

Oklahoma State University Floriculture

2003 Fall Bedding Plant Trial Report

Prepared by Eileen Cravello and Todd Cavins
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Proven Winners rooted cuttings were transplanted into 1801 bedding plant flats using BM7 commercial substrate. Benary seeds were sown July 29 and transplanted as needed to 1801 bedding plant flats using the same substrate. All plants received a preventative fungicide drench (Banrot, 8 oz./100 gal.) on August 27. Plants were grown in a polycarbonate-covered greenhouse with 65/75 °F night/day set temperatures and fertigated as needed with 150 ppm N from 21-5-20 fertilizer. Proven Winners plant materials and Benary pansies were planted into the field on September 16 at the Oklahoma State University Botanical Gardens in Stillwater, OK and irrigated as needed. Silene, delphinium, and dianthus were transplanted into the field on September 26.

The average high/low temperatures during the trial were 79/57, 75/48, 59/39, 53/31 °F during September, October, November, and December, respectively. The first freeze (temperature $\leq 32^{\circ}\text{F}$) occurred on November 6 with a low temperature of 27 °F. The coldest temperature recorded during the trials (September 16 to December 7) was 19 °F. The following tables list each cultivar tested with comments and ratings (1 to 5 with 5 being highest) as well as plant size.

Benary
Genus

Variety

Comments

10/31 11/22 11/22 Avg. 11/22
Rating Rating Rating Dia./Ht.

Genus	Variety	Comments	10/31 Rating	11/22 Rating	Avg. Rating	11/22 Dia./Ht.
<i>Delphinium</i>	'Summer Nights'	10/31 - Slow growth. No flowers. 11/22 - Yellowing of leaves. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Severely stressed.	2	3	2.5	2-4" / 2"
<i>Dianthus</i>	'Confetti Mix'	10/31 - Very compact. No flowers 11/22 - Very slow growth. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Excellent survival of cold temps.	2	3	2.5	2.5 - 6" / 2"
<i>Silene</i>	'Celina'	10/31 - Very slow growth. 11/22 - Alive but leaves are not turgid. 11/30 - Following 4 days of below 30 degree temps. plants are somewhat wilted. 12/7 - Wilted and some browning of leaf margins but still alive.	2	2	2.0	3-8" / 3"
<i>Viola</i>	'Fama White'	10/31 - No flowers. 11/22 - Most susceptible to deer and rabbits and least robust overall. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Excellent survival. Still blooming.	2	3	2.5	4-6" / 4"
<i>Viola</i>	'Fama Silver Blue'	10/31 - One flower present. 11/22 - Plants are healthy. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Excellent survival. Still blooming.	2	4	3.0	4-9" / 5"
<i>Viola</i>	'Fama Peach Shades'	10/31 - New growth but no flowers. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Excellent survival but no flowers present.	2	3	2.5	4-9" / 4"
<i>Viola</i>	'Fama Dk. Eyed Carmine'	10/7 - First to flower. 10/31 - Most upright. More flowering than others. 11/22 - Most animal resistant. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Excellent survival but no flowers present.	2	5	3.5	5-10" / 5"

**Proven
Winners**

Genus	Variety	Comments	10/31 Rating	11/22 Rating	Avg. Rating	11/22 Dia./Ht.
<i>Acorus</i>	'Ogon'	10/31 - Slow growing. 11/22 - Some browning of tips. 11/30 - Following 4 days of below 30 degree temps. Plants still look healthy but have some browning of tips. 12/7 - Excellent survival and condition.	3	4	3.5	7-12" / 9"
<i>Argyranthemum</i>	'Butterfly'	10/7 - 2 of 8 plants flowering. 10/31 - Very aggressive veg. growth but only one plant flowering. 11/22 - Had been flowering but none present today. Some browning of leaves. 11/30 - Following 4 days of below 30 degree temps. plants severely wilted. 12/7 - Plants are dead.	5	5	5.0	13-15" / 15"
<i>Calibrachoa</i>	'Superbells Red'	10/31 - Good veg. 11/22 - No flowering. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Excellent survival and condition.	4	4	4.0	6-13" / 4"
<i>Calibrachoa</i>	'Superbells Pink'	10/31 - Good veg., more flowering on 'Pink' than 'Red' 11/22 - No flowering. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Good survival and condition.	4	4	4.0	6-12" / 4"
<i>Carex</i>	'Toffee Twist'	10/31 - Good growth and color. 11/22 - Healthy even growth. 11/30 - Following 4 days of below 30 degree temps. Plants still look healthy. 12/7 - Excellent survival and condition.	5	5	5.0	13-24" / 14"
<i>Diascia</i>	'Flying Colors Apricot'	10/7 - No flowers. 10/31 - Slightly more compact than 'Coral'. 11/22 - Most profuse flowering. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Good survival and condition.	5	5	5.0	10-15" / 10"
<i>Diascia</i>	'Flying Colors Coral'	10/7 - Flowering. 10/31 - More flowering than 'Apricot' or 'T.A.Rose' and is tallest. 11/22 - Most upright. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Good survival and condition.	5	5	5.0	11-15" / 13"
<i>Diascia</i>	'Flying Colors Trailing Antique Rose'	10/7 - Flowering. 10/31 - More prostrate and less aggressive than others 11/22 - Most prostrate. 11/30 - Following 4 days of below 30 degree temps. plants still look healthy. 12/7 - Good survival and condition.	4	4	4.0	8-14" / 5"

**Proven
Winners**
Genus

	Variety	Comments	10/31 Rating	11/22 Rating	Avg. Rating	11/22 Dia./Ht.
<i>Nemesia</i>	'Compact Innocence'	10/7 - Good flowering. 10/31 - More compact and denser growth than 'Blue Bird'. 11/22 - More flowering than 'Blue Bird'. 11/30 - Following 4 days of below 30 degree temps. flowers are brown but foliage is still green. 12/7 - Very stressed but survived cold temps.	4	5	4.5	7-12" / 9"
<i>Osteospermum</i>	'Symphony Orange'	10/7 - Beginning to flower. 10/31 - Flowering but uneven in growth from one plant to another. 11/22 - Most upright. Good non-fading color. 11/30 - Following 4 days of below 30 degree temps. plants look wilted. 12/7 - Exposed portions are wilted but those protected by natural mulch are still surviving.	4	4	4.0	12-20" / 12"
<i>Osteospermum</i>	'Symphony Lemon'	10/7 - Beginning to flower. 10/31 - Flowering but uneven in growth from one plant to another. 11/22 - Fewest flowers. 11/30 - Following 4 days of below 30 degree temps. plants look wilted. 12/7 - Exposed portions are wilted but those protected by natural mulch are still surviving.	4	3	3.5	9-20" / 8"
<i>Osteospermum</i>	'Symphony Peach'	10/7 - No flowers. 10/31 - Flowering but uneven in growth from one plant to another. 11/30 - Following 4 days of below 30 degree temps. plants look wilted. 12/7 - Exposed portions are wilted but those protected by natural mulch are still surviving.	4	4	4.0	13-20" / 9"
<i>Sedum</i>	'Carl'	10/31 - Some browning of tips. Some insect damage but lots of new growth. 11/22 - Severely eaten but lots of new growth. Some yellowing of leaves. 11/30 - Following 4 days of below 30 degree temps. plants look wilted. 12/7 - Plants are dead.	2	2	2.0	3-6" / 2.5"