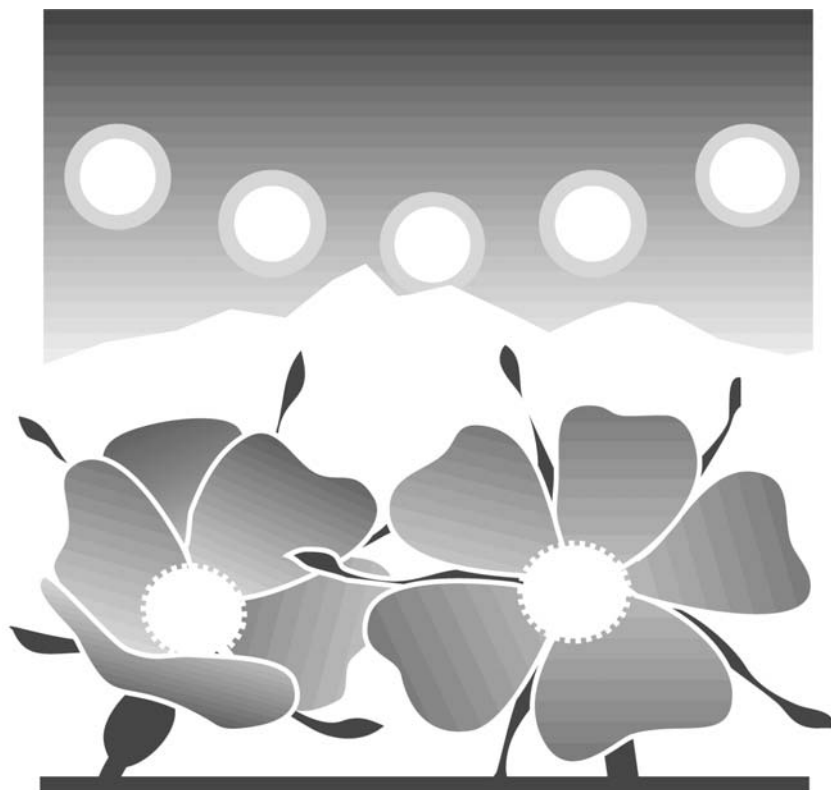


# Annual Flowering Plant Evaluations 2005



**GEORGESON**  
BOTANICAL GARDEN

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# Introduction

Each year more than 300 annual flowering plants are included in field trials at the Georgeson Botanical Garden. In 2005, trials included an additional 50 cultivars, primarily vegetatively propagated plants, grown in baskets and containers. The annual flower trials were planted from 31 May to 3 June, 2005 in the Perennial Landscape and All American Selections (AAS) Display Garden of the Georgeson Botanical Garden (64° 51' N, 147° 52' W). In field beds, Fairbanks silt loam soil was fertilized with 10-20-20S (4 lbs per 100 sq ft, 195 g per sq meter) on 31 May. Baskets and containers were filled with equal parts Triple R brand composted soil mix (Risse Greenhouses) and Pro Mix Bedding plant soilless potting mix supplemented with Terra.sorb water-absorbing crystals. Flowers were grown as seedling transplants with the exception of the sweet peas, annual flower mixes, and scarlet runner beans which were direct seeded. Plants in containers and baskets were purchased as plugs. Transplants were hardened off outdoors for one week prior to transplanting.

All cultivars in garden beds were planted according to recommended commercial spacing guidelines in unreplicated beds. Plant numbers varied according to plot size. The granular herbicide Preen (Trifluralin), was applied on 6 June to all plots. Plots were irrigated as needed throughout the summer. A fungicide treatment, Cleary 3336, was applied on 1 July to inhibit the growth of *Sclerotinia cottony* rot.

Weather data were compiled annually from a U.S. Weather Service station, elevation 475 ft (145 m), located approximately 350 ft (107 m) west of the garden. The summer was long and hot, similar to the previous growing season (Tables 1 and 2). The last frost occurred in early May, leading to one of the longest growing seasons in recent years. A typical drop in temperatures the first week of September ended the season for many flowers, but others continued to bloom through a balmy September. Despite the great early season weather, data on flowering and flower performance were similar to most years because planting did not commence earlier. Gardeners who planted early were treated to at least two extra weeks of blooms.

Plot evaluations began immediately after planting and continued weekly through September. They consisted of flowering dates and occurrence of disease, insect pests, seed pods, off-type plants, and deformities (Table 3). From 12 August to 22 August, each cultivar was measured for plant height and flower size, rated for performance of flowers and foliage, and evaluated for fragrance and potential use as cut flowers or in dried arrangements. Frost tolerance was noted one week after the first frost on 9 September.

Each cultivar grown in the garden beds is tested for at least three years depending upon the availability of seed or plugs. Only nine of the more than 300 cultivars tested showed consistently excellent performance with an overall rating of "4" (outstanding quality, the best of its kind) each year (Table 4).

Table 1. Weather data from the U.S. Weather Service station located just west of the garden for years 1995 - 2005.

| Season                    | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001   | 2002   | 2003   | 2004  | 2005  |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| Average temperature: (°F) |        |        |        |        |        |        |        |        |        |       |       |
| May                       | 52     | 44     | 48     | 49     | 46     | 44     | 45     | 50     | 44     | 52    | 56    |
| June                      | 59     | 57     | 61     | 58     | 61     | 59     | 57     | 58     | 61     | 66    | 67    |
| July                      | 62     | 62     | 64     | 62     | 61     | 59     | 61     | 61     | 61     | 65    | 63    |
| August                    | 56     | 52     | 57     | 52     | 58     | 52     | 57     | 54     | 55     | 62    | 58    |
| September                 | 51     | 41     | 50     | 46     | 45     | 41     | 49     | 47     | 41     | 38    | 46    |
| Maximum temperature (°F)  | 85     | 82     | 87     | 87     | 91     | 83     | 95     | 85     | 82     | 90    | 85    |
| Growing season:           |        |        |        |        |        |        |        |        |        |       |       |
| Last frost                | May 22 | June 5 | May 25 | May 13 | May 29 | May 15 | May 13 | May 12 | May 24 | May 8 | May 5 |
| First frost               | Sep 4  | Aug 27 | Aug 19 | Sep 13 | Sep 11 | Sep 16 | Sep 24 | Sep 2  | Sep 13 | Sep 4 | Sep 2 |
| Frost-free days           | 105    | 83     | 86     | 123    | 105    | 124    | 134    | 113    | 112    | 119   | 120   |
| Thaw degree days*         | 3677   | 2811   | 3656   | 3278   | 3383   | 2943   | 3439   | 2980   | 3123   | 3751  | 3767  |
| Rainfall (inches)         | 10.15  | 8.73   | 5.86   | 9.87   | 8.66   | 8.55   | 5.80   | 9.35   | 9.91   | 5.6   | 10.59 |
| Previous winter season:   |        |        |        |        |        |        |        |        |        |       |       |
| Minimum temperature (°F)  | -48    | -48    | -54    | -48    | -54    | -50    | -27    | -36.3  | -34.6  | -44.4 | -49.6 |
| Snowfall (inches)         | 69     | 47.8   | 38.4   | 30.6   | 31.6   | 62.2   | 39.9   | 39.7   | 33.2   | 51.7  | 70.9  |

\* Thaw degree days = Cumulative ( 1 May - 30 Sep ) average daily temperature minus 32 °F baseline.

Table 2. Weather data summaries for growing season years 2003 - 2005.

| Temperature °F        | May  |      |      | June |      |      | July |      |      | August |      |      | September |      |      |
|-----------------------|------|------|------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
|                       | 2003 | 2004 | 2005 | 2003 | 2004 | 2005 | 2003 | 2004 | 2005 | 2003   | 2004 | 2005 | 2003      | 2004 | 2005 |
| Average daily maximum | 55   | 64   | 68   | 74   | 80   | 73   | 70   | 76   | 74   | 66     | 75   | 69   | 50        | 47   | 54   |
| Monthly high          | 74   | 76   | 77   | 82   | 90   | 84   | 88   | 89   | 81   | 76     | 84   | 85   | 66        | 61   | 66   |
| Average daily minimum | 33   | 40   | 43   | 48   | 53   | 50   | 50   | 53   | 51   | 44     | 49   | 46   | 31        | 30   | 38   |
| Monthly low           | 27   | 30   | 31   | 40   | 42   | 43   | 41   | 44   | 39   | 39     | 35   | 33   | 17        | 26   | 28   |
| Rainfall (inches)     | 0.48 | 1.67 | 1.66 | 0.85 | 0.42 | 2.97 | 5.12 | 1.21 | 4.09 | 1.86   | 0.50 | .39  | 1.73      | 1.26 | 1.48 |

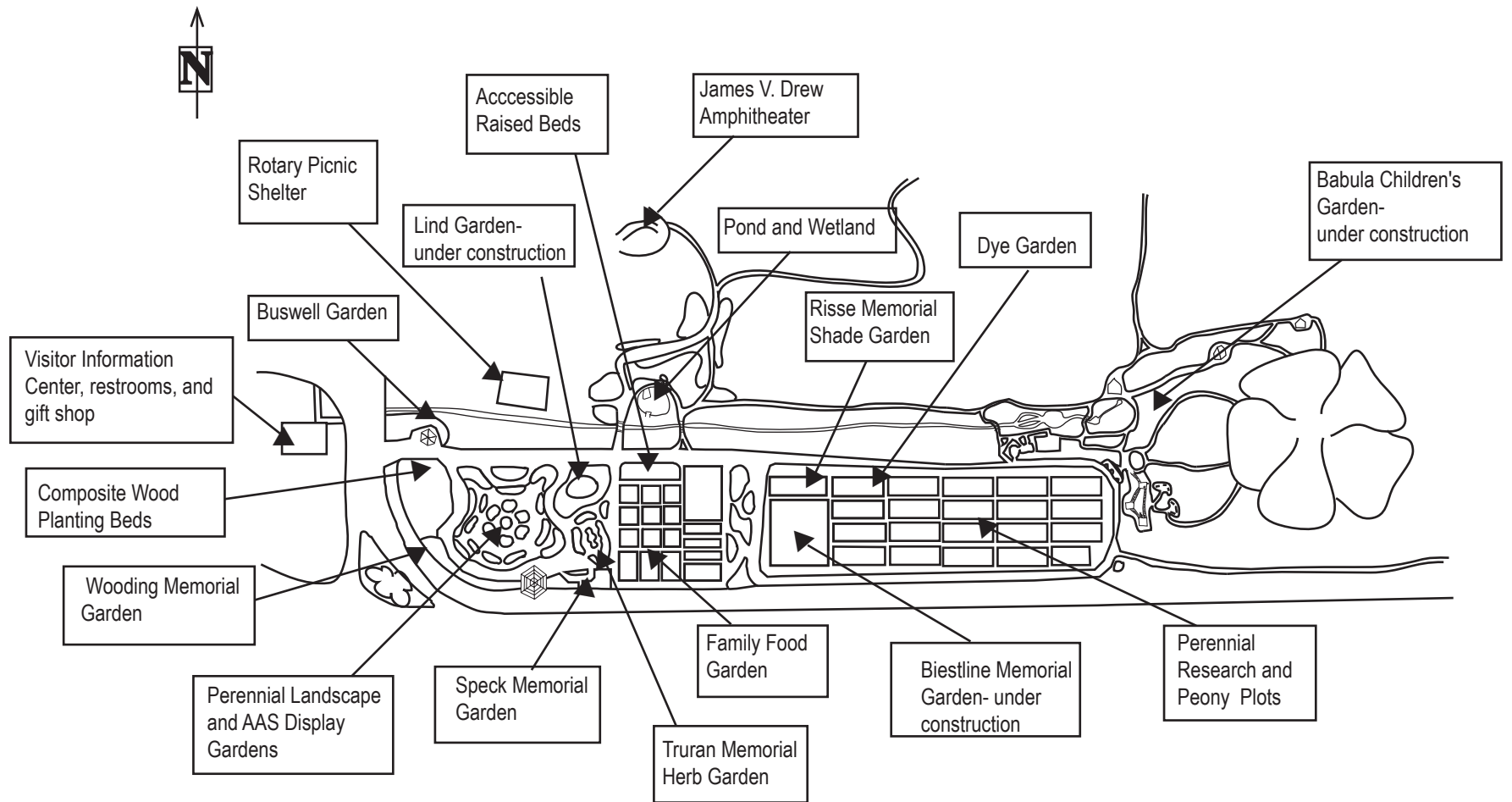


Table 3. Results of tested annual flower cultivars for 2005.

| Common name          | Cultivar                             | Flower color  | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |     | Flowering period <sup>y</sup> |     |     |     |         |         |    |    |    |    |   |   | Frost tolerance |  |
|----------------------|--------------------------------------|---|--------------------------|-----|-------------------------------|-----|-------------------------------|-----|-----|-----|---------|---------|----|----|----|----|---|---|-----------------|--|
|                      |                                      |   | min                      | max | min                           | max | Jun                           | Jul | Aug | Sep | foliage | flowers |    |    |    |    |   |   |                 |  |
| African daisy        |                                      | cream, orange, yellow w/ brown centers  | 8                        | 18½ | 1¼                            | 3   | *⊗                            | *⊗  | *⊗  | *⊗  | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ | *⊗ | n | y |                 |  |
| Ageratum             | High Tide Blue                       | lavender  | 6                        | 15  | ¼                             | 1½  | *⊗                            | *⊗  | *⊗  | *⊗  | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ |    | n | n |                 |  |
| Ageratum             | Mexicana Tall                        | dark blue   | 7½                       | 27  | ½                             | 2   | *⊗                            | *⊗  | *⊗  | *⊗  | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ |    | n | n |                 |  |
| Ageratum             | Pearl Royal                          | lavender  | 1½                       | 9½  | ¼                             | ¼   | *⊗                            | *⊗  | *⊗  | *⊗  | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ |    | n | n |                 |  |
| Alternanthera        | Cognac                               |   | *                        |     |                               |     |                               |     |     |     |         |         |    |    |    |    | n |   |                 |  |
| Alternanthera        | Creme de Menthe                      |   | *                        |     |                               |     |                               |     |     |     |         |         |    |    |    |    | n |   |                 |  |
| Alternanthera        | Party Time                           |   | *                        |     |                               |     |                               |     |     |     |         |         |    |    |    |    | n |   |                 |  |
| Amaranth             | Aurora                               | shades of peach   | 7                        | 13  |                               |     |                               |     |     |     |         |         |    |    |    |    | n |   |                 |  |
| Tricolor             |                                      |   |                          |     |                               |     |                               |     |     |     |         |         |    |    |    |    |   |   |                 |  |
| Annual Flower Mix    | Colorscape Mixture                   | mixed   | 3                        | 26  |                               |     |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Annual Flower Mix    | Johnny's Butterfly & Hummingbird Mix | mixed   | 2                        | 24  | ¾                             | 3½  |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Annual Flower Mix    | Knee-Hi Mix                          | mixed   | 5                        | 24  | ¾                             | 4   |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Annual Flower Mix    | Low-Growing Mix                      | mixed   | 6                        | 24  |                               |     |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | y |                 |  |
| Annual Flower Mix    | Surprise Mixture                     | mixed   | 10                       | 45  | ½                             | 3½  |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Aster, Annual Garden | Ballet Mix                           | white, yellow, cream, pink, red, purple, rose, salmon                                 | 12                       | 25  | 2                             | 5½  |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Aster, Annual Garden | Giant Ray Mix                        | lavender, light yellow, red, rose, white  | 14½                      | 27  | 3½                            | 8½  |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n |   |                 |  |
| Aster, Annual Garden | Perser Mix                           | lavender, rose, purple w/ yellow centers  | 10                       | 24  | 1½                            | 4½  | *                             | *   | *   | *⊗  | *⊗      |         |    |    |    |    | n | n |                 |  |
| Aster, Annual Garden | Serenade Mix                         | red, white, rose, blue, carmine, light blue, scarlet, blue/white & red/white bicolors | 9½                       | 30  | ½                             | 2   |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Aster, Annual Garden | Standy Mixture                       | pink, purple, rose, lavender, white   | 10                       | 32½ | 1¼                            | 3¾  |                               |     |     |     | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ | *⊗ | n | y |                 |  |
| Aster, China         | California Giant                     | white, lavender, pink   | 9                        | 27½ | 1¼                            | 5½  |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Aster, Peony         | Duchesse Formula Mix                 | rose, blue, yellow, white, sky blue, scarlet, silver-blue, silver-rose                | 17                       | 30½ | 2                             | 4   |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Bacopa               | Blue Showers                         | lavender  | *                        |     |                               |     | *⊗                            | *⊗  | *⊗  | *⊗  | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ |    | n | n |                 |  |
| Bacopa               | Snowstorm                            | white   | *                        |     |                               |     | *⊗                            | *⊗  | *⊗  | *⊗  | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ |    | n | n |                 |  |
| Balsam               | Tom Thumb                            | rose, salmon, scarlet, violet, white  | 17                       | 27½ | 1                             | 1½  |                               |     |     |     | *       | *       | *⊗ | *⊗ | *⊗ | *⊗ | n | n |                 |  |
| Begonia, Wax         | BabyWing Pink                        | pink  | 2                        | 6   | 1½                            | 1¼  | *⊗                            | *⊗  | *⊗  | *⊗  | *⊗      | *⊗      | *⊗ | *⊗ | *⊗ |    | n | n |                 |  |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, ⊗ indicates 50% bloom, and ⊕ indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments   |
|----------------------------|---------|---------|---------|-----------------|---------|--------|--|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |  |
| quantity                   | quality |         |         |                 |         |        |  |
| 3                          | 3       | 3       | 3       | n               | y       |        | Billowy floppy stems covered with blooms from mid-June through frost, excellent performer, best in mass plantings  |
| 3                          | 2       | 3       | 3       |                 |         |        |  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Medium height, more brown dead flower heads late in season than others tested, other tall cultivars are better   |
| 4                          | 4       | 4       | 4       | sl              | y       | y      | Nice tall ageratum with billows of blooms  |
|                            |         |         |         | y               | n       |        | Tiny, mounding, outstanding color and form early in season, some browning in rainy cool weather  |
|                            |         | 1       | 1       |                 |         |        | Only Alternanthera to make it to the end of the season, nice rich purple foliage, did not spread well and was not very ornamental in containers                              |
|                            |         | 1       | 1       |                 | n       | n      | Interesting variegated foliage, did not grow vigorously during the season, died out by mid-August  |
|                            |         | 1       | 1       |                 |         |        | Interesting variegated foliage, did not spread, small stems did not add interest in containers   |
|                            |         | 1       | 1       |                 | n       | n      | Very poor showing, did not grow well, eventually dwarfed by neighbors, stems yellow and leaves became brown and unsightly in early August                                    |
| 3                          | 3       | 3       | 3       | sl              | y       | y      | Spectacular mix of flowers in a medium-height mix, includes many cultivars rather than just wildflowers, great Shirley poppies   |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Medium-height mix but too much cosmos, many flowers engulfed with cosmos foliage, does not reach full bloom until August, great late-season show                             |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Excellent color mix throughout the flowering season, found some weeds in mix   |
| 3                          | 3       | 3       | 3       | sl              | y       | y      | Too much Linaria, good color mix, lots of lodging and bare spots   |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Excellent tall flower mix, did not come into full bloom until August due to height, spectacular late season color, lots of cosmos and poppies                                |
| 3                          | 3       | 3       | 3       | sl              | y       | y      | Interesting needle-type petals in puffball shapes, overall appearance is unkempt and floppy, good cut flower with staking  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Needle-like 5-inch blooms on large plants, needs staking for straight stems, good cut flower   |
| 2                          | 2       | 2       | 2       | n               | y       | y      | Grew well in the beginning of the season, died out completely by mid-August, has performed better in previous years  |
| 2                          | 2       | 3       | 2       | n               | y       | y      | Small semidouble daisy-like flowers in clusters on very upright, almost too upright stems, plants with different colors have very uneven height, not attractive              |
| 2                          | 2       | 2       | 2       | n               | y       | y      | Excellent mix of flower colors, poor showing compared to previous years, not as floriferous, floppy stems, needs some deadheading late in the season                         |
| 4                          | 4       | 4       | 4       | n               | y       | y      | Great mix of colors, excellent midseason blooms, needs deadheading after rain and late in season   |
| 2                          | 4       | 4       | 3       | n               | y       | y      | Fully double flowers in blend of six colors and two bicolors, thick stems great for cutting, some leaf browning in full bloom, flowers are late to appear but worth the wait |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Tiny flowers, not showy especially in August, ragged appearance  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Nice early season display, needs deadheading to maintain color late in season  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Big green bushes with lots of flowers along the stem among the leaves, display from above is mostly green, needs lots of space to spread, robust and bushy                   |
| 1                          | 1       | 1       | 1       | n               | n       | n      | Does not spread and produces few blooms in ground beds, not recommended  |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.

Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name          | Cultivar                 | Flower color  | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |        | Flowering period <sup>y</sup> |     |     |     |         |         |    |    |    |    |   |   | Frost tolerance |  |
|----------------------|--------------------------|---|--------------------------|-----|-------------------------------|--------|-------------------------------|-----|-----|-----|---------|---------|----|----|----|----|---|---|-----------------|--|
|                      |                          |   | min                      | max | min                           | max    | Jun                           | Jul | Aug | Sep | foliage | flowers |    |    |    |    |   |   |                 |  |
| Begonia, Wax         | Harmony Scarlet Improved | scarlet   | 1½                       | 8   | 1¼                            | 1¼     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Begonia, Wax         | Prelude Pink Improved    | pink  | 2                        | 8   | 1½                            | 2      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Begonia, Wax         | Prelude Scarlet Improved | scarlet   | 2                        | 6   | 1½                            | 1¼     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Begonia, Wax         | Prelude White            | white   | 1                        | 5.5 | ½                             | 1½     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Bidens               | Peters Gold Carpet       | gold  | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Bishop's Flower      | Green Mist               | white w/greenish cast   | 9                        | 27  | 1                             | 4½     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Blue Eyed Daisy      | Grandis                  | white w/blue centers  | 17½                      | 33½ | 1¼                            | 3      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Blue Lace Flower     | Madonna Mix              | pink, lavender  | 14½                      | 24  | 1                             | 2¼     |                               |     |     | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Brachycome           | Brachy Blue              | lavender w/brown or blue centers                              | 3                        | 13  | ¼                             | 1      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Broom corn           |                          | reddish brown   | 48                       | 68  | 5½ x 2                        | 13 x 3 |                               |     |     |     | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | y |                 |  |
| Bunny tails          |                          | tan   | 2                        | 10  | ¼                             | 1      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Burridge Greenthread | Philippine               | gold w/mahogany centers                                       | 3                        | 20  | 1                             | 2      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Calendula            | Complete Tall Mix        | yellow, orange, cream, yellow w/orange tips, mahogany centers | 19                       | 28½ | 1                             | 2¼     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Calendula            | Deja Vu                  | orange, yellow w/mahogany edges                               | 13                       | 34  | 1½                            | 2¼     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Calendula            | Pacific Beauty Mixed     | yellow, orange, cream   | 11                       | 24½ | 1½                            | 3      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Calendula            | Porcupine                | orange  | 10                       | 28  | 1                             | 3      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Calendula            | Red Splash               | orange, yellow, cream w/red highlights                        | 16                       | 27½ | 1                             | 3      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | y |                 |  |
| Calendula            | Victoria Sunset          | orange w/brown centers  | 13                       | 25  | 2                             | 2¼     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| Calibrachoa          | Callie Bright Red        | red   | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Calibrachoa          | Callie Orange            | rosy orange   | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Calibrachoa          | Callie Scarlet           | red   | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Calibrachoa          | Million Bells Yellow     | yellow  | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Calibrachoa          | Superbells Coral Pink    | coral pink  | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Calibrachoa          | Superbells Red           | red   | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| Calibrachoa          | Superbells Trailing Blue | lavender  | *                        |     |                               |        | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| California Poppy     | Golden Tears             | gold  | 3                        | 17½ | ¼                             | 1¼     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |
| California Poppy     | Inferno                  | electric orange red   | 4                        | 10  | ½                             | 1¼     | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | n | n |                 |  |
| California Poppy     | Ivory Castle             | creamy white  | 3                        | 17½ | 1                             | 2      | ☼☼                            | ☼☼  | ☼☼  | ☼☼  | ☼☼      | ☼☼      | ☼☼ | ☼☼ | ☼☼ | ☼☼ | y | y |                 |  |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> ☼ indicates just starting to bloom, ☼ indicates 50% bloom, and ☼ indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments  |
|----------------------------|---------|---------|---------|-----------------|---------|--------|---|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |   |
| quantity                   | quality |         |         |                 |         |        |   |
| 4                          | 4       | 4       | 4       | n               | n       | n      | Very nice plant for shade, bright, attractive color, needs close spacing for mass effect  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Light green foliage, need close spacing for best cover  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Very nice color and dark foliage, need close spacing for best cover, not as floriferous or full as Harmony Scarlet  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Needs a lot of deadheading, need close spacing for best cover   |
| 4                          | 4       | 4       | 4       | sl              | y       | n      | Wonderful spots of color all season, individual flowers scattered in basket forming brilliant accents   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Looks like Queen Anne's Lace, large bushy floppy stems, nice old-fashioned flower with ferny foliage  |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Bushy upright stems need room to spread, will take over a large section, attractive flower centers and light green foliage, flowers close up in cold cloudy weather, very nice display until snowfall |
| 2                          | 2       | 2       | 2       | n               | y       |        | Plants doing poorly, disease or Preen damage, weak spreading stems, exquisite "pincushion" flowers in great mix of colors   |
| 4                          | 3       | 3       | 3       | n               | n       | n      | Compact plants bearing masses of small daisy-like violet-blue fragrant blooms, fills in well and forms close mounds of brilliant color all summer   |
| 3                          | 3       | 3       | 3       | n               | y       | y      | For back of the border mostly as a novelty rather than show, interesting reddish brown flowers and seed heads   |
| 1                          | 1       | 1       | 1       | n               | n       | y      | Shorter than expected, hidden by more robust plants, cute fuzzy flower heads early, but dried up and died by mid-August   |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Billowy plant covered with blooms, wiry floppy stems, excellent edging plant when grown in masses   |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Long stems, great for cutting, nice mix of colors, some semi-doubles, most singles, solid colors and bicolors   |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Not the most floriferous, there are many better cultivars, needs deadheading  |
| 3                          | 3       | 3       | 3       | sl              | y       | y      | Nice, reliable mix of colors, needs deadheading   |
| 4                          | 4       | 4       | 4       | sl              | y       | y      | Petals folded under, looks like tubes of porcupine quills, unusual display, interesting two-toned color of petal  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Good mix of colors, needs serious deadheading to maintain show all season   |
| 4                          | 4       | 3       | 4       | n               | y       | y      | Intense double blooms fading slightly in centers, abundant blooms, one of the best Calendula colors tested  |
| 3                          | 3       | 2       | 3       | n               | n       | n      | Great brilliant spots of intense color, moderate spread   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Beautiful cascades of very nice color all season  |
| 4                          | 4       | 3       | 4       | n               | n       | n      | Best of the Calibrachos this season, huge cascading mounds of color, very striking  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Small flowers but abundant, nice cascading show in baskets  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Great cascades of flowers all season  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Few flowers, not very showy late in season, better at the beginning of the season   |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Disappeared by mid-August, small but colorful early in season   |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Compact mounds of finely-dissected foliage with brilliant flowers, very attractive, stunning  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Electric flower color, flowers close up in cold overcast weather  |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Outstanding color, nice contrast with dark green foliage, floppy stems, flowers close up in cloudy weather, needs deadheading late in season  |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.



Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name               | Cultivar              | Flower color   | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |        | Flowering period <sup>y</sup> |           |           |           |           |           |           |           |   |   |  |  | Frost tolerance |  |
|---------------------------|-----------------------|--|--------------------------|-----|-------------------------------|--------|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---|--|--|-----------------|--|
|                           |                       |  | min                      | max | min                           | max    | Jun                           | Jul       | Aug       | Sep       | foliage   | flowers   |           |           |   |   |  |  |                 |  |
| California Poppy          | Mission Bells         | white, pink, orange-red, cream, rose, orange                                       | 7                        | 18  | 1¼                            | ¾      | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | n | y |  |  |                 |  |
| Carex                     | Bronze                |  |                          |     |                               |        |                               |           |           |           |           |           |           |           | n |   |  |  |                 |  |
| Celosia                   | Fresh Look Red        | deep red   | 9                        | 16½ | ¾ x 1½                        | 5½ x 2 | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n | n |  |  |                 |  |
| Celosia                   | Fresh Look Yellow     | yellow w/orange highlights   | 6                        | 14½ | ¾ x 1¾                        | ¾ x 1½ | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           |           | n | n |  |  |                 |  |
| Celosia                   | Glow Carmine          | carmine red  | 4½                       | 8½  | 1½                            | 5      | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           |           | n | n |  |  |                 |  |
| Celosia                   | Glow Pink             | dusky pink   | 4½                       | 6½  | 1½ x 1                        | 3 x 2  |                               | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n | n |  |  |                 |  |
| Chilean Glory Vine        | Tresco Cream          | yellow, rose   | 27½                      | 82  | 1                             | 1¼     |                               |           | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | y | y |  |  |                 |  |
| Chinese Pink              | Victoriana            | maroon, white w/maroon markings, deep rose   | 4½                       | 11  | ¾                             | 2¾     | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | y | y |  |  |                 |  |
| Chrysanthemum             | Snowland              | white w/yellow centers   | 5½                       | 19  | ¼                             | 1½     | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | y | y |  |  |                 |  |
| Chrysanthemum, Tricolor   | Coconut Ice           | white w/rose markings, rosy pink w/brown & yellow centers                          | 13½                      | 25½ | 1                             | 2½     | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n | n |  |  |                 |  |
| Chrysanthemum, Tricolor   | Summer Festival       | white w/red markings, yellow w/mahogany markings, yellow, white w/mahogany centers | 7½                       | 29  | 1                             | 2½     | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | y | y |  |  |                 |  |
| Clarkia                   | Passion for Purple    | purplish pink  | 6                        | 15  | ¾                             | 2      | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | y | y |  |  |                 |  |
| Cleome                    | Colour Fountain Mixed | purple, pink, white bicolor w/white  | 24                       | 47  | 1¼                            | 1½     |                               | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Cleome                    | Pink Queen            | pink/rose bicolor  | 30                       | 59  | 2½ x 5                        | 8 x 6½ | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Coleus                    | Wizard Mosaic         |  | 3                        | 7½  |                               |        |                               |           |           |           |           |           |           | n         | n |   |  |  |                 |  |
| Coreopsis                 | Quills and Thrills    | red & yellow combinations  | 7                        | 27½ | 1½                            | 2      |                               |           | * * * * * | * * * * * | * * * * * | * * * * * |           | y         | y |   |  |  |                 |  |
| Coreopsis                 | Sunfire               | yellow w/burgundy center   | 12                       | 17  | 1¼                            | 2¼     |                               | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | y | y |  |  |                 |  |
| Coreopsis, Large-flowered | Early Sunrise         | gold   | 18½                      | 23½ | 1¼                            | 2¼     |                               | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | y | y |  |  |                 |  |
| Coreopsis, Large-flowered | Rising Sun            | yellow w/red flecks  | 5                        | 18  | 1½                            | 2¼     |                               | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Cosmos                    | Dazzler               | crimson, white, pink, rose   | 18                       | 36  | 2                             | 4      |                               | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Cosmos                    | Early Summer Mix      | magenta, pink  | 14                       | 34  | 2¼                            | 5      |                               | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Cosmos                    | Fairy Mix             | pink, white, magenta, pink w/magenta edges   | 11½                      | 34½ | 2                             | 5      | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Cosmos                    | Unique Mix            | magenta, pink  | 12                       | 28  | 2½                            | 5½     | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Creeping Cuphea           | Purple Star           | purple w/cream center  | 8                        | 20¼ | 1                             | 1½     | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |
| Cuphea (miniata)          | Summer Medley         | rose   | 88                       | 17  | 1¼                            | 1½     | * * * * *                     | * * * * * | * * * * * | * * * * * | * * * * * | * * * * * |           | n         | n |   |  |  |                 |  |

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<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, \* indicates 50% bloom, and \* indicates full bloom.



| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments  |
|----------------------------|---------|---------|---------|-----------------|---------|--------|---|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |   |
| quantity                   | quality |         |         |                 |         |        |   |
| 3                          | 3       | 3       | 3       | y               | y       | n      | Abundant semidouble blooms in a great mix of colors, just about the entire spectrum for California poppies, floppy weak stems spread color in large open mounds                                 |
|                            |         | 1       | 1       |                 |         |        | Died  |
| 2                          | 3       | 2       | 2       | n               | n       | n      | Short spikes of color, remain tiny, if spaced close together would provide a good show, grown in raised beds, AAS Gold Medal flower award, Fleuroselect Gold Medal 2004                         |
| 2                          | 3       | 2       | 2       | y               | n       | y      | Later to bloom than its red cultivars, more branching and taller plants this season, electric colors, AAS flower award 2004, Fleuroselect Quality Award 2004                                    |
| 2                          | 3       | 2       | 2       | n               | n       | n      | Short spikes of electric color, needs close spacing for good show especially in ground beds, foliage quite yellow in mid-August   |
| 2                          | 3       | 2       | 2       | n               | n       | y      | Color is unique, needs close spacing for full color in mass plantings   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Outstanding vine with clusters of bicolor flowers and very ornamental glossy green segmented foliage, as vigorous as scarlet runner bean as a climber, a garden favorite                        |
| 2                          | 3       | 3       | 3       | sl              | y       | n      | Beautiful feathery petals on tall stalks, great for cutting, not as floriferous as other dianthus, needs deadheading late in the season   |
| 4                          | 4       | 3       | 4       | n               | y       | y      | Little daisy flowers, abundant blooms cover the mounded plants, nice long-lasting display, keeps going until snow   |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Beautiful mix of colors on double blooms, lots of flowers on upright and floppy stems, needs support to reduce significant lodging late in the season   |
| 4                          | 3       | 3       | 3       | y               | y       | y      | Floppy stems, abundant blooms, outstanding mix of flower colors and shapes, solids and multicolored rings, tolerates only light frost   |
| 4                          | 4       | 4       | 4       | n               | y       |        | Outstanding color, very frilly flowers on upright stems, excellent cut flower, better show this year  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Outstanding mix of colors on tall upright stems, standard for many years  |
| 4                          | 4       | 3       | 4       | y               | y       | n      | Outstanding tall background plant covered with blooms, spines make it difficult to cut, old fashioned favorite  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Dwarf and compact plant with interesting spotted and streaked foliage forming a mosaic pattern, need close spacing for mass effect, did not flower, overall effect was not attractive           |
| 3                          | 3       | 3       | 3       | n               | y       |        | Airy bushy upright flowers with fluted petals that are wider at the tip than the base, interesting bloom color combinations all summer, great planted in masses or as filler in back of borders |
| 2                          | 2       | 3       | 2       | n               | y       | y      | Not as floriferous as other Coreopsis tested this season, medium-sized blooms on straight stems   |
| 3                          | 3       | 3       | 3       | sl              | y       | y      | Medium sized plant loaded with double blooms from midseason on, straight upright stems, needs deadheading late in the season  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Loaded with blooms this year unlike last year, tall straight-as-arrow stems   |
| 2                          | 3       | 3       | 2       | n               | y       | y      | Big and bushy, late but nice flowers  |
| 2                          | 3       | 3       | 3       | n               | y       | n      | Large bush needs room to spread, produced more foliage than flowers this season   |
| 2                          | 2       | 3       | 2       | n               | y       | n      | Tall floppy stems with small flowers, not the best flower display compared to other cosmos  |
| 2                          | 2       | 3       | 2       | n               | y       | n      | Covered with huge blooms, nice compact growth   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Bushy with deep green foliage and tiny flowers, fills in well, flower display is disappointing, tiny and appear to be sprinkled on big green bush   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | More showy than other Cuphea tested this summer, larger flowers on slightly larger plants, bushy green plant with a few flowers, not very showy especially late in the season                   |

