4.0         | 3.0         | 2.0         |  |
| Pink Shades               | 4.0         | 4.0         | 3.0         | 2.0         |  |
| Purple                    | 4.0         | 4.0         | 3.0         | 2.0         |  |
| P > F                     |             |             |             |             |  |
| Replicate                 | 0.1289      | 0.5648      | 0.5623      | 0.9745      |  |
| Cultivars                 | 0.0002      | 0.0001      | 0.0001      | 0.0079      |  |

Table 3. Average mean air and soil temperature, relative humidity, solar radiation, and rainfall measured at the University of Florida's Fort Lauderdale Research and Education Center during Winter 2006–07. The Florida Automated Weather Network (FAWN) collected the weather data.

| Month/year | Avg mean<br>air temp<br>(°C) | Avg mean<br>soil temp<br>(°C) | Relative<br>humidity<br>(%) | Avg mean<br>solar radiation<br>(W·m <sup>-2</sup> ) | Monthly rainfall (inches) |
|------------|------------------------------|-------------------------------|-----------------------------|---|---------------------------|
| Sept. 2006 | 26.90                        | 27.18                         | 77                          | 190   | 13.65                     |
| Oct. 2006  | 25.48                        | 26.40                         | 70                          | 197   | 2.63                      |
| Nov. 2006  | 21.71                        | 22.88                         | 72                          | 138   | 2.08                      |
| Dec. 2006  | 22.78                        | 22.86                         | 75                          | 117   | 5.06                      |
| Jan. 2007  | 21.46                        | 22.32                         | 73                          | 142   | 1.20                      |
| Feb. 2007  | 19.62                        | 20.74                         | 73                          | 166   | 2.20                      |
| Mar. 2007  | 22.13                        | 22.75                         | 67                          | 211   | 1.76                      |
| Apr. 2007  | 22.48                        | 24.12                         | 65                          | 254   | 0.59                      |

d after planting (DAP), while the highest quality osteospermum from Danziger occurred 159 DAP (Table 1). The highest quality for Jamesbrittenia, calitunia, and snapdragons occurred 103 DAP. Plant quality started to decline after 159 DAP. In the 2005–06 trial garden, the Danziger Musica, Harmony, and Jamesbrittenia cultivars had quality ratings of 3 or better 86 DAP and showing decline 171 DAP (Moore and Fisher, 2006). Plant quality started to decline in Apr. 2006 similar to plant decline in Apr. 2007. Solar radiation levels and temperatures increase in March and April while relative humidity is low and rainfall is reduced (Table 3).

The highest quality for angelonia, bidens, Million Bells calibrachoa, cuphea, nemesia, oxalis, phlox, saliva, stachys, sutera, torenia, and verbena from Euro American occurred 31 to 63 DAP (Dec. 2006 to Jan. 2007) (Table 2). The highest quality chrysochephalum and Superbells calibrachoa occurred 89 DAP. The arctotis, diascia, heuchera, and mercardonia cultivars had quality ratings of 3 or better 31 DAP followed by a drop in quality 63 DAP and then an increase in quality 89 DAP. The only

two cultivars of osteospermum from Euro American that grew were 'Soprano Lilac Spoon' and 'Soprano Purple'. Average air temperatures in Dec. 2006 were approximately 3.3° warmer than in Dec. 2005, while temperatures in Nov. 2006 were 1.45° cooler (Table 3) (Moore and Fisher, 2006). Dec. 2006 also had more rain than in Dec. 2005. The warmer temperatures in December may have impacted plant quality. All of the Euro American cultivars started to decline 125 DAP (Apr. 2007).

The cultivars that ranked high in the survey included new guinea impatiens 'Harmony Candy Cream' and 'Harmony Deep Red'; double impatiens 'Musica Bicolor Pink', 'Musica Pink Energy', and 'Musica Spicy Orange'; arctotis 'Bumble Bee', 'Pumpkin Pie', 'Sashe', and 'Sun Spot'; calibrachoa 'Superbells Pink' and 'Superbells Tequila Sunrise'; chrysocephalum 'Flambe Yellow'; euphorbia 'Diamond Frost'; mecardonia 'Gold Flake'; osteospermum 'Soprano Purple'; oxalis 'Charmed Velvet'; phlox 'Intensia Cabernet', 'Intensia Neon Pink', and 'Intensia White'; and verbena 'Superbena Purple' (Table 4). As observed

Table 4. On 22 Mar. 2076, 28 people were asked to select their favorite cultivars planted in the University of Florida Fort Lauderdale trial garden. Responses were ranked statistically with cultivars being selected by more people having a higher rank than cultivars selected by fewer people. Any cultivar that was not selected had a ranking of 5.5.

