

MISSISSIPPI MEDALLION ORNAMENTAL EVALUATION

S.S. Harkness¹ and R.C. Sloan¹

¹Horticulture Research & Education Unit; North Mississippi Research & Extension Center; Mississippi State University; Verona, MS 38879.

ABSTRACT: The North Mississippi Research & Extension Center participated in the Mississippi Medallion Program's plant landscape plant evaluations. Forty-five cultivars of annual landscape plants were planted at the HREU to evaluate vigor, flower yield, uniformity, uniqueness, insect and disease tolerance. 'Carita Light Blue' Angelonia and 'Shisho Red' perilla were among the largest and widest plants while 'Santo Madiera' argyranthemum and 'Pinwheel Snow' felicia were the smallest in the trial.

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KEYWORDS: bedding plant, *Alternanthera dentata*, *Angelonia angustifolia*, *Argyranthemum frutescens*, *Catharanthus roseus*, *Coleus blumei*, *Perilla frutescens*, *Plectranthus argentatus*, *Verbena X hybrida*

MATERIALS AND METHODS: Forty-five cultivars of various annual plants were obtained in March 2004. The plants were transplanted into 4-inch pots containing Metro Mix 366. The plant material was fertilized with 200 ppm (mg l⁻¹) N using Peter's Peat Lite Special 20-10-20 water soluble fertilizer until ready to transplant in the landscape. The plants were drenched with Banrot (etridiazole + thiophanate methyl) at a rate of 2 oz/gal prior to transplanting to plant beds. The plants were transplanted into raised beds on 5/17/04. The beds were fertilized monthly with 1.3 lbs. of 13-13-13 and .5 lb of 0-0-60 /1000 ft². The plants were spaced 18 inches within the row.

The plants in this observation were planted in a non-replicated trial. No statistical comparisons were made in this evaluation. The data recorded in this experiment were growth, plant vigor, flower yield, uniformity, uniqueness, pest resistance, and disease resistance. Data was collected and analyzed on 5 dates. The rating scale ranged from 1 – 5 where 5 represented excellent qualities down to 1 which represented poor qualities. The growth index used to measure the plant growth was calculated by the following formula: $\pi \cdot r^2 \cdot h$, where $r^2 = (((\text{width}1 + \text{width}2)/2)/2)^2$. Width 1 and Width 2 were measured at right angles to each other to determine an average plant diameter and h = plant height. All measurements were made in centimeters. Plant growth measurements were collected on 10/5/05.

RESULTS AND DISCUSSION: The measurements and observations obtained in this evaluation were not subjected to statistical analysis. The results are presented in the following tables. A means rating of 3.0 or higher above reflects a satisfactory landscape performance (Tables 2-8).

Table 1. Cultivars and sources of plants included in the 2004 Mississippi Medallion observations.

Genus	Cultivar	Source
Alternanthera	Purple King	Proven Winners
Angelonia	Angelmist Purple Stripe	Ball FloraPlant
	Carita Light Blue	Goldsmith Plants
	Carita Purple	Goldsmith Plants
	Angelmist White Imp.	Ball FloraPlant
	Angelmist White	Ball FloraPlant
	Angelmist Purple	Ball FloraPlant
	Angelmist Lavender Stripe	Ball FloraPlant
	Carita White	Goldsmith Plants
	Angelmist Light Blue	Ball FloraPlant
	Angelmist Light Pink	Ball FloraPlant
	Angelmist Deep Pink	Ball FloraPlant
Argyranthemum	Santo Madiera	Ball FloraPlant
Coleus	South of the Border	Ball FloraPlant
	Mississippi Sunset	Ball FloraPlant
	Defiance	Ball FloraPlant
	Aurora Peach Coleus	Ball FloraPlant
	Aurora Raspberry	Ball FloraPlant
Felicia	Pinwheel Snow	Ball FloraPlant
Lantana	Landmark Gold	Ball FloraPlant
	Pink Dawn	Ball FloraPlant
	Lucky White	Ball FloraPlant
	Landmark Peach Sunrise	Ball FloraPlant
Perilla	Shisho Red	
	Magilla Perilla	Ball FloraPlant
Plectranthus	Silver Shield	Ball FloraPlant
	Mona Lavender	Ball FloraPlant
Verbena	Aztec Wild Rose	Ball FloraPlant
	Aztec Red Velvet	Ball FloraPlant
	Aztec Magic Purple	Ball FloraPlant
Vinca	Big Ruby	Park Seed
	Titan Polka Dot	Ball Seed
	Jaio Scarlet Eye	Goldsmith Seeds
	Titan Lavender Halo	Ball Seed
	Titan Blush	Ball Seed