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| Common name  | Cultivar               | Flower color   | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |     | Flowering period <sup>y</sup> |     |     |     |         | Frost tolerance |   |   |   |   |   |   |
|--------------|------------------------|--|--------------------------|-----|-------------------------------|-----|-------------------------------|-----|-----|-----|---------|-----------------|---|---|---|---|---|---|
|              |                        |  | min                      | max | min                           | max | Jun                           | Jul | Aug | Sep | foliage | flowers         |   |   |   |   |   |   |
| Cupid's Dart |                        | blue   | 18                       | 34¼ | 1                             | 2   |                               | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Dahlia       | Amorus                 | variegated orange-red                                      | 45                       | 65  | 2½                            | 9   |                               |     |     | *   | *       | *               | * |   |   |   | n | n |
| Dahlia       | Blue Angel             | lavender blue  | 18                       | 36  | 2¼                            | 4½  |                               |     |     | *   | *       | *               | * | * | * | * | n | n |
| Dahlia       | Citron du Cap          | lemon yellow   |                          |     |                               |     |                               |     |     |     |         |                 |   |   |   |   | n | n |
| Dahlia       | Fidalgo Lisa           | lavender pink fading to light lavender in center           | 8½                       | 21  | 2½                            | 4   |                               |     |     |     | *       | *               | * | * |   |   | n | n |
| Dahlia       | Gloriosa               | variegated yellow w/red splotches                          | 24                       | 30  | 4                             | 6   |                               |     |     |     |         | *               | * | * |   |   | n | n |
| Dahlia       | Hello Gorgeous Mixture | red, yellow, orange, white, pink, rose                     | 6                        | 15  | 2½                            | 3¾  | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |
| Dahlia       | Hillcrest Fiesta       | yellow w/orange tips                                       | 38                       | 42  | 3½                            | 7   |                               |     |     | *   | *       | *               | * | * | * |   | n | n |
| Dahlia       | Jo                     | pale yellow  | 45                       | 48½ | 5                             | 9   |                               |     |     | *   | *       | *               | * | * | * |   | n | n |
| Dahlia       | Mel's Misty Sunrise    | creamy yellow w/pink highlights                            | 33                       | 44½ | 6½                            | 7½  |                               |     |     |     | *       | *               | * | * | * |   | n | n |
| Dahlia       | Mom's Special          | pale lavender w/dark lavender flecks                       | 40½                      | 44½ |                               | 8½  |                               |     |     |     | *       | *               | * | * | * |   | n | n |
| Dahlia       | Philothea              | pink w/white centers                                       | 16                       | 50  | 7                             | 7   |                               |     |     |     | *       | *               | * | * | * |   | n | n |
| Dahlia       | Picotee Coral Beauty   | coral  | 41½                      | 60  | 4                             | 5½  |                               |     |     | *   | *       | *               | * | * | * |   | n | n |
| Dahlia       | Prince Valient         | variegated red & white                                     |                          |     |                               |     |                               |     |     |     |         |                 |   |   |   |   |   |   |
| Dahlia       | Senior Ball            | lavender & white   | 28½                      | 36  | 4½                            | 6   |                               |     |     |     | *       | *               | * | * |   |   | n | n |
| Dahlia       | Star-Gazer             | white, rose, orange, yellow, pink, burgundy, some bicolors | 13                       | 30  | 2½                            | 3¾  | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |
| Dianthus     | Amazon Neon Cherry     | cherry red   | 6½                       | 27½ | ¾                             | 1   |                               |     |     | *   | *       | *               | * | * | * | * | n | y |
| Dianthus     | Amazon Neon Purple     | purplish pink  | 19                       | 26  | 1¾                            | 3   |                               |     |     | *   | *       | *               | * | * | * | * | y | y |
| Dianthus     | Amazon Rose Magic      | white ages to pinks & rose                                 | 14                       | 25½ | 1½                            | 4   | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | y |
| Dianthus     | Dynasty Orchid         | deep purplish rose   | 9¾                       | 21  | ¾                             | 1½  | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Dianthus     | Dynasty Purple         | rosy purple  |                          |     |                               |     | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Dianthus     | Dynasty Red            | dark velvety red   | 10                       | 20  | 1                             | 1½  | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Dianthus     | Dynasty Rose Lace      | rose pink w/ white edge                                    | 10                       | 20  | ½                             | 1½  | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Dianthus     | Dynasty White Blush    | white w/rose flecks  | 7                        | 17  | ½                             | 1¼  | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Dianthus     | Panda Mix              | white, pink, crimson                                       | 4                        | 11  | ¾                             | 2½  | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Dianthus     | Supra Purple           | rose   | 5½                       | 16½ | 1¼                            | 2¼  | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Diascia      | Darla Pink             | pink   | *                        |     |                               |     | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Diascia      | Darla Red              | red  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Diascia      | Darla White            | white  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |
| Diascia      | Diamonte Coral Rose    | coral  | 6                        | 17  | ¾                             | 1   | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |
| Diascia      | Sun Chimes Coral       | coral pink   | *                        |     |                               |     | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, \* indicates 50% bloom, and \* indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments   |
|----------------------------|---------|---------|---------|-----------------|---------|--------|--|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |  |
| quantity                   | quality |         |         |                 |         |        |  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Look like bachelor's buttons but longer stems, needs deadheading for best results, best as filler or accent  |
| 4                          | 4       | 3       | 4       | n               | y       | n      | Compact symmetrical flowers in perfectly round button form, outstanding flecked colors   |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Spectacular medium-sized blooms, especially attractive color   |
|                            |         |         |         | n               | n       | n      | Blooms with twisted tattered edges, cactus form, outstanding bloom shape   |
| 2                          | 3       | 3       | 3       | n               | y       | n      | Medium-sized blooms, interesting quill petals  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Outstanding colored blooms, great contrast of blooms with glossy foliage, late to bloom but worth the wait   |
| 2                          | 3       | 3       | 3       | y               | y       | n      | Medium-sized semidouble blooms, excellent mix of colors with lots of flowers, needs deadheading  |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Nice bicolor semicactus-type flowers, shorter than most grown in the garden  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Small-sized waterlily-type blooms, outstanding color, great contrast against dark green foliage  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Large lacinated flower form, very interesting two-toned flowers with distinct feathery appearance  |
| 2                          | 4       | 4       | 2       | sl              | y       | n      | One spectacular huge bloom, too late for best show   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Medium-sized blooms, beautiful lacinated flower type   |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Outstanding medium-sized blooms on tall plants, great late season show formal decorative style, small flower   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Small-sized ball flower form with beautiful symmetrical blooms showy in late season  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Abundant cactus-type blooms on plants much taller than advertised, covered with blooms, nice mix of colors   |
| 3                          | 4       | 3       | 3       | y               | y       | n      | Huge balls of flowers on tall stems, needs closer spacing than shorter Dianthus to fill in the beds, very attractive colorful display, excellent for cutting   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Huge balls of electric flowers on tall straight stems, very colorful in mass plantings, doesn't branch out far, needs closer spacing than shorter Dianthus cultivars, great in mixed borders or background         |
| 3                          | 3       | 3       | 3       | y               | y       | n      | Huge balls of flowers, plant something in front of these tall unbranching stems  |
| 3                          | 3       | 3       | 3       | sl              | y       | y      | Very attractive open clusters of double blooms on tall, upright stems, needs deadheading by mid season   |
| 2                          | 2       | 3       | 2       | y               | y       | n      | Does not branch and fill in bed, needs closer spacing than other shorter Dianthus, nice large flower clusters but overall effect is poor, performed poorly   |
| 2                          | 3       | 2       | 3       | sl              | y       | y      | Rich velvety flowers on tall stems, loose open-flower clusters, must have close spacings or be interplanted with other flowers for best effect   |
| 2                          | 3       | 2       | 2       | y               | y       | y      | Late to come into full bloom, not many blooms this season, great stem length for cutting   |
| 4                          | 3       | 2       | 3       | n               | y       | y      | Tall open stems with small flowers, needs close spacing, tolerates light frost   |
| 2                          | 2       | 2       | 2       | y               | y       | y      | Performed better in raised beds than ground beds, not as showy this year, needs deadheading in late season   |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Bred as a short-stemmed cut flower, lacy highly fringed petal edges, no maintenance, very attractive and loaded with blooms, AAS flower award 2006   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Good filler early in the season, gets leggy and sparse by mid-August, great color  |
| 2                          | 3       | 2       | 3       | n               | n       | n      | Good filler early in the season, gets leggy and sparse by mid-August, great color  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Nice filler early in season but died out by mid August   |
| 3                          | 2       | 3       | 3       | n               | n       | n      | First AAS cool Season Bedding Plant Award Winner 2006, outstanding color, leggy and floppy late in season, probably best used in mixed containers or beds, renewed growth in fall with nice display until snowfall |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Outstanding color and great display nearly all season, needs some deadheading  |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.

Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name               | Cultivar                       | Flower color  | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |     | Flowering period <sup>y</sup> |     |     |     |         |         |    |    |   |   |   |   | Frost tolerance |  |
|---------------------------|--------------------------------|---|--------------------------|-----|-------------------------------|-----|-------------------------------|-----|-----|-----|---------|---------|----|----|---|---|---|---|-----------------|--|
|                           |                                |   | min                      | max | min                           | max | Jun                           | Jul | Aug | Sep | foliage | flowers |    |    |   |   |   |   |                 |  |
| Diascia                   | Sun Chimes Peach               | pink  | *                        |     |                               |     | **                            | **  | **  | **  | **      | **      | ** | ** |   |   | y | y |                 |  |
| Dusty Miller              | New Look                       |   | 8                        | 13  |                               |     |                               |     |     |     |         |         |    |    |   |   | y |   |                 |  |
| Flaxleaf Pimpernel        |                                | blue  | 3                        | 11  | ¼                             | 1   | *                             | *   | *   | *   | *       | *       | *  | *  | * | * | y | y |                 |  |
| Flowering Kale Gaillardia | Pigeon Formula Mix Arizona Sun | mixed cream, purple mahogany red w/bright yellow tips | 10                       | 14  |                               |     |                               |     |     |     |         |         |    |    |   |   | y |   |                 |  |
| Gaillardia                | Goblin                         | red w/yellow tips w/yellow & red centers              | 9                        | 18  | 1¾                            | 2¼  |                               |     |     |     |         |         |    |    |   | * | * | y | y               |  |
| Gaillardia                | Goblin                         | red w/yellow tips w/yellow & red centers              | 6                        | 13  | 1¼                            | 4¼  |                               |     | *   | *   | *       | *       | *  | *  | * | * | y | y |                 |  |
| Gazania                   | Frosty Kiss Mixture            | orange, red, yellow, rose w/gold centers              | 8                        | 10  | 2½                            | 4   | *                             | *   | *   | *   | *       | *       | *  | *  | * | * | n | y |                 |  |
| Gazania                   | Kiss Mixture                   | orange, red, gold, pink, yellow, white                | 9                        | 13  | 1½                            | 3   | *                             | *   | *   | *   | *       | *       | *  | *  | * | * | n | y |                 |  |
| Gentian sage              | Blue Angel                     | royal blue  | 11                       | 34  | 1                             | 1¼  | *                             | *   | *   | *   | *       | *       |    |    |   |   | n | n |                 |  |
| Geranium                  | Black Velvet Appleblossom      | pink fading to white in center                        | 9                        | 17  | 1½                            | 3¾  | *                             | *   | *   | *   | *       | *       | *  | *  |   |   | n | n |                 |  |
| Geranium                  | Designer Dark Red              | red   | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Designer Rose                  | rose  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Designer Salmon Rose           | salmon  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Gloria                         | orange  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Multibloom Capri               | coral rose  | 7                        | 12½ | 1½                            | 5   | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Pink Expectations              | pink  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Rocky Mountain Coral           | coral pink  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Rocky Mountain Lavender        | light lavender  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Rocky Mountain White           | white   | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Schoen Helena                  | salmon pink   | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Geranium                  | Tango Orange                   | orange  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | *  | *  | * | * | n | n |                 |  |
| Geranium                  | Multibloom Red                 | red   | 4½                       | 18½ | 1                             | 2   | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | y | y |                 |  |
| Geranium                  | Orbit Deep Salmon              | salmon pink   | 12                       | 14  | 2½                            | 3½  | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | y | y |                 |  |
| Godetia                   | Fruit Punch                    | rose, pink, white bicolors & solids                   | 6                        | 14  | 1½                            | 2½  | *                             | *   | *   | *   | *       | *       | *  | *  | * |   | n | n |                 |  |
| Gypsophila                | Gypsy Deep Rose                | rose pink   | 1                        | 5   | ¼                             | ¼   | *                             | *   | *   | *   | *       | *       | *  | *  | * | * | n | n |                 |  |
| Hollyhock                 | Queeny Purple                  | dark rose   | 15                       | 20  | 2                             | 5   | *                             | *   | *   | *   | *       | *       | *  |    | * |   | n | n |                 |  |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, \* indicates 50% bloom, and \* indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments   |
|----------------------------|---------|---------|---------|-----------------|---------|--------|--|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |  |
| quantity                   | quality |         |         |                 |         |        |  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Billowy masses of color early in the season, ragged late in the season, color confined to tips of branches with lots of green seed pods  |
|                            |         | 4       | 4       | n               | y       | y      | Outstanding addition to Dusty Millers grown for their foliage, larger leaves than others, fills in well and forms a great carpet for edging, superb show long after frost                                    |
| 3                          | 4       | 3       | 3       | n               | n       | n      | Tiny mounding plants covered early in the season with tiny flowers, becomes open, leggy and few-flowered at end of season, recommended for containers, flowers close up in cold, cloudy weather              |
| 3                          | 3       | 4       | 4       | n               | n       | n      | Great mix of foliage colors, fills in bed well with large mounded plants, performs well from planting to snow  |
|                            |         | 3       | 3       | n               | y       | y      | Not nearly as spectacular as Goblin, flowers are very late but huge, AAS Award Winner 2005, Fleuroselect Gold Medal winner for 2005  |
| 3                          | 4       | 3       | 3       | n               | y       | y      | Outstanding blanket of huge flowers, gets better every year, mounds of plants choked with blooms, great two-toned effect on flowers, no maintenance required, great show from midseason on                   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Flowers not as abundant as other Gazanias, interesting silvery foliage, flowers close up in cold cloudy weather, Fleuroselect Quality Award  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Compact plants with excellent color mix, closes up in cloudy cold weather, fine silvery foliage  |
| 2                          | 3       | 2       | 2       | sl              | y       | n      | Tall spikes top dark green foliage, flowers begin early but are nearly nonexistent by mid August, a few flowers appear at any one time, not very showy but great color                                       |
| 2                          | 2       | 4       | 3       | y               | n       | n      | Continues the tradition of dark leaves that contrast nicely with flowers, attractive blooms against the foliage but blooms are small, too open for spectacular display, grows well and fills in beds         |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Rich velvety blooms, intense color, needs deadheading throughout the season  |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Excellent vibrant color, great height in baskets, needs deadheading  |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Good color and size of blooms, needs deadheading and significant leaf removal in late summer   |
| 2                          | 2       | 3       | 2       | sl              | n       | n      | Medium-sized blooms, nice color but few blooms, not as showy as other geraniums  |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Excellent color on medium-sized flower heads, needs deadheading for best display   |
| 2                          | 2       | 2       | 2       | sl              | n       | n      | Better pink cultivars available, not as showy as others  |
| 2                          | 2       | 3       | 2       | sl              | n       | n      | Nice color but flower heads were small, entire plant was overwhelmed by other plants in the container  |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Large flower heads, good height for baskets, needs deadheading and leaf removal especially in late season  |
| 2                          | 2       | 3       | 2       | sl              | n       | n      | Medium-sized flower heads, needs serious deadheading to remove brown spent flowers, not the best tested  |
| 2                          | 2       | 3       | 2       | sl              | y       | n      | Small flower heads, not as floriferous as other geraniums, needs deadheading   |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Brilliant display of large flower clusters, covered with blooms all summer, needs some deadheading   |
| 4                          | 4       | 4       | 4       | sl              | n       | n      | Brilliant balls of flowers, fills in well, very attractive display through most of summer, needs deadheading   |
| 4                          | 4       | 4       | 4       | y               | y       | n      | Outstanding cover of medium-sized balls of flowers, very attractive color, blooms all season, some deadheading needed in late season   |
| 3                          | 4       | 4       | 3       | sl              | y       | n      | Dwarf compact uniform plants with early blooms in a mostly pink colors, have grown better cultivars, a little short for cutting, needs deadheading in late season  |
| 3                          | 3       | 2       | 2       | n               | n       | n      | Mostly double flowers, abundant blooms early, some Sclerotinia late in season, no maintenance needed, many plants died by mid-August, AAS bedding plant award 2004, Fleuroselect Quality Award 2004          |
| 2                          | 4       | 2       | 3       | n               | n       | n      | Bright flowers to 5 inches in size, short, flowers often hidden by foliage and new upright branches, AAS flower award winner 2004, Fleuroselect Quality Mark 2004, died out by mid August, needs deadheading |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.

Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name           | Cultivar                         | Flower color                                 | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |         | Flowering period <sup>y</sup> |     |     |     |         | Frost tolerance |    |    |   |   |
|-----------------------|----------------------------------|--|--------------------------|-----|-------------------------------|---------|-------------------------------|-----|-----|-----|---------|-----------------|----|----|---|---|
|                       |                                  |  | min                      | max | min                           | max     | Jun                           | Jul | Aug | Sep | foliage | flowers         |    |    |   |   |
| Hyacinth Bean         | White                            | white  | 24                       | 48  | ¾                             | 1       |                               |     |     |     | *⊗      | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Dazzler Apricot Improved         | apricot pink                                 | 1                        | 5   | 1                             | 1½      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Dazzler Pink Deep Improved       | pink   | 2                        | 8   | ¾                             | 1¾      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Dazzler Burgundy                 | burgundy                                     | 1½                       | 6½  | 1¾                            | 2¼      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Dazzler Cranberry Improved       | dark wine red                                | 1                        | 8   | 1                             | 2       | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Dazzler Violet Improved          | lavender                                     | 1½                       | 7   | 1¼                            | 2       | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Dazzler Lilac Splash Improved    | deep violet w/dark magenta eye               | 2                        | 8½  | 1½                            | 2       | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Deco Orange                      | orange                                       | 2                        | 8   | 1¼                            | 1¾      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Fanciful White                   | white  | 1                        | 6½  | ¾                             | 1¾      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Showstopper Burgundy Improved    | burgundy                                     | 3                        | 11½ | 1½                            | 2¼      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Showstopper Deep Orange Improved | orange                                       | 1½                       | 9   | 1½                            | 1¾      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Showstopper Lilac Improved       | lilac pink                                   | 1                        | 8   | 1½                            | 1¾      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Showstopper Pink Improved        | pink   | 1                        | 8   | ½                             | 2¼      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Showstopper Red Improved         | red  | 1                        | 5   | 1                             | 2       | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Showstopper Soft Blue Improved   | lavender pink                                | 1                        | 8   | ¾                             | 1¾      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Showstopper White                | white  | 4                        | 8   | 1¼                            | 1½      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Stardust Cherry                  | white & cherry red bicolor                   | 1                        | 3   | ¾                             | 1½      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Swirl Mix Monet                  | pink or rose fading to light pink at centers | 1                        | 6   | ¾                             | 2       | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Swirl Raspberry                  | light rose w/dark rose edges & centers       | 1                        | 4   | 1                             | 1¾      | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, Garden     | Xtreme Mixture                   | lilac, pink, red, violet, white              | 1                        | 5   | 1½                            | 2       | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Impatiens, New Guinea | Divine Mix                       | lavender, rose                               | 2½                       | 6   | 1                             | 2½      | ⊗                             | ⊗   | *⊗  | *⊗  | *⊗      | *⊗              | *⊗ | *⊗ | n | n |
| Juncus                | Quartz Creek                     |  | *                        |     |                               |         |                               |     |     |     |         |                 |    |    | n |   |
| Lavatera              | Twins Hot Pink                   | pink w/rose markings                         | 8½                       | 24  | 1½                            | 3½      | *⊗                            | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | y | y |
| Lobelia               | Laguna Pink                      | pink   | *                        |     |                               |         | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Lobelia               | Laguna Sky Blue                  | lavender                                     | *                        |     |                               |         | ⊗                             | ⊗   | ⊗   | ⊗   | ⊗       | ⊗               | ⊗  | ⊗  | n | n |
| Lupine                | Band of Nobles                   | pink/rose, purple/white, purple/red bicolors | 25                       | 39  | 2½ x 1¼                       | 11½ x 3 | *                             | *   | *   | *   | *       | *               | *  | *  | y | y |
| Lupine                | Gallery Yellow                   | yellow w/white highlights                    | 11½                      | 21½ | 3 x 1¼                        | 8½ x 1¾ | **                            | **  | **  | **  | **      | **              | ** | ** | y | y |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, ⊗ indicates 50% bloom, and ⊗ indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments   |
|----------------------------|---------|---------|---------|-----------------|---------|--------|--|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |  |
| quantity                   | quality |         |         |                 |         |        |  |
| 2                          | 2       | 3       | 2       | n               | y       | n      | Not as vigorous as Scarlet Runner Bean for trellises, nice contrasting color   |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Interesting color, uneven height, ragged overall appearance  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Large flowers, attractive color, great cover   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Nice color, not as good as other burgundy cultivars, smaller flowers and not as floriferous  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Uneven height and ragged appearance, needs deadheading for better show, excellent color  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Rich deep flower color, yellow foliage late in season  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Compact uniform habit with masses of blooms, flowers freely to frost, abundant blooms in warm summer   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Heat made this cultivar grow well, excellent growth and spread, nice contrast between flowers and foliage  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Beautiful semidouble flowers, medium size, yellow foliage late in season, needs deadheading  |
| 4                          | 4       | 4       | 4       | n               | n       | n      | Outstanding height and spread this season, best show for mounds of color, huge flowers   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Good in containers, excellent flower color, abundant blooms, deep rich color contrasts well with foliage, needs some deadheading   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Flowers freely, good in containers, excellent solid color with medium-sized blooms, uneven height  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Good-sized flowers with two-toned color, beautiful contrast of pink ground color and rose overtones, uneven height through the bed, not as floriferous as other Impatiens, ragged look this year |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Outstanding color, excellent contrast with dark foliage, more blooms this season than last, short but nice   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Flowers freely, good in containers, popular color, needs deadheading   |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Brilliant white for shade, great contrasting foliage, uneven height and flower display, more floriferous other years   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Great flower color, not as floriferous as some other cultivars   |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Mixed colors, not as attractive as solid colors, medium-sized flowers, uneven height   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Interesting colors with swirl patterns on all petals, attractive large flowers, needs deadheading, fills in well   |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Not as showy as other Impatiens, good flower size but sparse   |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Huge flowers, needs close spacing for mass effect, did not spread, flowers confined to top of single stems   |
| 2                          | 3       | 3       | 3       | n               | y       | n      | Interesting cluster of spiking greens added height to containers, not visible among riots of flower colors   |
| 2                          | 3       | 1       | 2       | n               | y       | n      | Many died early from disease, remaining were upright stalks loaded with flowers, disease ruined the effect   |
| 2                          | 3       | 3       | 3       | n               | n       | n      | Great filler early in season, needs significant pruning to maintain color  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Nice airy filler in baskets, needs significant deadheading late in the season  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Excellent tall flower stalks for mid- and late-season show, fuzzy seed pods in late August, not as floriferous   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Attractive spikes, excellent contrast with dark green foliage, best show late in season after light frost  |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.



Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name       | Cultivar               | Flower color                                     | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |                                    | Flowering period <sup>y</sup> |     |     |     |         | Frost tolerance |   |   |   |   |   |   |   |
|-------------------|------------------------|--|--------------------------|-----|-------------------------------|------------------------------------|-------------------------------|-----|-----|-----|---------|-----------------|---|---|---|---|---|---|---|
|                   |                        |  | min                      | max | min                           | max                                | Jun                           | Jul | Aug | Sep | foliage | flowers         |   |   |   |   |   |   |   |
| Lupine Marigold   | Tutti Frutti           | pink, yellow, rose, purple                       | 17                       | 41  | 3 x 1                         | 17 x 2 <sup>3</sup> / <sub>4</sub> | *                             | *   | *   | *   | *       | *               | * | * | * | * | * | y | y |
|                   | Cottage Red            | red  | 16½                      | 30  | 1                             | 2                                  | *                             | *   | *   | *   | *       | *               | * | * | * | * | * | n | n |
| Marigold, African | Capriccio              | gold, deep orange                                | 27                       | 32  | 1¼                            | 4¼                                 |                               |     |     | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, African | Cempoalxochitl         | yellow & orange striped                          | 14                       | 34  | 1½                            | 2¼                                 |                               |     |     | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, African | Flagstaff              | dark orange                                      | 16                       | 26  | 1¾                            | 4                                  |                               |     |     | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, African | Perfection Mixture     | yellow, gold, orange                             | 10½                      | 19  | 2                             | 4                                  |                               |     |     | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, French  | Aurora Fire            | orange w/mahogany overtones, mahogany w/orange   | 3                        | 13  | 1¼                            | 2½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, French  | Aurora Light Yellow    | lemon yellow                                     | 3                        | 10½ | 1¼                            | 2½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, French  | Disco Granada          | gold w/red markings, gold center                 | 3¼                       | 9   | 1                             | 2½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, French  | Durango Mix Outback    | yellow, orange, red/yellow & red/orange bicolors | 3½                       | 14  | ¾                             | 1                                  | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, French  | Little Hero Gold       | gold   | 1¾                       | 9½  | 1                             | 2½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, French  | Mars                   | mahogany w/gold centers                          | 4½                       | 18½ | 1                             | 2                                  | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Marigold, Signet  | Starfire               | orange, gold, red, yellow                        | 4½                       | 20  | ¾                             | 1¼                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Melampodium       | Lemon Delight          | light yellow w/dark yellow centers               | 1½                       | 11½ | ½                             | 1                                  | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Mexican Hat       | Red Midget             | mahogany w/yellow edges, green cone center       | 10                       | 26  | ¾                             | 2¼                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |   |
| Nasturtium        | Black Velvet           | deep red, mahogany                               | 10                       | 14  | 1¾                            | 2¼                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nasturtium        | Caribbean Cocktail     | rosy pink, yellow, orange                        | 1                        | 13  | 2                             | 2½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nasturtium        | Fiery Festival         | brilliant orange red                             | 1                        | 26½ | 2½                            | 3                                  | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nasturtium        | Primrose Jewel         | yellow   | 1                        | 14½ | 2¼                            | 2½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nasturtium        | Vesuvius               | salmon pink w/dark red markings                  | 3                        | 24  | 1½                            | 2¼                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nasturtium        | Whirlybird Cherry Rose | rose   | 3                        | 18½ | 1¾                            | 2½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nemesia           | Sunsatia Cranberry     | red  | *                        |     |                               |                                    | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nemesia           | Sunsatia Lemon         | yellow   |                          |     |                               |                                    | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nicotiana         | Marshmallow            | rose, pink, white                                | 36                       | 55  | ½                             | 1.5                                | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nicotiana         | Perfume Deep Purple    | dark purple                                      | 6½                       | 21  | 2                             | 4                                  | *                             | *   | *   | *   | *       | *               | * | * | * | * | n | n |   |
| Nicotiana (alata) | Sensation White        | creamy white                                     | 21                       | 49  | ¾                             | 2                                  |                               | *   | *   | *   | *       | *               | * | * | * | * | n | y |   |
| Ornamental Millet | Jester                 | burgundy, purple                                 | 22                       | 19  |                               |                                    |                               |     |     |     |         |                 |   | * | * | * | n | n |   |
| Ornamental Millet | Purple Baron           | burgundy   | 23                       | 34  | 5 x 1                         | 11 x 1½                            |                               |     |     |     |         |                 |   | * | * | * | n | y |   |
| Osteospermum      | Glistening White       | white w/deep blue centers                        | 6                        | 14  | 1½                            | 3½                                 | *                             | *   | *   | *   | *       | *               | * | * | * | * | y | y |   |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, ⊗ indicates 50% bloom, and ⊕ indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments  |
|----------------------------|---------|---------|---------|-----------------|---------|--------|---|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |   |
| quantity                   | quality |         |         |                 |         |        |   |
| 3                          | 4       | 4       | 3       | n               | y       | n      | Vigorous upright spikes great for backgrounds, very nice mix of flower colors, attractive in late season  |
| 4                          | 4       | 3       | 4       | y               | y       | y      | Airy billowy marigold that needs room, draped over garden bed, swallowed up neighbors, intense blooms covered plant, provided quite a display, very ornamental  |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Largest double-flowered African marigold we've grown, huge blooms cover plant, interesting fluted edges, outstanding display well worth testing in the back of borders  |
| 2                          | 2       | 2       | 2       | sl              | y       | y      | Nice bushy marigold covered with medium-sized flowers, slightly reflexed petals, needs deadheading  |
| 3                          | 4       | 3       | 3       | y               | y       | y      | Attractive large flowers with fluted petals, needs deadheading through season, intense color, probably the darkest orange marigold we have seen, very attractive  |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Very large flowers cover the plant nearly all season, excellent mix of colors, little maintenance required  |
| 4                          | 3       | 3       | 3       | y               | n       | y      | Brilliant mix of dark and light color patterns on petals, very attractive, slight variation in height but not unattractive, needs deadheading late in the season, bushy, fills in well                        |
| 4                          | 3       | 3       | 3       | sl              | n       | y      | Outstanding blooms, great in mass plantings at the edges of beds, needs deadheading late in season  |
| 4                          | 4       | 4       | 4       | sl              | n       | y      | Dwarf selection, single-petaled, blooms early and all season until frost, excellent show, no maintenance  |
| 3                          | 3       | 3       | 3       | y               | n       | y      | Very good color display all season, needs a small amount of deadheading, uniform height   |
| 2                          | 2       | 2       | 2       | y               | n       | y      | Extra dwarf, not as floriferous as other marigolds, lots of open spaced between plants needs deadheading  |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Stunning in mass plantings, bushy mounds covered with blooms, very attractive and colorful nearly all summer  |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Outstanding mounds of starry flowers, solid display of color, excellent in mass planting at the edges of beds   |
| 4                          | 4       | 4       | 4       | n               | n       | y      | Neat mounds covered with daisy-like blooms, needs close spacing, Fleuroselect Quality Award   |
| 2                          | 3       | 3       | 3       | sl              | y       | n      | Tall, open, sometimes floppy stems topped with unusual flowers, petals reflexed beneath large upright central green cone, would work well as a filler with Rudbeckias and others, still beautiful after frost |
| 3                          | 3       | 3       | 3       | y               | y       | n      | Abundant blooms, very striking and unusual, flowers hidden beneath foliage  |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Miniature leaves, flowers held just above the foliage, showy  |
| 3                          | 3       | 3       | 3       | y               | y       | n      | Bright showy colors, plenty of blooms above the foliage   |
| 3                          | 3       | 3       | 3       | y               | y       | n      | Trailing, plenty of flowers above foliage, very showy, excellent color, some double flowers, fluted edges   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Very attractive flower color, excellent vegetative growth, lots of flowers hidden by foliage  |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Mounds of foliage covered with huge blooms, huge flowers, showy, great color  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Nice color early in season, leggy and scraggly later  |
| 2                          | 2       | 2       | 2       | sl              | y       | n      | Nice color early in season, faded by mid-August, might be better with serious deadheading   |
| 3                          | 1       | 2       | 2       | y               | y       | n      | Tall annual for back of borders, sprawling branches covered with flowers and buds, old flowers are brown, flower stalks have mixed colored blooms, plant catches your eye because of its size                 |
| 4                          | 4       | 3       | 4       | y               | y       | n      | Tall with very unusual-colored blooms, outstanding as background plant in borders, delicate fragrance in evening, AAS Bedding Plant Award Winner 2006   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Tall with clusters of white flowers, excellent for background in borders  |
|                            |         | 2       | 2       | n               | n       | y      | Did not reach advertised height and hidden by adjacent flowers, just beginning to form flower stalks in late August, yellowish foliage early in season was not attractive                                     |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Flower spikes develop late in season, excellent deep purple foliage and flowers   |
| 2                          | 2       | 1       | 2       | n               | y       | n      | Few flowers all season, ragged late in the season, needs deadheading especially late in the season, flowers close in cold wet weather   |