| Cultivar                    | Survey ranking | Cultivar Su                    | rvey ranking | Cultivar                 | Survey ranking |
|-----------------------------|----------------|--------------------------------|--------------|--------------------------|----------------|
| Danziger "Dan" Flower Farms |                | Million Bells Trailing Blue    | 32.5         | Safari Plum              | 77.5           |
| New Guinea Impatiens Harr   | nony           | Million Bells Trailing Pink    | 5.5          | Safari Violet Rose       | 45.5           |
| Apricot Cream               | 77.5           | Million Bells Yellow           | 18           | Safari White             | 58.5           |
| Candy Cream                 | 111            | Superbells Blue                | 18           | Sunsatia Mango           | 74             |
| Dark Pink                   | 88.5           | Superbells Cherry Red          | 69           | Sunsatia Peach           | 58.5           |
| Deep Red                    | 104            | Superbells Coral               | 45.5         | Sunsatia Raspberry       | 18             |
| Magenta                     | 69             | Superbells Peach               | 18           | Osteospermum             |                |
| Raspberry Cream             | 45.5           | Superbells Pink                | 99.5         | Lemon Symphony           | 5.5            |
| Osteospermum Purple Eye     | 77.5           | Superbells Pink Kiss           | 5.5          | Soprano Lilac Spoon      | 18             |
| Jamesbrittania Britney      |                | Superbells Plum                | 32.5         | Orange Symphony          | 5.5            |
| Deep Pink                   | 45.5           | Superbells Red                 | 83           | Soprano Light Purple     | 5.5            |
| Maroon                      | 32.5           | Superbells Tequila Sunrise     | 107          | Soprano Purple           | 92.5           |
| Orange                      | 45.5           | Superbells Trailing Blue       | 69           | Oxalis                   |                |
| Purple                      | 45.5           | Superbells Trailing Light Blue | e 32.5       | Charmed Jade             | 18             |
| Calitunia Purple            | 18             | Superbells Trailing Plum       | 32.5         | Charmed Velvet           | 104            |
| Snapdragon Impr Bicolor Pi  | nk 32.5        | Superbells Trailing Rose       | 58.5         | Charmed Wine             | 77.5           |
| Double Impatiens Musica     |                | Superbells White               | 18           | Phlox                    |                |
| Bicolor Pink                | 92.5           | Chrysocephalum Flambe          |              | Intensia Cabernet        | 96             |
| Cherry Red                  | 58.5           | Orange                         | 69           | Intensia Lavender Glow   | 88.5           |
| Pink Aroma                  | 83             | Yellow                         | 98           | Intensia Lilac Rose      | 58.5           |
| Pink Energy                 | 96             | Cuphea Flamenco                |              | Intensia Neon Pink       | 101.5          |
| Spicy Orange                | 101.5          | Rumba                          | 32.5         | Intensia White           | 110            |
| Spicy Red                   | 83             | Samba                          | 69           | Salvia Golden Delicious  | 45.5           |
| White                       | 58.5           | Tango                          | 5.5          | Stachys                  |                |
| Euro American (Prove        | en Winners)    | Diascia Flying Colors          |              | Royal Cloak              | 18             |
| Angelonia                   | ,              | Trailing Antique Rose          | 58.5         | Sentimental Journey      | 74             |
| Angel Face Blue             | 18             | Coral                          | 58.5         | Sutera                   |                |
| Angel Face Blue Bicolor     | 32.5           | Red                            | 45.5         | Cabana Blue              | 18             |
| Angel Face White            | 18             | Euphorbia Diamond Frost        | 92.5         | Cabana                   | 32.5           |
| Dresden Blue                | 5.5            | Gypsophila Festival Star       | 74.0         | Snowstorm Giant Snowflak | te 18          |
| Pink                        | 5.5            | Heuchera                       |              | Snowstorm White          | 58.5           |
| Arctotis                    |                | Crème Brule                    | 58.5         | Torenia                  |                |
| Bumble Bee                  | 104            | Crème de Mint                  | 88.5         | Catalina Midnight Blue   | 45.5           |
| Peachy Mango                | 77.5           | Key Lime Pie                   | 32.5         | Catalina Pink            | 18             |
| Pink Sugar                  | 83             | Licorice                       | 83           | Verbena (Superbena)      |                |
| Pumpkin Pie                 | 107            | Mocha Mint                     | 58.5         | Burgundy                 | 83             |
| Sashe                       | 109            | Peach Melba                    | 45.5         | Coral                    | 58.5           |
| Sun Spot                    | 99.5           | Mecardonia Gold Flake          | 92.5         | Coral Red                | 58.5           |
| Bidens Solaire              | 45.5           | Nemesia                        |              | Dark Blue                | 32.5           |
| Calibrachoa                 | 13.3           | Blue Bird                      | 83           | Large Lilac Blue         | 45.5           |
| Million Bells Cherry Pink   | 32.5           | Compact Innocence              | 5.5          | Pink Shades              | 58.5           |
| Million Bells Craklin Fire  |                | Opal Innocence                 | 32.5         | Purple                   | 107            |
| Million Bells Lavender      | 69             | Refined Innocence              | 18           |                          |                |
| Million Bells Terra Cotta   |                | Safari Pink                    | 5.5          |                          |                |

in past years, the popular colors were vibrant pinks, purples, and reds. The bright yellow and orange flowers on the arctotis and chrysocephalum cultivars against their green tomentose foliage also were very popular.

### **Summary**

Information about bedding plant field performance is important when making recommendations for landscape use. Annual bedding plant trials also are useful to evaluate plant growth, plant and flower uniformity, and floral display. Consumer surveys

also help in marketing flower colors and plants that appeal to the general public.

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