Pacifica Punch Halo	Ball Seed
Pacifica Magneta Halo	Ball Seed
Titan Lilac	Ball Seed
Peppermint Cooler	Ball Seed
Mediterranean Pink	Waller Genetics
Victory Cranberry	Sakata Seed
Titan Burgundy	Ball Seed
Stardust Orchid	Ball Seed
Mediterranean Punch	Waller Genetics

Table 2. Height, width and size of Mississippi Medallion cultivars in 2004.

Species	Cultivar	Height (cm)	Width (cm)	Size (cm ³) ^z
Alternanthera	Purple King	33.3	36.4	40494
Angelonia	Angelmist Purple Stripe	76.7	73.3	330261
	Carita Light Blue	73.5	78.5	315050
	Carita Purple	72.5	74.1	315050
	Angelmist White Imp.	70.6	74.3	306934
	Angelmist White	70.2	70.2	274260
	Angelmist Purple	65.3	76.3	301803
	Angelmist Lavender Stripe	64.6	62.6	212473
	Carita White	63.0	68.8	235216
	Angelmist Light Blue	52.3	64.9	195314
	Angelmist Light Pink	49.5	73.4	209874
	Angelmist Deep Pink	41.3	64.5	140641
Argyranthemum	Santo Madiera	11.6	39.7	1078
Coleus	South of the Border	74.2	65.1	253269
	Mississippi Sunset	71.8	69.0	266345
	Defiance	69.9	74.3	316152
	Aurora Peach Coleus	45.9	64.6	158539
	Aurora Raspberry	41.7	59.0	122919
Felicia	Pinwheel Snow	11.8	13.5	2067
Lantana	Landmark Gold	66.0	36.1	79223
	Pink Dawn	45.3	76.0	205504
	Lucky White	43.4	58.8	122168
	Landmark Peach Sunrise	41.0	60.0	127553
Perilla	Shisho Red	74.5	65.8	269319
	Magilla Perilla	38.2	46.0	151422
Plectranthus	Silver Shield	62.8	71.5	263400
	Mona Lavender	35.6	47.3	64939
Verbena	Aztec Wild Rose	17.7	52.7	40163
	Aztec Red Velvet	15.1	64.5	54644
	Aztec Magic Purple	7.8	54.5	22663
Vinca	Big Ruby	46.3	52.3	102169
	Titan Polka Dot	40.2	50.5	81902
	Jaio Scarlet Eye	39.0	51.8	83182
	Titan Lavender Halo	37.3	56.8	98770
	Titan Blush	36.8	36.6	39170
	Pacifica Punch Halo	36.7	45.8	62546

Pacifica Magneta Halo	35.2	46.8	61057
Titan Lilac	35.0	47.9	649993
Peppermint Cooler	32.5	54.2	73760
Mediterranean Pink White Dot	30.3	41.9	39693
Victory Cranberry	28.8	55.7	73153
Titan Burgundy	27.0	50.6	54070
Stardust Orchid	25.2	48.5	48646
Mediterranean Punch	9.2	47.3	16858