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Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name  | Cultivar                | Flower color                                     | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |     | Flowering period <sup>y</sup> |                  |                  |                  |                  |                  |                  |   |   |  |  |  | Frost tolerance |  |
|--------------|-------------------------|--|--------------------------|-----|-------------------------------|-----|-------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|---|--|--|--|-----------------|--|
|              |                         |  | min                      | max | min                           | max | Jun                           | Jul              | Aug              | Sep              | foliage          | flowers          |                  |   |   |  |  |  |                 |  |
| Osteospermum | Lemon Symphony          | yellow   | *                        |     |                               |     | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Osteospermum | Orange Symphony         | light orange                                     | *                        |     |                               |     | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Osteospermum | Passion Mix             |  | 6                        | 16  | 15                            | 3   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Osteospermum | Peach Symphony          | peach  | *                        |     |                               |     | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Osteospermum | Tradewinds Deep Purple  | dark purple                                      | *                        |     |                               |     | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Osteospermum | Tradewinds Light Purple | lavender & purple                                | *                        |     |                               |     | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Osteospermum | Tradewinds Pink         | lavender pink                                    | *                        |     |                               |     | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Palafoxia    |                         | lavender pink                                    | 4                        | 18½ | ½                             | 1¼  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | n | n |  |  |  |                 |  |
| Pansy        | Accord Daffodil Mixture | orange, white, yellow, gold clear face           | 4                        | 13  | 1¼                            | 2½  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Accord Peace Mixture    | white, blue, burnt orange                        | 4                        | 10½ | 1½                            | 3   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Acquarelle              | yellow, rose, white, some clearfaced             | 4                        | 12  | 1¾                            | 3   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Atlas Windjammer Mix    | orange, purple, lavender, white w/lavender face  | 4                        | 11  | 1¼                            | 3   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Bronze Tone             | burnt orange edged in yellow w/mahogany face     | 4                        | 8¼  | 1                             | 2   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Brunig                  | mahogany face edged in bright yellow             | 3¼                       | 11½ | 1                             | 2   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Chalon Supreme Mix      | Cream, lavender, yellow, mahogany w/dark face    | 2                        | 12  | 1                             | 2   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Coronation Gold         | gold, some mahogany whiskers                     | 3                        | 10½ | ¾                             | 2½  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Fama Orange             | orange   | 10½                      | 13  | 1¼                            | 2½  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Karma Rose              | dark rose  | 4                        | 9   | 1½                            | 2¼  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Majestic Patricia       | creamy yellow & lavender w/rose or lavender face | 4                        | 10  | 1½                            | 2¾  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Pansy        | Swiss Giant Violet Blue | deep violet                                      | 5                        | 18½ | 1¼                            | 2½  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Penstemon    | Violet Dusk             | rosy lavender                                    | 9                        | 19  | ¾                             | 1   |                               | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | n | n |  |  |  |                 |  |
| Pentas       | Lavender Light          | pink   | 11                       | 14½ | ¼                             | ¼   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | n | n |  |  |  |                 |  |
| Petunia      | Carpet Pink Morn        | pink w/white centers                             | 2                        | 15  | 2                             | 3¼  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Petunia      | Cloud Snow              | white  | 3                        | 16½ | 3                             | 5   | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | n | n |  |  |  |                 |  |
| Petunia      | Double Cascade Blue     | deep purple                                      | 5½                       | 15  | 2¾                            | 3¼  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Petunia      | Dreams Burgundy Picotee | burgundy w/white edges                           | 5                        | 15  | 2                             | 3¼  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |
| Petunia      | Dreams Rose Picotee     | rose w/white edges                               | 7                        | 15½ | 2                             | 3½  | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼              | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | ☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼☼ | y | y |  |  |  |                 |  |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> ☼ indicates just starting to bloom, ☼ indicates 50% bloom, and ☼ indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments  |
|----------------------------|---------|---------|---------|-----------------|---------|--------|---|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |   |
| quantity                   | quality |         |         |                 |         |        |   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Bloomed well all season, spread well in baskets   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Excellent color in baskets, fills in well and produced lots of blooms all season  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Great color, needs closer spacing for better mass effect  |
| 2                          | 3       | 3       | 3       | n               | y       | n      | Beautiful addition to baskets early in the season, leggy and ragged late in season  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Intensely colored petals, small flowers but lots of them, great bushy displays fill containers  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Great two tone effect, nice bushy plants fill in containers well  |
| 2                          | 2       | 3       | 2       | n               | n       | n      | Not as ornamental as other Osteospermum, seemed to have a lot of dead foliage, more so than others tested   |
| 2                          | 2       | 2       | 2       | sl              | y       | n      | Bushy with tufts of flowers, needs close spacing and deadheading, best used as filler   |
| 2                          | 2       | 2       | 2       | y               | y       | y      | Beautiful well-balanced mix of colors, blooms all summer until snowfall, no maintenance, other mixes more showy   |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Mix of mostly pastel colors, so-so performance  |
| 2                          | 2       | 3       | 2       | y               | y       | y      | Combination of mostly pastel, nothing special, some with frilly edges   |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Excellent combination of colors, some flowers with ruffled edges, most with dark faces  |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Interesting color combination, works well with Rudbeckias and other gold/brown flowers, flowers abundantly, no maintenance  |
| 2                          | 3       | 3       | 3       | sl              | y       | y      | Interesting sharply contrasting colors on petals  |
| 2                          | 2       | 2       | 2       | y               | y       | y      | Old-fashioned mix with frilly edges on petals, very nice effect, not enough flowers   |
| 4                          | 4       | 3       | 4       | y               | y       | y      | Huge abundant blooms, mostly solid colors, very bright, continuous color all season, Tolerates light frost  |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Attractive blooms, flowers and foliage tolerate light frost, good color and size all season, best orange pansy in the trials  |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Outstanding color, abundant blooms, very nice performer all season  |
| 2                          | 2       | 2       | 2       | sl              | y       | y      | Large flowers, attractive bicolor, not as attractive as previous years  |
| 3                          | 3       | 3       | 3       | sl              | y       | y      | Outstanding velvety petals, a few plants with yellow markings take away from rich velvety appearance  |
| 1                          | 1       | 1       | 1       | n               | n       | n      | Smaller than advertised, tiny flowers not showy, get lost, needs close spacing and mass planting  |
| 3                          | 3       | 2       | 3       | n               | y       | n      | Surprisingly fast growth once planted outdoors, bloomed well all summer in raised beds  |
| 3                          | 3       | 2       | 2       | y               | n       | n      | Beautiful two-toned blooms, susceptible to Sclerotinia, one of the most diseased petunias this season   |
| 4                          | 4       | 2       | 3       | n               | n       | n      | Huge flowers on mounding plants, one of the best white petunias we've tried, needs some deadheading, some Sclerotinia late in the season  |
| 4                          | 3       | 3       | 3       | y               | n       | n      | Outstanding huge blooms, very frilly flowers on strong upright stems, held up well all season, very little evidence of Sclerotinia  |
| 4                          | 2       | 4       | 3       | y               | n       | n      | Outstanding, large showy flowers, little evidence of Sclerotinia, variable "picotee" markings, most flowers have no white edges, others intensely marked, mostly not picotee but still nice |
| 4                          | 4       | 4       | 4       | y               | n       | n      | Outstanding performer, huge showy flowers with stunning white picotee edges, little evidence of Sclerotinia, holds up well in cold wet weather  |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.

Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name   | Cultivar                           | Flower color   | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |     | Flowering period <sup>y</sup> |     |     |     |     |     |     |     |     |     |         |         | Frost tolerance |  |
|---------------|------------------------------------|--|--------------------------|-----|-------------------------------|-----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|-----------------|--|
|               |                                    |  | min                      | max | min                           | max | Jun                           | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | foliage | flowers |                 |  |
| Petunia       | Dreams Sky Blue                    | lavender fading to light lavender in centers             | 3                        | 13  | 1½                            | 3¾  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | n       | y               |  |
| Petunia       | Easy Wave® Pink                    | pink w/white throat                                      | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Easy Wave® Salmon                  | salmon pink  | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | n       | y               |  |
| Petunia       | Easy Wave® White                   | white  | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Easy Wave® Blue                    | deep lavender w/darker throat                            | 2                        | 14  | 1¼                            | 2¾  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Easy Wave® Red                     | dark red fading w/age                                    | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Easy Wave® Shell Pink Imp.         | light pink   | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | n       | n               |  |
| Petunia       | Fantasy Crystal Red                | pink w/rose throat & burgundy markings                   | 3                        | 10½ | 1                             | 2   | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | n       | n               |  |
| Petunia       | Frillytunia White                  | white  | 4                        | 13  | 2¼                            | 3½  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Frost Mixture                      | purple, rose, red, coral w/white picotee edges           | 7                        | 22  | 2¾                            | 3¾  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Limbo Violet                       | violet   | 2½                       | 11½ | 2¼                            | 3¾  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | n       | y               |  |
| Petunia       | Madness Lavender Glow              | lavender w/lighter centers                               | 5                        | 14  | 2                             | 3   | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Madness Rose Morn                  | rose w/cream centers                                     | 4                        | 14½ | 1¼                            | 3½  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Madness Salmon Morn                | salmon   | 5                        | 18½ | 2                             | 3   | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Merlin Blue Morn                   | purple w/light purple throat                             | 4                        | 18  | 1½                            | 2¾  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Primetime Twilight Mixture         | lavender, pink, pink w/white throat                      | 3                        | 19  | 1¾                            | 2¾  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Stars & Stripes                    | red w/white stripe, purple, white, purple w/white stripe | 5                        | 18  | 3                             | 3¾  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | n               |  |
| Petunia       | Tidal Wave Purple                  | purplish pink  | 6                        | 28  | 1½                            | 2½  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Tidal Wave Silver                  | silvery lavender w/purple veins & throat                 | 9½                       | 31½ | 1¼                            | 2½  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Ultra Pastel Pink                  | pastel pink w/rose overtones & cream throat              | 4                        | 13½ | 1¾                            | 4   | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | n               |  |
| Petunia       | Whispers Appleblossom              | light pink   | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Petunia       | Whispers Red                       | red  | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Phlox         | Intensia Lavender Glow             | lavender   | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Phlox         | Intensia Neon Pink                 | pink   | ✿                        |     |                               |     | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Phlox, Garden | 21 <sup>st</sup> Century Blue Star | rosy burgundy fading to pink at edges                    | 2                        | 9¾  | ¾                             | 1¼  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Phlox, Garden | 21 <sup>st</sup> Century Rose Star | pink w/deep rose centers                                 | 2                        | 13  | 1                             | 1¼  | ✿✿                            | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | y       | y               |  |
| Phlox, hybrid | Peppermint Candy                   | cream w/red edges & stripes                              | 3                        | 17  | ¾                             | 1¼  | ✿                             | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿  | ✿✿      | n       | n               |  |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. ✿ = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> ✿ indicates just starting to bloom, ✿ indicates 50% bloom, and ✿ indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments  |
|----------------------------|---------|---------|---------|-----------------|---------|--------|---|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |   |
| quantity                   | quality |         |         |                 |         |        |   |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Outstanding mounds of abundant flowers, very nice color, needs deadheading, Sclerotinia late in season  |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Very nice trailing habit, looks good all summer   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Outstanding color, spreads well to form solid mats of color, also recommended for containers and baskets  |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Small flowers hold up well all season, great contrast in vivid multicolor baskets, needs some deadheading   |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Outstanding color, great spread, moderate-sized flowers, some sclerotinia late in the season  |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Needs significant deadheading, new flowers great but fade as get old, not attractive, small flowers   |
| 2                          | 2       | 3       | 2       | y               | n       | n      | Beautiful small-flowered cascading color early in season, died out mid-August; there are better petunias  |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Petite mounds covered with two-toned flowers, needs close spacing, excellent performance all summer, some deadheading needed late in summer, still great show till frost                      |
| 4                          | 3       | 3       | 3       | y               | n       | n      | Huge blooms, not as heavily fringed as others in "Frillytunia" series, disappointing, needs deadheading late in season, some Sclerotinia  |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Interesting mix of frilly-edged petunias, some picotee, others solids, will match just about anything   |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Attractive early in season, great uniform color, better performers exist later in season, AAS bedding plant award 2004, Fleuroselect Quality Award winner                                     |
| 3                          | 3       | 2       | 2       | y               | n       | n      | Good early season display, plants died from Sclerotinia, needs deadheading  |
| 3                          | 3       | 3       | 3       | y               | n       | n      | Excellent display early, susceptible to Sclerotinia, many plants died early, nice two-toned flower color  |
| 4                          | 4       | 2       | 3       | y               | n       | n      | Nice two-toned flowers, some Sclerotinia rot late in season, needs deadheading  |
| 4                          | 3       | 3       | 3       | y               | n       | n      | Outstanding flower color, very striking and showy, fills in well forming mounds, AAS flower award 2003, some Sclerotinia late in season   |
| 4                          | 4       | 4       | 4       | y               | n       | n      | Smaller flowers than many other petunias, unusual mix of pastel colors with solids and dark-edged two tones, needs deadheading late in season, lavender flowers smaller than pinks in the mix |
| 4                          | 4       | 2       | 3       | y               | n       | n      | Slightly ruffled, nice mix colors, fills in well, susceptible to Sclerotinia late in season, tolerates light frost  |
| 4                          | 4       | 4       | 4       | y               | n       | n      | Huge mounds of color, no maintenance, no pests and no evidence of Sclerotinia, well worth growing   |
| 4                          | 4       | 4       | 4       | sl              | n       | n      | Outstanding mounds of color, fills in the entire bed, AAS flower award 2002, AAS flower award 2003, Fleuroselect Quality Mark winner, tolerates light frosts                                  |
| 4                          | 3       | 3       | 3       | y               | n       | n      | Attractive huge abundant blooms, needs plenty of deadheading, Sclerotinia late in the season  |
| 3                          | 2       | 3       | 3       | y               | n       | n      | Beautiful pastel addition to baskets in early summer, fades in late summer  |
| 2                          | 2       | 3       | 2       | y               | n       | n      | Medium-sized flowers on cascading branches, nice growth, not the best red petunia for baskets   |
| 4                          | 4       | 4       | 4       |                 |         |        | Great flower show all summer even in cold wet weather, excellent compliment to petunias   |
| 4                          | 4       | 3       | 4       | n               | y       | n      | Outstanding addition to baskets, large colorful clusters of flowers, holds up well all season   |
| 2                          | 2       | 2       | 2       | sl              | y       | n      | Many bare spots, did not seem to thrive, beautiful star pattern on petals   |
| 3                          | 3       | 2       | 3       | y               | y       | n      | Some plants died, remainder grew well, formed bushy mounds of color, yellow foliage in mid-August, blooming and very ornamental long after other flowers have died of frost                   |
| 1                          | 1       | 1       | 1       | n               | n       | n      | Grew well in containers in past years, did poorly in ground beds, tiny mounds with poorly colored flowers, plants died out by end of season, Fleuroselect Quality Award winner                |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.



Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name        | Cultivar                      | Flower color   | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |         | Flowering period <sup>y</sup> |     |     |     |         |         |   |   |   |   |   |   | Frost tolerance |  |
|--------------------|-------------------------------|--|--------------------------|-----|-------------------------------|---------|-------------------------------|-----|-----|-----|---------|---------|---|---|---|---|---|---|-----------------|--|
|                    |                               |  | min                      | max | min                           | max     | Jun                           | Jul | Aug | Sep | foliage | flowers |   |   |   |   |   |   |                 |  |
| Plectranthus       | Silver Shield™                |  | 6                        | 14  |                               |         |                               |     |     |     |         |         |   |   |   |   | n |   |                 |  |
| Poppy, Shirley     | Cedric Morris                 | pastels  | 6                        | 13  | 1                             | 2½      | *                             | *   | *   | *   | *       |         |   |   |   |   | n | n |                 |  |
| Portulaca          | Margarita Peppermint          | rosy pink w/dark pink flecks, deep pink  | 3¼                       | 7   | ¼                             | 1¾      | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Portulaca          | Sundial Mango                 | orange red   | 2                        | 5½  | ¾                             | 1½      | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Rudbeckia          | Autumn Colors                 | two-toned mahogany w/ mahogany centers, some yellow tipped, yellow streaked petals | 9                        | 23  | 3                             | 5       |                               | *   | *   | *   | *       | *       | * | * | * | * | n | y |                 |  |
| Rudbeckia          | Cordoba                       | mahogany w/gold tips   | 8½                       | 13  | 2¼                            | 3¾      |                               | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Rudbeckia          | Hot Chocolate                 | burgundy w/gold tips, brown centers  | 10½                      | 17  | 2                             | 5       |                               | *   | *   | *   | *       | *       | * | * | * | * | y | n |                 |  |
| Rudbeckia          | Maya                          | gold   | 5                        | 16½ | 2                             | 2½      |                               | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Salvia, Mealy-cup  | Evolution                     | violet   | 16                       | 25½ | ¾ x ¼                         | 6 x 1½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Salvia, Mealy-cup  | Strata                        | silver & lavender bicolor  | 11                       | 18  | 1 x ½                         | 6¼ x 1¼ | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Salvia, Mealy-cup  | Victoria White                | silvery white  | 9                        | 26½ | 1½ x ¾                        | 5½ x 1¼ | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Salvia, Mealy-cup  | Gruppenblau                   | royal blue   | 20                       | 33¼ | ¾ x ½                         | 10¾ x 1 | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | y |                 |  |
| Salvia, Scarlet    | Picante Light Purple          | two-toned lavender & purple  | 6                        | 16  | 1¼ x ¾                        | 6 x 3¾  | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Salvia, Scarlet    | Red Arrows                    | scarlet  | 7                        | 19  | 2 x 1½                        | 5½ x 4  | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Salvia, Scarlet    | Red Hot Mama                  | red  | 16                       | 25  | 2 x 1½                        | 4¼ x 4  |                               |     |     | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Shasta Daisy       | Amelia                        | white w/yellow centers   | 19                       | 31  | 2                             | 4¾      |                               |     |     | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Shasta Daisy       | Giant Marconi Double          | white w/yellow centers   | 23                       | 31½ | 1½                            | 3¾      |                               |     |     | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Shoo Fly Plant     | Splash of Cream               | blue   | 16                       | 40  | ½                             | 1½      | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Snapdragon, Summer | Angel Mist Basket Purple      | purple   | *                        |     |                               |         |                               |     |     |     | *       | *       | * | * | * | * | n | n |                 |  |
| Snapdragon         | Double Madame Butterfly Mixed | white, pink, rose, red, peach  | 19                       | 32  | 2½                            | 4½      | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Snapdragon         | Freesong Pink                 | pink   | 13                       | 21  | 3 x 1½                        | 9 x 2½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Snapdragon         | Golden Monarch                | yellow   | 8                        | 26½ | 5 x 2                         | 8½ x 2½ | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Snapdragon         | La Bella Yellow               | yellow   | 11                       | 23  | 2½ x 2                        | 8 x 2½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Snapdragon         | Purple & White Bells          | red/white bicolor  | 1                        | 6   | 1½ x 1                        | 3¼ x 2  | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Snapdragon         | Scarlet Giant                 | red  | 16                       | 37½ | 3½ x 1                        | 10 x 3  | *                             | *   | *   | *   | *       | *       | * | * | * | * | y | y |                 |  |
| Snapdragon         | Snapshot Mix                  | red, yellow, orange, rose, white   | 3                        | 11  | 1½                            | 2½      | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |
| Snapdragon         | Summer Skies                  | lavender   | 2                        | 9¼  | ¼                             | ¼       | *                             | *   | *   | *   | *       | *       | * | * | * | * | n | n |                 |  |

<sup>w</sup> if the plant was uniform in height, the height is recorded under max only. \* = plants grown in containers or hanging baskets, limited data was collected on plant height, flower size and flowering dates.