^z Size = $\pi \cdot r^2 \cdot h$, where $r^2 = (((width1 + width2)/2)/2)^2$

Table 3. Vigor ratings for six observation dates in 2004^z

Species	Cultivar	June 8	July 6	Aug 9	Aug 23	Sept 15	Oct 5
Alternanthera	Purple Knight	1.4	1.7	2.0	2.1	1.94	3.4
Angelonia	Angelmist Deep Pink	2.0	2.0	3.2	3.2	3.0	4.0
	Angelmist Lav.Stripe	4.0	4.0	3.8	.5	4.0	4.0
	Angelmist Light Blue	3.0	3.3	3.8	3.4	3.7	4.0
	Angelmist Light Pink	2.7	2.0	4.0	3.7	3.7	4.0
	Angelmist Purple	3.3	2.8	3.0	3.3	3.3	4.0
	Angelmist Purple Stripe	3.0	3.0	4.0	3.7	3.8	3.8
	Angelmist White	3.5	2.7	4.0	3.8	3.5	4.0
	Angelmist White Imp.	2.3	2.8	4.5	3.8	4.0	2.5
	Carita Light Blue	2.2	2.6	3.3	3.1	3.2	3.3
	Carita Purple	2.3	3.2	4.0	3.7	3.7	2.5
	Carita White	2.3	2.7	4.0	3.3	3.2	4.0
Argyranthemum	Santo Madiera	1.4	1.3	1.5	1.3	1.5	1.8
Coleus	Aurora Peach	2.5	2.9	3.0	3.4	3.4	3.9
	Aurora Raspberry	2.5	2.5	3.1	3.5	3.3	3.3
	Defiance	2.7	2.8	3.7	3.4	3.4	4.0
	Mississippi Sunset	2.6	3.0	3.6	3.7	3.6	3.4
	South of the Border	3.0	2.6	3.3	3.4	3.7	3.3
	Touch of Class	2.1	2.9	3.5	3.6	3.5	3.9
Felicia	Pinwheel Snow	1.5	2.0	2.0	1.7	2.0	2.0
Lantana	Landmark Gold	2.8	2.8	3.5	4.0	3.8	4.5
	Landmark Peach Sunrise	2.8	2.8	2.5	3.0	3.0	2.0
	Lucky White	2.8	3.0	2.8	3.0	3.3	4.0
	Pink Dawn	3.3	2.8	2.8	3.0	3.3	3.0
Perilla	Magilla	2.7	3.3	4.0	3.5	3.4	5.0
	Shisho Red	3.0	3.0	3.8	3.3	3.5	4.0
Plectranthus	Mona Lavender	1.8	1.9	1.9	2.9	2.9	3.3
	Silver Shield	1.8	2.0	2.4	2.9	2.9	3.7
Verbena	Aztec Magic Purple	1.6	2.3	2.9	3.0	3.0	3.0
	Aztec Red Velvet	2.0	2.4	3.0	2.8	2.4	3.9
	Aztec Wild Rose	2.0	2.5	2.6	2.7	3.0	3.5
Vinca	Big Ruby	2.5	3.0	3.8	3.5	4.0	4.3
	Cooler Deep Orchid	2.3	2.2	2.8	2.7	3.0	3.5

Jaio Scarlet Eye	2.0	2.5	3.2	2.3	3.2	3.7
Mediterranean Pink	2.8	3.0	3.8	3.3	4.0	3.3
Mediterranean Punch	2.5	3.2	3.2	3.8	4.0	4.0
Pacifica Magenta Halo	1.8	3.2	3.5	3.3	3.3	3.3
Pacifica Punch Halo	2.3	2.3	2.3	2.3	3.0	3.3
Peppermint Cooler	2.5	2.7	3.2	3.0	3.2	3.2
Stardust Orchid	2.5	2.8	3.8	3.3	3.7	4.0
Titan Blush	2.7	3.0	4.0	4.0	3.2	3.3
Titan Burgundy	2.7	3.0	3.8	3.5	3.7	3.0
Titan Lilac	2.0	2.8	3.3	3.3	3.8	3.7
Titan Lavender Halo	2.7	3.0	3.0	3.0	3.0	3.8
Titan Polka Dot	2.5	2.8	3.5	3.8	3.0	3.7
Victory Cranberry	2.7	2.8	4.0	3.5	2.3	4.0