<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, \* indicates 50% bloom, and \* indicates full bloom.



| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments  |
|----------------------------|---------|---------|---------|-----------------|---------|--------|---|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |   |
| quantity                   | quality |         |         |                 |         |        |   |
|                            |         | 4       | 4       |                 | y       | y      | Grew out of control in containers in 2004, In ground beds filled in well and produced a solid mass of silvery foliage and no flowers, very similar to Dusty Miller, very attractive |
| 1                          | 1       | 1       | 1       | n               | y       | n      | Grew well early, died out in midseason, may be longer-lived when direct seeded, beautiful pastel flowers early, not worth the effort unless something else is planted in midseason  |
| 2                          | 3       | 3       | 2       | s               | n       | n      | Spread better in raised beds than in ground beds, nice clumping mounds, needs close spacing   |
| 2                          | 3       | 3       | 3       | n               | n       | n      | Very tight compact mounds covered with tiny flowers, needs close spacing and sunny spots  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Interesting mix of flower colors, nice addition to Rudbeckia choices, flowers and foliage tolerate light frost, Fleuroselect Quality Award winner                                   |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Outstanding short with very large blooms, great mix of dark and light-colored blooms  |
| 2                          | 2       | 2       | 2       | n               | y       | y      | Heat tolerant, large bicolor blooms, variable height, nice mix of dark and light-colored flowers  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Excellent dwarf with double and semidouble flowers, Fleuroselect Gold Medal winner, very showy  |
| 3                          | 3       | 3       | 3       | y               | y       | y      | First violet colored mealy-cup Salvia, shorter spikes than Victoria but distinct color is attractive and vibrant  |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Interesting spikes, great stems for cutting, dries well, not as showy as solid color Salvias, AAS flower award winner 1996  |
| 3                          | 3       | 3       | 3       | y               | y       | y      | Not as showy as Victoria, okay as filler or companion plant   |
| 4                          | 4       | 4       | 4       | sl              | y       | y      | Excellent tall spikes, great background plant, excellent as cut flower  |
| 4                          | 3       | 3       | 3       | n               | n       | n      | Attractive color, shorter clusters of flowers than other Salvias, needs close spacing, petals turn brown, unsightly when old, not as showy as other scarlet Salvias                 |
| 4                          | 4       | 3       | 3       | n               | n       | n      | Bright red spikes of flowers similar to Red Hot Mama but more compact, blooms well all season, needs some deadheading, showy  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | One of the tallest scarlet Salvias we have grown, great bushes covered with tall spikes, excellent background plant in mass plantings or alone for low borders                      |
| 3                          | 2       | 3       | 3       | n               | y       | y      | Huge blooms, floppy stems, late to bloom, many buds when frost hit  |
| 2                          | 3       | 3       | 3       | n               | y       | y      | Huge blooms, floppy stems, very uniform linear petals, not many flowers for the size of the plant   |
| 3                          | 2       | 1       | 2       | n               | n       | y      | Variegated leaves, not as vigorous as the green type, look sickly, do not grow to stature of species, lodging this year because of heavy rain                                       |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Interesting filler early in season, disappeared by mid-August   |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Excellent straight stems with ample length for cutting, very nice mix of colors, Azalea petals are very showy, completely double  |
| 3                          | 3       | 3       | 3       | sl              | y       | n      | Straight tall flower stalks with abundant blooms, great for cutting   |
| 2                          | 3       | 3       | 3       | n               | y       | n      | Tall yellow spikes from midseason onward, not as floriferous as other Snapdragons, good cut flower  |
| 4                          | 4       | 4       | 4       | y               | y       | n      | Beautiful clear butterfly-type blooms on tall stalks, great for cutting, solid masses of color  |
| 2                          | 2       | 2       | 2       | n               | n       | n      | Abundant mass of solid color early in season, very attractive flowers, needs deadheading for all-season display, very attractive dwarf Snapdragon                                   |
| 2                          | 3       | 2       | 2       | n               | y       | n      | Rich velvety red flowers on tall spikes, very showy in mass plantings, excellent height for cutting   |
| 3                          | 2       | 2       | 2       | n               | n       | y      | Dwarf carpet with a great mix of colors, needs deadheading to keep blooming   |
| 2                          | 2       | 2       | 2       | sl              | n       | n      | Similar to Linaria in growth and form, fills in well to form nice ground cover, makes nice filler in containers, some dieback late in season  |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.

Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name   | Cultivar               | Flower color                              | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |        | Flowering period <sup>y</sup> |       |       |       |         | Frost tolerance |  |   |   |
|---------------|------------------------|---|--------------------------|-----|-------------------------------|--------|-------------------------------|-------|-------|-------|---------|-----------------|--|---|---|
|               |                        |   | min                      | max | min                           | max    | Jun                           | Jul   | Aug   | Sep   | foliage | flowers         |  |   |   |
| Spanish Daisy |                        | white, pink w/yellow centers              | 1½                       | 11  | ¼                             | ½      | * * *                         | * * * | * * * | * * * | * * *   |                 |  | y | y |
| Statice       | Gold Coast             | yellow                                    | 15                       | 36  | 2 x 1½                        | 5¾ x 2 | * * *                         | * * * | * * * | * * * | * * *   |                 |  | y | y |
| Sunflower     | American Giants Hybrid | yellow w/brown centers                    | 90                       | 95  | 5½                            | 14½    |                               |       |       | * * * | * * *   |                 |  | n | n |
| Sunflower     | Bicentenary            | gold and bronze bicolored                 | 49                       | 80  | 3½                            | 8      |                               | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Double Dandy           | red w/burgundy centers                    | 14                       | 25  | 2                             | 5¼     | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Dwarf Yellow Spray     | yellow                                    | 21                       | 32½ | 2                             | 6      |                               |       | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Earthwalker            | mostly mahogany, gold w/brown centers     | 38                       | 68  | 5                             | 6      | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Jade                   | creamy lime w/light green centers         | 48                       | 67  | 4                             | 9      | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Moonshadow             | white w/tinge of rose, brown centers      | 24                       | 43  | 3                             | 3½     | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Peach Passion          | light orange-yellow                       | 18                       | 25  | 2½                            | 4½     |                               | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Prado Red              | burgundy, chocolate w/brown centers       | 29½                      | 42  | 2¼                            | 6¼     | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Summer Sunset Mix      | rose, yellow, mahogany w/brown centers    | 42½                      | 63  | 2½                            | 6      |                               | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Supermane              | golden yellow                             | 40                       | 53  | 3                             | 4¼     |                               | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Tarahumara             | yellow w/green centers                    | 40                       | 65  | 3                             | 8      |                               | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | The Bee's Knees        | gold w/brown centers                      | 25                       | 58  | 4¼                            | 7      | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sunflower     | Tiffany                | yellow w/orange highlights, brown centers | 29                       | 64  | 4                             | 7      |                               | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Sweet Alyssum | Snow Crystals          | white                                     | 1                        | 8   | ¼                             | ¼      | * * *                         | * * * | * * * | * * * | * * *   |                 |  | y | y |
| Sweet Pea     | Bijou Bush Mixed       | pink, white, red, lavender, rose, magenta | 13                       | 59  | 1½                            | 2      |                               |       |       | * * * | * * *   |                 |  | y | y |
| Sweet Pea     | Cuthbertson Mixture    | pink, white, red, lavender, rose, magenta | 27                       | 84  | 2                             | 2¼     |                               |       |       | * * * | * * *   |                 |  | y | y |
| Sweet Pea     | Explorer Mix           | pink, white, red, lavender, rose, magenta | 6                        | 22  | 1                             | 3      |                               | * * * | * * * | * * * | * * *   |                 |  | y | y |
| Sweet Pea     | Mammoth Series Mixed   | pink, white, red, lavender, rose, magenta | 33                       | 71  | 2                             | 2½     |                               |       |       | * * * | * * *   |                 |  | y | y |
| Sweet Peas    | Finest Mixed           | pink, white, red, lavender, rose, magenta | 27                       | 80  | 1½                            | 2      |                               |       |       | * * * | * * *   |                 |  | y | y |
| Tasselflower  | Harvest Mixture        | deep red-orange                           | 13¼                      | 35  | ¼                             | ¾      | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |
| Thunbergia    | Smoothie Apricot       | apricot                                   | *                        |     |                               |        | * * *                         | * * * | * * * | * * * | * * *   |                 |  | n | n |

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<sup>x</sup> if flower size was uniform, size is recorded under max only; sizes with an x, for example 12x3, indicate a spike flower type with the height x width.

<sup>y</sup> \* indicates just starting to bloom, \* indicates 50% bloom, and \* indicates full bloom.

| Plant ratings <sup>z</sup> |                |         |         | Recommended for |         |        | Comments   |
|----------------------------|----------------|---------|---------|-----------------|---------|--------|--|
| Flower quantity            | Flower quality | Foliage | Overall | Fragrance       | Cutting | Drying |  |
| 3                          | 3              | 2       | 3       | sl              | n       | n      | Tiny daisies with abundant needle-like petals, mounds of thin tangled stems and leaves topped with mass of flowers, immature flowers are pink, great in mass plantings           |
| 4                          | 4              | 4       | 4       | y               | y       | y      | Interesting mix of shades, lots of blooms, great for cutting or drying, flowers and foliage tolerate light frost, floppy stems   |
| 4                          | 4              | 4       | 4       | n               | n       | y      | Huge heads and very thick stems, great addition to the giant single-headed cultivars   |
| 3                          | 3              | 3       | 3       | n               | y       | y      | Large flowers, silver-green foliage, multiple heads, great for the back of borders   |
| 4                          | 3              | 3       | 3       | n               | y       |        | Unusual double petals, quite showy early in season, finished by midseason, dwarf, matured seeds  |
| 3                          | 3              | 3       | 3       | n               | y       | y      | Short plant completed blooms early, matured seeds, recommended for use as a short hedge in children's gardens and in containers  |
| 3                          | 3              | 3       | 3       | y               | y       | y      | Straight tall stems with good mix of colors  |
| 2                          | 2              | 2       | 2       | sl              | y       | y      | Unusual petal color, pollen free   |
| 2                          | 2              | 2       | 2       | n               | y       | y      | Very tall background plant, many small flowers on multiple branching stems, good mixed with other larger-flowering sunflowers, pollen free                                       |
| 1                          | 1              | 1       | 1       | n               | y       | n      | Some blooms with light colored discs, not a great show, small and few flowers  |
| 3                          | 3              | 3       | 3       | n               | y       | y      | Multi-flowering, branching plant with burgundy stems, covered with small heads that tend to lean downward at maturity, nice short sunflower, finished by mid-August              |
| 2                          | 2              | 2       | 2       | n               | y       | n      | Single, semidouble and double flowers, pollenless, ragged appearance late in season, showed some damage from Sclerotinia   |
| 3                          | 3              | 3       | 3       | n               | y       | n      | Best of this year's Sunflowers, excellent heads packed with petals in solid mound, most "asked about" sunflower in the garden, shorter than catalog description but a great show |
| 3                          | 3              | 3       | 3       | n               | y       | y      | Very attractive single-headed, medium-height Sunflower   |
| 4                          | 4              | 4       | 4       | n               | y       | n      | Some double blooms, extremely variable flower size, pollen free, strong stems for cutting, finishes early in garden, great show while it lasts                                   |
| 3                          | 3              | 3       | 3       | sl              | y       | y      | Bushy multiple branching flower stalks with medium-sized flowers, blooms well from mid-July onward, pollen free  |
| 4                          | 4              | 3       | 4       | y               | n       | n      | Nice carpet, uniform growth excellent for edging, very fragrant, Fleuroselect Gold Medal winner  |
| 2                          | 2              | 2       | 2       | y               | y       | n      | Fragrant dwarf covered with blooms, excellent color mix, great grown as edging with taller Sweet peas  |
| 4                          | 4              | 4       | 4       | y               | y       | n      | Reliable, tall, covered in blooms, extremely fragrant, best tested for amount and quality of blooms  |
| 3                          | 4              | 4       | 3       | y               | y       | n      | Short, covered in fragrant blooms, excellent cut flower  |
| 3                          | 3              | 3       | 3       | y               | y       | n      | Tallest this year, outgrew the trellis, excellent color mix with abundant flowers  |
| 3                          | 3              | 3       | 3       | y               | y       | n      | Very good flower mix and fragrance, good cut flower  |
| 3                          | 3              | 3       | 3       | n               | n       | n      | Interesting tufted flowers looks a lot like Hawkweed, low foliage topped with floppy, airy stems and many clusters of blooms, seeds mature in mid-August                         |
| 2                          | 3              | 3       | 3       | n               | n       | n      | Showy climber and trailer, excellent in mixed baskets  |

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Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name           | Cultivar                   | Flower color                              | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |     | Flowering period <sup>y</sup> |     |     |     |         |         |   |   |   |   |   |   | Frost tolerance |   |
|-----------------------|----------------------------|---|--------------------------|-----|-------------------------------|-----|-------------------------------|-----|-----|-----|---------|---------|---|---|---|---|---|---|-----------------|---|
|                       |                            |   | min                      | max | min                           | max | Jun                           | Jul | Aug | Sep | foliage | flowers |   |   |   |   |   |   |                 |   |
| Veridium              | Exotic                     | orange                                    | 24                       | 34  | 2                             | 3½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Babylon Blue               | lavender                                  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Babylon Light Blue         | lavender                                  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Babylon Neon Rose          | rose pink                                 | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Babylon White              | white                                     | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Peaches and Cream          | shades of peach                           | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Superbena Burgundy         | red                                       | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Superbena Dark Blue        | lavender                                  | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Superbena Large Lilac Blue | lilac                                     | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Temari Bright Pink         | pink                                      | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Temari Patio Red           | red                                       | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena               | Turkana Scarlet            | Scarlet                                   | *                        |     |                               |     | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena, Garden       | Quartz Burgundy Eye        | burgundy w/white center                   | 5                        | 11½ | ¼                             | ¼   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena, Garden       | Quartz Silver              | very pale silvery lavender, nearly white  | 3                        | 13½ | ½                             | 2   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena, Garden       | Snowy River                | white                                     | 2½                       | 17  | ¼                             | ¼   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena, Garden       | Mango                      | peach shades                              | 6                        | 9   | ¾                             | 2¾  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Verbena, Moss         | Lavender Mist              | lavender, white                           | 11                       | 26  | ¼                             | ¼   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Vinca                 | First Kiss Blueberry       | lavender                                  |                          |     |                               |     |                               |     |     |     |         |         |   |   |   |   |   |   | n               | n |
| Vinca Vine            | Wojo's Gem                 |   | *                        |     |                               |     |                               |     |     |     |         |         |   |   |   |   |   |   | n               | n |
| Viola                 | Bilbo Baggins              | lavender/yellow bicolor w/ mahogany face  | 2½                       | 10½ | ¾                             | 1¼  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Viola                 | Eye of the Tiger           | yellow w/brown markings                   | 3                        | 12  | ¼                             | 1½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Viola                 | Penny Primrose             | white w/yellow center & mahogany whiskers | 3                        | 10  | 1                             | 1¼  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Viola                 | Penny Violet               | violet                                    | 2                        | 13  | ¾                             | 1½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Viola                 | Sorbet Coconut Swirl       | lavender w/cream centers, purple whiskers | 2                        | 14  | 1                             | 1½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Viola                 | Sorbet Orange Delight      | light orange, mahogany whiskers           | 4                        | 9   | ¾                             | 1½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Viola                 | Sorbet Orange Duet         | light orange/purple bicolor               | 7                        | 14  | ¾                             | 1½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | y               | y |
| Wildflower Mix        | Sunburst Ground cover      | mixed                                     | 6                        | 26  | ½                             | 3   |                               |     |     |     |         |         |   |   |   |   |   |   | n               | y |
| Zinnia                | Short Stuff Gold           | creamy gold                               | 9                        | 14½ | 1¾                            | 3   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | n               | n |
| Zinnia (angustifolia) | Tropic Snow                | white w/yellow centers                    | 7                        | 20  | ½                             | 1¾  |                               |     | *   | *   | *       | *       | * | * | * | * | * | * | n               | n |
| Zinnia, Garden        | Carrousel Mix              | yellow/red, pink, coral, orange, apricot  | 9                        | 34  | 1½                            | 3½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | n               | n |

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<sup>y</sup> \* indicates just starting to bloom, \* indicates 50% bloom, and \* indicates full bloom.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments  |
|----------------------------|---------|---------|---------|-----------------|---------|--------|---|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |   |
| quantity                   | quality |         |         |                 |         |        |   |
| 4                          | 4       | 4       | 4       | n               | y       | n      | Tall floppy stems with brilliant flowers, needs lots of room to spread  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Excellent color and size of flowers, works well with other flowers in mixed baskets   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Large clusters of flowers add great color all season, Needs some deadheading  |
| 2                          | 2       | 3       | 2       | n               | n       | n      | Not the most vigorous in baskets, few flowers visible, effect is not striking in mixed baskets  |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Excellent for contrast in colorful baskets, produced plenty of flowers in medium-sized clusters   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Outstanding color, nice sized flower clusters   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Medium sized flower clusters, striking color, not the most prolific   |
| 3                          | 3       | 3       | 3       | n               | y       | n      | Excellent growth all summer, large vibrant flower clusters  |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Beautiful large flower clusters, great addition to baskets all season   |
| 3                          | 3       | 3       | 3       | n               | n       | n      | Large clusters of flowers with interesting two-toned effect, very ornamental all season   |
| 4                          | 4       | 3       | 4       | n               | n       | n      | Brilliant color, best basket Verbena tested this summer, produced plenty of flowers all season  |
| 2                          | 3       | 3       | 3       | n               | y       | n      | Vibrant intense color, adds some brilliance to baskets, large but few flower clusters   |
| 3                          | 2       | 3       | 3       | y               | y       | n      | Small flower clusters, needs deadheading, outstanding flower display in warm summer, very attractive brilliant color with eye                         |
| 2                          | 2       | 3       | 2       | n               | y       | n      | Better cultivars are available, lacked fullness of blooms and great show of other verbenas, very nice color, needs constant deadheading for best show |
| 2                          | 3       | 3       | 3       | n               | y       | n      | Tiny blooms, not very showy in mass plantings, best as filler with other larger specimen flowers  |
| 1                          | 2       | 2       | 1       | sl              | n       | n      | Very few flowers, poor display nearly all season, needs deadheading for best show   |
| 3                          | 3       | 3       | 3       | y               | y       | n      | Small clusters of billowy flowers, plants covered with blooms, nice display all season, Tolerates light frost   |
| 1                          | 1       | 1       | 1       | n               | n       | n      | Did not grow well, no branching, few flowers on top of single stems, poor show in sun and shade   |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Vines reached impressive length by end of season, but too sparse to have an impact, nice variegated foliage   |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Interesting flower color and pattern, petite blooms covered plant and bloomed from top to bottom nearly all summer                                    |
| 3                          | 4       | 3       | 3       | n               | y       | y      | Striking flowers, plants remain small, need close spacing to fill in bed  |
| 4                          | 4       | 3       | 4       | y               | y       | y      | Mountains of tiny flowers cover the foliage, very attractive, no maintenance, great color all season  |
| 4                          | 3       | 3       | 3       | sl              | y       | y      | Excellent uniform color, abundant blooms on mounding plants, no maintenance   |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Artistic flower patterns appear hand painted, superb display, choked with blooms all season through frost, tolerates light frost                      |
| 4                          | 4       | 4       | 4       | y               | y       | y      | Mounds of flowers, shorter this year probably because of summer heat, excellent show all season, some deadheading late in season                      |
| 4                          | 4       | 4       | 4       | n               | y       | y      | Attractive, unusual bicolor flowers, older flowers fade slightly, huge mounds of flowers, no maintenance, Flueroselect Gold Medal winner 2003         |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Mix contains cultivars rather than wildflowers, greatest color from California Poppies, looks bad in cool cloudy weather                              |
| 4                          | 4       | 4       | 4       | n               | n       | y      | Compact flowers with uniform color, variable height and flower size this season, looks ragged in bed when planted in masses                           |
| 2                          | 2       | 3       | 2       | n               | y       | y      | Still not the best angustifolia-type Zinnia, lots of foliage, few flowers, nice contrast of flowers and dark green foliage                            |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Tall upright stems with many sizes and colors of flowers, nice mix of solids and bicolors, singles, doubles   |

<sup>z</sup> 0 = dead; 1 = poor, diseased, rotten, or not showy; 2 = fair, other cultivars of its kind have been better; 3 = good, worth growing, nice ornamental; 4 = outstanding quality, the best of its kind grown in the garden.