^z Rating scale: 1 = Poor (Plants not uniform in growth habit. Slow or no growth. Overall, a plant that you would not want in your garden) 2 = Fair (Plants not uniform in growth habit. Poor growth. Not a satisfactory plant.) 3 = Good (Plants fairly uniform in growth habit. Growing average. Not spectacular, just an average plant.) 4 = Very Good (Plants fairly uniform in growth habit. Growth is regular and healthy. Close to perfect but some areas could be better.) 5 = Excellent (Plants uniform in growth habit. Growing rapidly. The ideal plant.)

Table 4. Floral ratings for six observation dates in 2004. ^z

Species	Cultivar	June 8	July 6	Aug 9	Aug 23	Sept 15	Oct 5
Alternanthera	Purple Knight	0.0	0.0	0.0	0.0	0.0	0.0
Angelonia	Angelmist Deep Pink	0.0	2.8	2.0	2.0	1.8	2.0
	Angelmist Lav.Stripe	2.0	3.0	3.0	2.8	2.0	0.0
	Angelmist Light Blue	1.0	2.8	1.7	1.3	2.0	2.0
	Angelmist Light Pink	2.5	3.3	1.0	1.3	1.8	0.7
	Angelmist Purple	1.5	2.0	4.0	3.2	1.5	1.0
	Angelmist Purple Stripe	1.3	2.5	2.0	1.8	1.3	2.0
	Angelmist White	1.5	1.8	0.0	2.2	1.5	2.0
	Angelmist White Imp.	.7	2.7	3.0	1.5	2.0	0.0
	Carita Light Blue	2.2	2.9	2.5	1.4	1.7	0.3
	Carita Purple	2.3	2.5	3.0	2.0	2.0	1.0
	Carita White	2.5	2.3	3.0	0.5	0.8	1.0
Argyranthemum	Santo Madiera	1.0	1.2	0.0	1.5	0.8	0.8
Coleus	Aurora Peach	0.0	0.0	0.3	1.2	3.1	4.0
	Aurora Raspberry	0.0	0.0	0.2	3.0	2.1	2.9
	Defiance	0.0	0.0	2.0	1.3	1.8	3.0
	Mississippi Sunset	0.0	0.0	1.5	2.0	2.2	3.3
	South of the Border	0.0	0.0	1.7	2.0	3.3	3.6
	Touch of Class	0.0	0.0	2.5	2.1	1.9	3.7
Felicia	Pinwheel Snow	1.0	0.8	0.0	0.7	0.5	0.5
Lantana	Landmark Gold	2.0	2.8	4.0	2.5	3.3	4.5
	Landmark Peach Sunrise	2.0	2.8	2.8	2.3	1.8	0.8
	Lucky White	1.8	3.0	3.0	2.8	3.0	3.3
	Pink Dawn	3.5	2.3	2.3	3.3	3.0	2.8
Perilla	Magilla	0.0	0.0	0.0	0.0	0.0	0.0
	Shisho Red	0.0	0.0	0.8	2.5	3.0	3.0
Plectranthus	Mona Lavender	0.0	0.0	0.9	0.5	1.8	3.5
	Silver Shield	0.0	0.0	0.6	1.8	3.8	2.6
Verbena	Aztec Magic Purple	0.8	1.3	2.2	2.0	2.0	1.3
	Aztec Red Velvet	1.3	1.9	2.9	3.1	3.2	3.8