Table 3. Results of tested annual flower cultivars for 2005, cont.

| Common name    | Cultivar            | Flower color   | Height (in) <sup>w</sup> |     | Flower size (in) <sup>x</sup> |     | Flowering period <sup>y</sup> |     |     |     |         |         |   |   |   |   |   |   | Frost tolerance |   |   |
|----------------|---------------------|--|--------------------------|-----|-------------------------------|-----|-------------------------------|-----|-----|-----|---------|---------|---|---|---|---|---|---|-----------------|---|---|
|                |                     |  | min                      | max | min                           | max | Jun                           | Jul | Aug | Sep | foliage | flowers |   |   |   |   |   |   |                 |   |   |
| Zinnia, Garden | Envy                | greenish yellow  | 18½                      | 33½ | 2                             | 3   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | *               | n | n |
| Zinnia, Garden | Magellan Coral      | coral pink   | 8                        | 19  | 2½                            | 4¼  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | *               | n | n |
| Zinnia, Garden | Magellan Orange     | orange   | 10                       | 16¼ | 2¼                            | 3¾  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | *               | n | n |
| Zinnia, Garden | Profusion Fire      | reddish orange   | 5                        | 14½ | 1¼                            | 2¾  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | *               | n | n |
| Zinnia, Garden | Zig Zag             | pink, rose, scarlet, yellow, orange, cream solids & bicolors | 19                       | 31  | 2½                            | 4½  | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | *               | n | n |
| Zinnia, Garden | Zinnita Mix         | orange, rose, white, red, yellow                             | 5                        | 13  | 1                             | 2   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | *               | n | n |
| Zinnia, Garden | Zowie! Yellow Flame | scarlet/rose centers w/ yellow tips                          | 19                       | 27½ | 1¼                            | 4   | *                             | *   | *   | *   | *       | *       | * | * | * | * | * | * | *               | n | n |

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Table 4 Results on cultivars completed three years testing.

| Name                    | Cultivar                 | Ave. <sup>z</sup> Overall Rating | Ave. <sup>z</sup> Foliage Rating | Ave. Min flower ht (in) | Ave. Max Flower ht (in) | Ave. Min Flower Size (in) | Ave. Max Flower Size (in) | Ave. <sup>z</sup> Flower Quality | Ave. <sup>z</sup> Flower Quantity |
|-------------------------|--------------------------|----------------------------------|----------------------------------|-------------------------|-------------------------|---------------------------|---------------------------|----------------------------------|-----------------------------------|
| African daisy           |                          | 3                                | 3                                | 8.0                     | 20.3                    | 1.1                       | 2.6                       | 3                                | 3                                 |
| Ageratum                | Pearl Royal              | 2                                | 2                                | 0.8                     | 7.6                     | 0.3                       | 0.4                       | 2                                | 2                                 |
| Aster, Annual Garden    | Perser Mix               | 3                                | 3                                | 9.7                     | 23.0                    | 1.7                       | 4.7                       | 3                                | 3                                 |
| Aster, Annual Garden    | Standy Mixture           | 3                                | 3                                | 9.3                     | 30.3                    | 1.7                       | 3.8                       | 3                                | 3                                 |
| Aster, China            | California Giant         | 4                                | 4                                | 7.2                     | 22.7                    | 2.3                       | 4.8                       | 4                                | 4                                 |
| Begonia, Wax            | Prelude Pink Improved    | 3                                | 3                                | 4.0                     | 10.0                    | 0.8                       | 1.4                       | 3                                | 3                                 |
| Begonia, Wax            | Prelude Scarlet Improved | 3                                | 3                                | 3.3                     | 12.0                    | 0.8                       | 1.2                       | 3                                | 3                                 |
| Begonia, Wax            | Prelude White            | 2                                | 2                                | 3.7                     | 8.5                     | 0.5                       | 1.3                       | 2                                | 3                                 |
| Blue Lace Flower        | Madonna Mix              | 2                                | 2                                | 13.0                    | 24.0                    | 1.2                       | 2.3                       | 2                                | 2                                 |
| Burridge Greenthread    | Philippine               | 2                                | 2                                | 5.7                     | 21.2                    | 0.8                       | 1.7                       | 2                                | 2                                 |
| Calendula               | Complete Tall Mix        | 3                                | 3                                | 15.3                    | 26.8                    | 1.2                       | 2.8                       | 3                                | 3                                 |
| Calendula               | Pacific Beauty Mixed     | 3                                | 3                                | 13.7                    | 25.5                    | 1.3                       | 2.9                       | 3                                | 3                                 |
| Calendula               | Porcupine                | 3                                | 3                                | 11.3                    | 25.3                    | 1.1                       | 2.8                       | 3                                | 4                                 |
| Calendula               | Red Splash               | 3                                | 3                                | 15.7                    | 25.3                    | 1.2                       | 2.8                       | 3                                | 3                                 |
| California Poppy        | Inferno                  | 4                                | 4                                | 6.3                     | 14.0                    | 0.8                       | 2.4                       | 4                                | 3                                 |
| California Poppy        | Ivory Castle             | 3                                | 3                                | 3.7                     | 17.3                    | 0.8                       | 2.3                       | 3                                | 3                                 |
| California Poppy        | Mission Bells            | 2                                | 2                                | 5.7                     | 20.0                    | 0.9                       | 2.8                       | 2                                | 2                                 |
| Celosia                 | Fresh Look Red           | 2                                | 2                                | 7.2                     | 13.2                    | 2.3 x 1.5                 | 5.2 x 2.3                 | 3                                | 2                                 |
| Celosia                 | Fresh Look Yellow        | 2                                | 2                                | 6.2                     | 13.0                    | 1.4 x 0.6                 | 3.3 x 1.3                 | 3                                | 2                                 |
| Celosia                 | Glow Carmine             | 3                                | 3                                | 4.8                     | 8.2                     | 1.4 x 0.5                 | 4.0 x 3.0                 | 3                                | 3                                 |
| Chilean Glory Vine      | Tresco Cream             | 4                                | 4                                | 57.2                    | 111.3                   | 0.8                       | 1.1                       | 4                                | 4                                 |
| Chrysanthemum           | Snowland                 | 4                                | 4                                | 4.8                     | 19.3                    | 0.6                       | 1.4                       | 4                                | 4                                 |
| Chrysanthemum, Tricolor | Coconut Ice              | 3                                | 3                                | 7.0                     | 21.3                    | 1.3                       | 2.3                       | 3                                | 3                                 |
| Chrysanthemum, Tricolor | Summer Festival          | 2                                | 2                                | 8.8                     | 27.0                    | 0.9                       | 2.5                       | 2                                | 2                                 |

<sup>z</sup> 0= dead; 1= poor, diseased, rotten or not showy; 2= fair, other cultivars of its kind have been better; 3= good, worth growing, nice ornamental; 4= outstanding quality, the best of its kind grown in the garden.

| Plant ratings <sup>z</sup> |         |         |         | Recommended for |         |        | Comments   |
|----------------------------|---------|---------|---------|-----------------|---------|--------|--|
| Flower                     |         | Foliage | Overall | Fragrance       | Cutting | Drying |  |
| quantity                   | quality |         |         |                 |         |        |  |
| 2                          | 2       | 2       | 2       | n               | y       | y      | Unusual color, not a great show, huge flower centers give ragged appearance, brown spots on petals, only worth growing for unusual color   |
| 4                          | 4       | 4       | 4       | n               | y       | y      | Outstanding color on huge fully double flowers, very attractive in mass plantings, needs some deadheading late in the season   |
| 4                          | 4       | 4       | 4       | n               | y       | y      | Outstanding blooms cover these plants providing intense solid color display, huge flowers really glow  |
| 4                          | 4       | 4       | 4       | n               | y       | y      | Bushy mounds loaded with flowers that are very intense and showy, brilliant display, no-maintenance, outstanding   |
| 3                          | 3       | 3       | 3       | n               | y       | y      | Abundant small blooms on tall upright stems, vibrant mix of colors   |
| 3                          | 4       | 3       | 3       | n               | n       | y      | Small pompon-type flowers cover compact bushy plants, excellent color mix, needs close spacing and warmest part of garden for best effect  |
| 4                          | 4       | 4       | 4       | n               | y       | y      | Brilliant eye-popping bicolor, tall, loaded with upright blooms, biggest challenge will be finding great combinations with other flowers, may be best in mass plantings, worth growing for the novel color |

Table 4 Results on cultivars completed three years testing, cont.

| Name              | Cultivar                   | Ave. <sup>z</sup><br>Overall<br>Rating | Ave. <sup>z</sup><br>Foliage<br>Rating | Ave.<br>Min flower<br>ht (in) | Ave.<br>Max Flower<br>ht (in) | Ave.<br>Min Flower<br>Size (in) | Ave.<br>Max Flower<br>Size (in) | Ave. <sup>z</sup><br>Flower<br>Quality | Ave. <sup>z</sup><br>Flower<br>Quantity |
|-------------------|----------------------------|--|--|-------------------------------|-------------------------------|---------------------------------|---------------------------------|--|---|
| Clarkia           | Passion for Purple         | 3                                      | 3                                      | 5.0                           | 17.0                          | 0.9                             | 1.8                             | 3                                      | 3                                       |
| Cleome            | Pink Queen                 | 3                                      | 3                                      | 28.0                          | 47.0                          | 2.7 x 4.0                       | 6.5 x 6.0                       | 3                                      | 3                                       |
| Cupid's Dart      |                            | 2                                      | 3                                      | 17.8                          | 30.1                          | 1.3                             | 2.2                             | 2                                      | 2                                       |
| Dahlia            | Citron du Cap              | 2                                      | 2                                      | 40.0                          | 63.0                          | 3.0                             | 5.0                             | 2                                      | 2                                       |
| Dahlia            | Gloriosa                   | 2                                      | 2                                      | 29.0                          | 37.0                          | 4.0                             | 6.5                             | 2                                      | 2                                       |
| Dahlia            | Hillcrest Fiesta           | 3                                      | 3                                      | 29.0                          | 37.7                          | 3.7                             | 6.7                             | 4                                      | 3                                       |
| Dianthus          | Amazon Neon Cherry         | 3                                      | 3                                      | 6.8                           | 18.8                          | 0.8                             | 1.2                             | 4                                      | 3                                       |
| Dianthus          | Amazon Neon Purple         | 3                                      | 3                                      | 10.3                          | 16.7                          | 1.7                             | 3.7                             | 3                                      | 3                                       |
| Dianthus          | Amazon Rose Magic          | 3                                      | 3                                      | 11.3                          | 19.8                          | 1.8                             | 3.7                             | 3                                      | 3                                       |
| Dianthus          | Dynasty Purple             | 1                                      | 1                                      | 3.0                           | 10.5                          | 1.3                             | 2.0                             | 1                                      | 1                                       |
| Dianthus          | Dynasty Red                | 3                                      | 2                                      | 8.8                           | 17.0                          | 0.8                             | 1.5                             | 3                                      | 2                                       |
| Dianthus          | Dynasty White Blush        | 2                                      | 2                                      | 5.7                           | 12.7                          | 0.8                             | 1.4                             | 2                                      | 2                                       |
| Gaillardia        | Goblin                     | 3                                      | 3                                      | 7.7                           | 16.5                          | 1.3                             | 3.6                             | 4                                      | 3                                       |
| Gypsophila        | Gypsy Deep Rose            | 2                                      | 2                                      | 1.3                           | 5.8                           | 0.3                             | 0.3                             | 3                                      | 3                                       |
| Hollyhock         | Queen Purple               | 3                                      | 3                                      | 12.7                          | 22.0                          | 2.1                             | 4.7                             | 3                                      | 3                                       |
| Impatiens, Garden | Dazzler Apricot Improved   | 3                                      | 3                                      | 1.0                           | 4.8                           | 1.0                             | 1.3                             | 3                                      | 3                                       |
| Impatiens, Garden | Dazzler Pink Deep Improved | 3                                      | 3                                      | 2.3                           | 7.0                           | 0.9                             | 1.4                             | 3                                      | 3                                       |
| Impatiens, Garden | Deco Orange                | 3                                      | 3                                      | 1.3                           | 14.0                          | 1.2                             | 1.7                             | 3                                      | 3                                       |
| Impatiens, Garden | Showstopper Pink Improved  | 3                                      | 3                                      | 1.3                           | 8.3                           | 0.9                             | 1.6                             | 3                                      | 3                                       |
| Impatiens, Garden | Swirl Mix Monet            | 2                                      | 3                                      | 1.0                           | 12.0                          | 0.9                             | 1.5                             | 2                                      | 3                                       |
| Impatiens, Garden | Swirl Raspberry            | 3                                      | 3                                      | 2.3                           | 8.0                           | 1.0                             | 1.5                             | 3                                      | 3                                       |
| Lupine            | Band of Nobles             | 3                                      | 3                                      | 18.5                          | 31.7                          | 8.0 x 3.0                       | 11.0 x 24.0                     | 3                                      | 3                                       |
| Marigold, African | Flagstaff                  | 3                                      | 3                                      | 11.3                          | 25.7                          | 1.6                             | 3.5                             | 3                                      | 3                                       |
| Melampodium       | Lemon Delight              | 4                                      | 4                                      | 1.8                           | 10.0                          | 0.5                             | 0.8                             | 4                                      | 4                                       |

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Table 4 Results on cultivars completed three years testing, cont.