	Aztec Wild Rose	1.2	2.2	1.9	2.6	1.8	2.7
Vinca	Big Ruby	2.0	2.5	3.7	2.0	2.5	3.8
	Cooler Deep Orchid	1.7	2.0	2.5	2.7	2.8	3.0
	Jaio Scarlet Eye	2.0	2.0	3.7	1.5	4.0	3.3
	Mediterranean Pink	1.3	2.3	4.0	1.8	4.0	3.2
	Mediterranean Punch	1.8	1.8	3.5	2.2	4.0	2.3
	Pacifica Magenta	1.3	2.5	3.8	2.2	2.7	2.8
	Halo						
	Pacifica Punch Halo	2.0	2.3	2.3	1.8	3.3	4.0
	Peppermint Cooler	2.0	1.5	3.5	2.2	1.7	2.7
	Stardust Orchid	1.7	2.3	3.7	2.0	1.8	3.2
	Titan Blush	2.3	3.0	4.0	2.2	2.5	4.0
	Titan Burgundy	1.5	2.2	3.2	2.2	2.7	2.8
	Titan Lilac	1.8	2.5	3.2	2.2	2.7	2.8
	Titan Lavender Halo	1.7	1.8	2.0	3.0	3.3	3.3
	Titan Polka Dot	1.8	1.8	3.3	2.0	2.7	4.0
	Victory Cranberry	1.5	2.0	3.5	1.8	3.3	3.3

^z Rating scale: 1 = Poor (Little to no blooming. Plants not uniform in flower form and color. Overall, a plant that you would not want in your garden) 2 = Fair (Poor blooming. Plants not uniform, flower form and color. Not a satisfactory plant.) 3 = Good (Satisfactory blooming. Plants fairly uniform in flower form and color. Not spectacular, just an average plant.) 4 = Very Good (Fairly profuse blooming. Plants fairly uniform in flower form and color. Close to perfect but some areas could be better.) 5 = Excellent (Profuse blooming. Plants uniform in flower form and color. The ideal plant.)

Table 5. Uniformity ratings for six observation dates in 2004. ^z

Species	Cultivar	June 8	July 7	Aug 9	Aug 23	Sept 15	Oct 5
Alternanthera	Purple Knight	2.2	2.0	3.0	2.7	3.4	2.8
Angelonia	Angelmist Deep Pink	2.5	3.0	3.0	3.5	3.0	2.0
	Angelmist Lav.Stripe	3.0	3.2	4.0	3.7	3.0	4.0
	Angelmist Light Blue	3.0	3.2	4.0	3.9	2.3	3.0
	Angelmist Light Pink	2.8	2.3	4.0	4.0	4.0	1.8
	Angelmist Purple	3.0	3.0	4.0	3.3	3.0	4.0
	Angelmist Purple Stripe	3.0	3.0	3.0	2.8	3.0	3.0
	Angelmist White	3.0	3.0	4.0	4.0	2.8	3.0
	Angelmist White Imp.	2.0	2.7	4.0	3.0	3.0	3.0
	Carita Light Blue	3.0	2.6	3.2	2.7	3.0	3.0
	Carita Purple	3.0	3.0	4.0	4.0	3.0	2.7
	Carita White	2.5	2.7	4.0	3.0	2.0	2.2
Argyranthemum	Santo Madiera	2.3	1.7	1.0	1.0	1.0	1.7
Coleus	Aurora Peach	2.8	2.9	3.7	3.8	3.0	3.7
	Aurora Raspberry	2.5	2.6	2.8	3.3	3.1	3.4
	Defiance	2.5	2.8	4.0	4.0	4.0	2.0
	Mississippi Sunset	2.8	2.8	3.3	3.5	3.6	4.0
	South of the Border	2.1	2.2	2.4	2.8	2.9	2.8
	Touch of Class	2.6	2.5	3.8	3.6	3.7	3.5
Felicia	Pinwheel Snow	2.2	2.0	2.0	2.0	2.0	1.0
Lantana	Landmark Gold	3.0	3.0	3.8	3.0	3.0	5.0
	Landmark Peach Sunrise	3.0	3.0	2.0	1.8	3.0	2.0
	Lucky White	1.8	3.0	3.0	2.8	3.0	3.0
	Pink Dawn	3.0	3.0	3.0	3.0	2.0	2.0
Perilla	Magilla	2.7	4.0	4.0	3.0	3.0	4.0
	Shisho Red	2.8	3.0	3.0	3.0	3.0	2.5
Plectranthus	Mona Lavender	1.8	2.0	1.0	3.1	3.0	3.5
	Silver Shield	1.6	2.0	2.3	3.1	3.0	3.6
Verbena	Magic Purple	2.2	1.7	2.0	3.0	2.7	2.0
	Aztec Red Velvet	2.9	1.7	2.5	2.0	3.0	4.0
	Aztec Wild Rose	3.0	2.0	2.6	2.0	3.0	3.0