| Name                  | Cultivar                      | Ave. <sup>z</sup><br>Overall<br>Rating | Ave. <sup>z</sup><br>Foliage<br>Rating | Ave.<br>Min flower<br>ht (in) | Ave.<br>Max Flower<br>ht (in) | Ave.<br>Min Flower<br>Size (in) | Ave.<br>Max Flower<br>Size (in) | Ave. <sup>z</sup><br>Flower<br>Quality | Ave. <sup>z</sup><br>Flower<br>Quantity |
|-----------------------|-------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------|---------------------------------|--|---|
| Nasturtium            | Caribbean Cocktail            | 4                                      | 4                                      | 2.5                           | 14.0                          | 1.4                             | 2.5                             | 4                                      | 4                                       |
| Nasturtium            | Fiery Festival                | 3                                      | 3                                      | 4.3                           | 21.8                          | 1.8                             | 2.7                             | 3                                      | 3                                       |
| Nasturtium            | Primrose Jewel                | 3                                      | 3                                      | 5.5                           | 15.8                          | 1.6                             | 2.3                             | 3                                      | 3                                       |
| Nicotiana (alata)     | Sensation White               | 3                                      | 3                                      | 18.7                          | 50.3                          | 0.8                             | 1.3                             | 3                                      | 3                                       |
| Osteospermum          | Glistening White              | 2                                      | 2                                      | 6.3                           | 15.0                          | 1.6                             | 3.3                             | 2                                      | 2                                       |
| Palafoxia             |                               | 1                                      | 1                                      | 7.0                           | 19.0                          | 0.5                             | 1.1                             | 1                                      | 2                                       |
| Pansy                 | Atlas Windjammer Mix          | 3                                      | 3                                      | 4.3                           | 13.3                          | 1.3                             | 2.8                             | 3                                      | 3                                       |
| Pansy                 | Bronze Tone                   | 3                                      | 3                                      | 4.8                           | 13.4                          | 1.1                             | 2.2                             | 3                                      | 3                                       |
| Pansy                 | Brunig                        | 3                                      | 3                                      | 4.8                           | 10.8                          | 1.2                             | 2.1                             | 3                                      | 3                                       |
| Pansy                 | Coronation Gold               | 3                                      | 3                                      | 4.0                           | 14.2                          | 1.0                             | 2.8                             | 3                                      | 3                                       |
| Pansy                 | Fama Orange                   | 2                                      | 2                                      | 6.0                           | 12.5                          | 1.4                             | 2.5                             | 2                                      | 2                                       |
| Pansy                 | Majestic Patricia             | 3                                      | 3                                      | 4.7                           | 14.0                          | 1.3                             | 2.5                             | 3                                      | 4                                       |
| Petunia               | Easy Wave® Pink               | 4                                      | 4                                      | 4.0                           | 12.0                          | 2.0                             | 3.0                             | 4                                      | 4                                       |
| Petunia               | Easy Wave® Salmon             | 3                                      | 3                                      | 2.5                           | 6.7                           | 1.5                             | 2.7                             | 3                                      | 3                                       |
| Petunia               | Easy Wave® White              | 3                                      | 3                                      | 1.0                           | 9.0                           | 1.0                             | 2.3                             | 3                                      | 3                                       |
| Petunia               | Limbo Violet                  | 3                                      | 3                                      | 3.5                           | 9.8                           | 1.8                             | 3.6                             | 3                                      | 3                                       |
| Petunia               | Merlin Blue Morn              | 3                                      | 3                                      | 5.7                           | 16.7                          | 1.5                             | 2.8                             | 3                                      | 3                                       |
| Petunia               | Stars & Stripes               | 3                                      | 2                                      | 5.0                           | 15.8                          | 2.7                             | 3.8                             | 3                                      | 3                                       |
| Petunia               | Tidal Wave Purple             | 4                                      | 4                                      | 6.5                           | 28.3                          | 1.3                             | 2.4                             | 4                                      | 4                                       |
| Petunia               | Tidal Wave Silver             | 4                                      | 4                                      | 5.8                           | 21.8                          | 1.4                             | 2.8                             | 4                                      | 4                                       |
| Rudbeckia             | Autumn Colors                 | 3                                      | 3                                      | 10.3                          | 23.2                          | 2.2                             | 5.1                             | 3                                      | 3                                       |
| Salvia, Mealy-cup     | Strata                        | 3                                      | 3                                      | 12.3                          | 20.7                          | 3.4 x 0.9                       | 7.5 x 1.2                       | 3                                      | 3                                       |
| Salvia, Scarlet       | Red Arrows                    | 3                                      | 3                                      | 7.3                           | 17.8                          | 3.0 x 1.5                       | 6.7 x 2.7                       | 3                                      | 3                                       |
| Snapdragon            | Double Madame Butterfly Mixed | 3                                      | 3                                      | 12.7                          | 29.8                          | 4.5 x 2.3                       | 9.5 x 3.5                       | 3                                      | 3                                       |
| Snapdragon            | Freesong Pink                 | 2                                      | 2                                      | 9.5                           | 19.7                          | 2.5 x 1.5                       | 7.5 x 2.5                       | 2                                      | 2                                       |
| Statice               | Gold Coast                    | 4                                      | 4                                      | 12.0                          | 32.3                          | 1.9 x 1.0                       | 7.9 x 3.0                       | 4                                      | 3                                       |
| Sunflower             | Double Dandy                  | 2                                      | 2                                      | 16.7                          | 23.7                          | 1.9                             | 4.7                             | 2                                      | 3                                       |
| Sunflower             | Dwarf Yellow Spray            | 3                                      | 2                                      | 17.7                          | 30.2                          | 2.7                             | 5.8                             | 3                                      | 3                                       |
| Sunflower             | Earthwalker                   | 3                                      | 3                                      | 30.0                          | 58.3                          | 4.1                             | 6.5                             | 3                                      | 3                                       |
| Sunflower             | Summer Sunset Mix             | 2                                      | 2                                      | 34.5                          | 54.7                          | 3.5                             | 6.2                             | 2                                      | 2                                       |
| Sunflower             | The Bee's Knees               | 3                                      | 3                                      | 30.7                          | 57.7                          | 4.1                             | 8.3                             | 3                                      | 3                                       |
| Sweet Alyssum         | Snow Crystals                 | 4                                      | 3                                      | 0.7                           | 5.8                           | 0.3                             | 0.3                             | 4                                      | 4                                       |
| Verbena, Garden       | Quartz Burgundy Eye           | 3                                      | 3                                      | 3.7                           | 12.5                          | 0.3                             | 0.3                             | 3                                      | 3                                       |
| Verbena, Moss         | Lavender Mist                 | 3                                      | 3                                      | 6.3                           | 18.0                          | 0.8                             | 1.1                             | 3                                      | 3                                       |
| Viola                 | Penny Violet                  | 2                                      | 2                                      | 3.3                           | 13.7                          | 0.9                             | 1.8                             | 2                                      | 2                                       |
| Viola                 | Sorbet™ Coconut Swirl         | 4                                      | 4                                      | 2.8                           | 11.5                          | 1.0                             | 1.6                             | 4                                      | 4                                       |
| Viola                 | Sorbet™ Orange Delight        | 4                                      | 4                                      | 3.7                           | 11.8                          | 0.8                             | 1.5                             | 4                                      | 4                                       |
| Viola                 | Sorbet™ Orange Duet           | 3                                      | 3                                      | 4.8                           | 14.2                          | 0.8                             | 1.5                             | 3                                      | 3                                       |
| Zinnia (angustifolia) | Tropic Snow                   | 2                                      | 2                                      | 5.3                           | 16.2                          | 1.0                             | 2.0                             | 2                                      | 2                                       |
| Zinnia, Garden        | Envy                          | 2                                      | 2                                      | 15.2                          | 25.2                          | 2.0                             | 2.9                             | 2                                      | 2                                       |
| Zinnia, Garden        | Zinnita Mix                   | 3                                      | 3                                      | 4.2                           | 13.0                          | 0.8                             | 1.8                             | 4                                      | 3                                       |

<sup>z</sup> 0= dead; 1= poor, diseased, rotten or not showy; 2= fair, other cultivars of its kind have been better; 3= good, worth growing, nice ornamental; 4= outstanding quality, the best of its kind grown in the garden.

## Seed and Plant Sources

*The list of commercial sources does not include all possible seed and plant sources. The list reflects sources from which the Georganon Botanical Garden has received seeds/plants during the past five years. No endorsement of companies should be implied by those listed, nor criticism intended of those not listed.*

### Alaska Sources

Ann's Greenhouses, 780 Sheep Creek Rd, Fairbanks AK 99709  
Alaska Greenhouse, 1301 Muldoon Rd, Anchorage AK 99514  
Clair's Cultivations, 1364 Esro Rd, Fairbanks AK 99712  
Denali Seed, PO Box 111425, Anchorage AK 99511, [www.denaliseed.com](http://www.denaliseed.com)  
Dinkel's Fairview Nursery, HC 31 Box 5193, Wasilla AK 99687  
Driftwood Nurseries, 7.2 Mile Chena Hot Springs Rd, PO Box 10462 Fairbanks, AK 99710  
Hawk's Farm & Garden Center, 12 Mile Richardson Hwy, PO Box 55759, North Pole AK 99705  
Holm Town Nursery, PO Box 71565, Fairbanks AK 99707  
Plant Kingdom, 620 Fiedeler Rd, Fairbanks AK 99709  
Risse Greenhouses, 981 Risse Rd, Fairbanks AK 99712  
Seeds of Alaska, Box 3127, Kenai AK 99611  
Washburn Farm Nursery, PO Box 823, Palmer AK 99645  
Woodland Farms, Mile 311 Parks Hwy, Nenana AK

### Commercial Wholesale and Research Sources (seeds and plants not sold directly to the public)

All American Selections, 1311 Butterfield Rd Suite 310, Downer's Grove IL 60515  
<http://www.all-americanselections.org>  
Ball Seed Co., PO Box 335, West Chicago IL 60185 (wholesale only), [www.ballseed.com](http://www.ballseed.com)  
EuroAmerican Propagators (Proven Winners), PO Box 289, Bonsall CA 92003, [www.euroamprop.com](http://www.euroamprop.com)  
Fischer USA, 6899 Winchester Circle Suite 102, Boulder CO 80301, [www.fischerusa.com](http://www.fischerusa.com)  
Goldsmith, PO Box 1349, Gilroy CA 95021, [www.goldsmithseeds.com](http://www.goldsmithseeds.com)  
Green Leaf (Yoder Bros.) 2369 Old Philadelphia Pike, Lancaster PA 17602, [www.green-leaf-ent.com](http://www.green-leaf-ent.com)  
Lawyer Nursery, 950 Hwy 200 W, Plains MT 59859, [www.lawyer nursery.com](http://www.lawyer nursery.com)  
Oglevee Ltd., 152 Oglevee Ln, Connellsville PA 15425, [www.oglevee.com](http://www.oglevee.com)  
PanAmerican Seeds, PO Box 438, West Chicago IL 60186, [www.panamseed.com](http://www.panamseed.com)  
The Flower Fields (Yoder Bros & Ecke Ranch), [www.theflowerfields.com](http://www.theflowerfields.com)  
USDA Plant Introduction Stations - NC7, Ames IA, [www.ars-grin.gov/ars/MidWest/Ames](http://www.ars-grin.gov/ars/MidWest/Ames)

### Garden Societies and Organizations with seed exchanges and sales for members only

Alaska Native Plant Society, PO Box 141613, Anchorage AK 99514  
American Horticultural Society, PO Box 6118, Alexandria VA 22308, [www.ahs.org](http://www.ahs.org)  
North American Rock Garden Society, PO Box 67, Millwood NY 10546, [www.nargs.org](http://www.nargs.org)  
Hardy Fern Foundation, Box 60034, Richmond Beach WA 98160, [www.hardyferns.org](http://www.hardyferns.org)  
New England Wildflower Society, 180 Hemenway Rd, Framingham MA 01701, [www.newfs.org](http://www.newfs.org)

### Retail Sources of Plants/Seeds

Agway, Inc. Seed Plant, 1225 Zeager Rd, Elizabethtown PA 17022  
Alberta Nurseries & Seeds Ltd., PO Box 20, Bowden AB TOM 0K0  
Applewood Seed Co., 5380 Vivian St, Aruada CO 80002, [www.applewoodseed.com](http://www.applewoodseed.com)  
B&D Lilies, PO Box 2007, Port Townsend WA 98368, [www.bdlilies.com](http://www.bdlilies.com)  
Bear Creek Nursery, PO Box 411, Northport WA 99157, [www.BearCreekNursery.com](http://www.BearCreekNursery.com)  
Bluebird Nursery, Inc., PO Box 460, Clarkson NE 68629, [www.bluebirdnursery.com](http://www.bluebirdnursery.com)  
Carolina Seeds, PO Box 2658 Hwy 105 Bypass, Boone NC 28607, [www.carolinaseeds.com](http://www.carolinaseeds.com)  
Clause Seed, 100 Breen Rd, San Juan Bautista CA 95045  
Connell's Dahlias, 10616 Waller Rd E, Tacoma WA 98446, [www.connells-dahlias.com](http://www.connells-dahlias.com)  
Cook's Garden, PO Box 535, Londonderry VT 05148, [www.cooksgarden.com](http://www.cooksgarden.com)  
Daehnfeldt, PO Box 947, Albany OR 97321, [www.daehnfeldt.com](http://www.daehnfeldt.com)

Dutch Gardens, Inc., PO Box 2037, Lakewood NJ 08701, [www.dutchgardens.nl](http://www.dutchgardens.nl)  
F.W. Schumacher Co., Inc., 36 Spring Hill Rd, Sandwich MA 02563, [www.treeshrubseed.com](http://www.treeshrubseed.com)  
Farmer Seed & Nursery Co., 818 NW 4th St, Fairbault MN 55021, [www.farmerseed.com](http://www.farmerseed.com)  
Ferry-Morse Seed Co., PO Box 4938, Modesto CA 95352, [www.ferry-morse.com](http://www.ferry-morse.com)  
Fred C. Gloeckner & Co., Inc., 15 E 26th St, New York NY 10010, [www.fredgloeckner.com](http://www.fredgloeckner.com)  
Gardens North, 5984 Third Line Rd N, North Gower ON K0A 2T0 Canada, [www.gardensnorth.com](http://www.gardensnorth.com)  
Germania Seed Co., 5978 N Northwest Hwy, Chicago IL 60631, [www.germaniaseed.com](http://www.germaniaseed.com)  
Gilbert H. Wild & Sons, P O Box 338, Sarcoxie MO 64862, [www.gilberthwild.com](http://www.gilberthwild.com)  
H.G. German Seeds, Inc., PO Box 398, Smethport PA 16749  
Harris Seeds, PO Box 24966, Rochester NY 14624-0966, [www.harrisseed.com](http://www.harrisseed.com)  
Henry Field's Seed and Nursery Co., 415 N Burnett, Shenandoah IA 51602, [www.HenryFields.com](http://www.HenryFields.com)  
Home Harvest Seeds, 3807 Bank St, Baltimore MD 21224, [www.homeharvestseeds.com](http://www.homeharvestseeds.com)  
Irish Eyes & Garden City Seeds, PO Box 307, Thorp WA 98946, [www.irish-eyes.com](http://www.irish-eyes.com)  
J.L. Hudson, PO Box 1058H, Redwood City CA 94064, [www.jlhudsonseeds.net](http://www.jlhudsonseeds.net)  
Jackson & Perkins, PO Box 1028, Medford OR 97501, [www.jacksonandperkins.com](http://www.jacksonandperkins.com)  
Johnny's Selected Seeds, 1 Foss Hill Rd, Albion ME 044910, [www.johnnyseeds.com](http://www.johnnyseeds.com)  
Jung Quality Seeds, 335 S High St, Randolph WI 53957, [www.jungseed.com](http://www.jungseed.com)  
K. Van Bourgondien & Sons, Inc., PO Box 1000, Babylon NY 11702, [www.dutchbulbs.com](http://www.dutchbulbs.com)  
Lamb Nurseries, 101 E Sharp Ave, Spokane WA 99202  
McClure & Zimmerman, PO Box 368, Friesland WI 53935, [www.mzbulb.com](http://www.mzbulb.com)  
Milk Ranch Specialty Potatoes LLC, 20094 Hwy 149, Powderhorn CO 81243, [www.milkcranch.com](http://www.milkcranch.com)  
Nichols Garden Nursery, 1190 N Pacific Hwy, Albany OR 97321, [www.gardennursery.com](http://www.gardennursery.com)  
Nourse Farms, Inc., Box 485 RFD, South Deerfield MA 01373, [www.noursefarms.com](http://www.noursefarms.com)  
Park Seeds, 2 Parkton Ave, Greenwood SC 29649, [www.parkseed.com](http://www.parkseed.com)  
Peter de Jager Bulb Co., PO Box 2010, So. Hamilton MA 01982  
Pinetree Garden Seeds, PO Box 300, New Gloucester ME 04260, [www.superseeds.com](http://www.superseeds.com)  
Richters, 357 Highway 47, Goodwood ON LOC 1A0 Canada, [www.richters.com](http://www.richters.com)  
Rosaie at Bayfields, Box R, Waldoboro ME 04572, [www.rosaraie.com](http://www.rosaraie.com)  
Royal Sluis, Inc., 1293 Harkins Rd, Salinas CA 93901  
Rupp Seeds, Inc., 17919 County Rd B, Wauseon OH 43567, [www.ruppseeds.com](http://www.ruppseeds.com)  
Seeds of Change, PO Box 15700, Santa Fe NM 87501, [www.seedsofchange.com](http://www.seedsofchange.com)  
Seeds of Distinction, PO Box 86 Station A, Toronto ON M9C 4V2 Canada, [www.seedsofdistinction.com](http://www.seedsofdistinction.com)  
Seedway, Inc., PO Box 250, Hall NY 14463, [www.seedway.com](http://www.seedway.com)  
Select Seeds, 180 Stickney Hill Rd, Union CT 06076, [www.selectseeds.com](http://www.selectseeds.com)  
Seymour's Selected Seeds, PO Box 1346, Randolph WI 53956, [www.seymourseeduk.com](http://www.seymourseeduk.com)  
Shepherd's Garden Seeds, 30 Irene St, Torrington CT 06790, [www.shepherdseeds.com](http://www.shepherdseeds.com)  
Smith Nursery Co., PO Box 515, Charles City IA 50616  
Song Sparrow Perennial Farm, 13101 East Rye Rd, Avalon WI 53505, [www.songsparrow.com](http://www.songsparrow.com)  
Stokes Seeds, PO Box 548, Buffalo NY 14240, [www.stokeseeds.com](http://www.stokeseeds.com)  
T & T Seeds, Ltd., Box 1710, Winnipeg MB R3C 3P6 Canada, [www.ttseeds.mb.ca](http://www.ttseeds.mb.ca)  
Territorial Seed Co., PO Box 157, Cottage Grove OR 97424, [www.territorial-seed.com](http://www.territorial-seed.com)  
Thompson & Morgan Seed Co., Box 1308 Jackson, NJ, [www.thompson-morgan.com](http://www.thompson-morgan.com)  
Twilley Seeds, 121 Gary Rd, Hodges SC 29653, [www.twilleyseed.com](http://www.twilleyseed.com)  
Valley Nursery, Box 4845, Helena MT 59604  
Van Bloem USA, Inc., 500 Pendley Industrial Park, Cumming GA 30130  
Vaughan's Seed Co., 5300 Katrine Ave, Downers Grove IL 60515  
Vermont Bean Seed Co., Garden Ln, Fair Haven VT 05743, [www.vermontbean.com](http://www.vermontbean.com)  
Vesey's Seeds, Ltd., PO Box 9000, Calais ME 04619-6102, [www.veseys.com](http://www.veseys.com)  
W. Atlee Burpee & Co., 300 Park Ave, Warminster PA 18991, [www.burpee.com](http://www.burpee.com)  
Wauhara Gardens, N 5491 5th Dr, Plainfield WI 54966  
Wayside Gardens, 1 Garden Ln, Hodges SC 29695, [www.waysidegardens.com](http://www.waysidegardens.com)  
White Flower Farm, PO Box 50, Litchfield CT 06759, [www.whiteflowerfarm.com](http://www.whiteflowerfarm.com)  
Wildseed, Inc., PO Box 308, Eagle Lake TX 77434

**Without our dedicated volunteers, continued growth and success of the Georgeson Botanical Garden would not be possible. A big thank you to our 2005 volunteers**

*To join these valued people, call Jan Hanscom at 474-6921*

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