Vinca	Big Ruby	2.3	4.0	4.0	4.0	4.0	5.0
	Cooler Deep Orchid	1.7	2.0	2.0	2.0	2.0	3.0
	Jaio Scarlet Eye	2.0	2.0	3.0	3.0	3.0	3.2
	Mediterranean Pink	3.0	3.0	3.5	3.5	3.5	3.0
	Mediterranean Punch	2.0	4.0	3.0	3.0	3.0	4.0
	Pacifica Magenta Halo	3.0	3.0	3.0	3.0	2.0	2.7
	Pacifica Punch Halo	2.0	2.0	2.0	2.0	2.0	3.8
	Peppermint Cooler	3.0	3.0	3.0	3.0	2.0	2.0
	Stardust Orchid	2.7	3.0	3.0	3.0	3.0	4.0
	Titan Blush	2.2	3.0	4.0	3.0	2.7	3.0
	Titan Burgundy	3.0	2.3	3.0	3.0	3.0	2.0
	Titan Lilac	2.0	2.3	3.3	3.3	3.0	3.0
	Titan Lavender Halo	2.0	1.7	2.0	2.0	2.7	3.0
	Titan Polka Dot	2.7	2.7	3.3	3.0	3.0	4.0
	Victory Cranberry	3.0	2.3	4.0	4.0	4.0	3.0

^z Rating scale: 1 = Poor (Plants not uniform in growth habit, flower form,. Overall, a plant that you would not want in your garden) 2 = Fair (Plants not uniform in growth habit, flower form. Not a satisfactory plant.) 3 = Good (Plants fairly uniform in growth habit, flower form. Not spectacular, just an average plant.) 4 = Very Good (Plants fairly uniform in growth habit, flower form. Close to perfect but some areas could be better.) 5 = Excellent (Plants uniform in growth habit, flower form. The ideal plant.)

Table 6. Uniqueness ratings for six observation dates in 2004. ^z

Species	Culivar	June 8	July 7	Aug 9	Aug 23	Sept 15	Oct 5
Alternanthera	Purple Knight	2.8	2.4	3.0	3.0	3.0	4.0
Angelonia	Angelmist Deep Pink	2.0	2.0	3.0	3.0	3.0	3.0
	Angelmist Lav.Stripe	3.0	2.0	2.0	3.0	3.0	3.0
	Angelmist Light Blue	2.8	2.0	2.0	2.3	2.3	3.0
	Angelmist Light Pink	3.0	4.0	4.0	4.0	4.0	3.0
	Angelmist Purple	2.0	2.7	3.0	3.0	2.0	3.0
	Angelmist Purple Stripe	2.2	2.3	4.0	4.0	4.0	4.0
	Angelmist White	2.0	2.0	2.0	2.0	3.0	3.0
	Angelmist White Imp.	2.0	2.0	3.0	3.0	3.0	2.0
	Carita Light Blue	1.7	2.2	2.7	2.3	2.7	2.7
	Carita Purple	3.0	3.0	3.0	3.0	3.0	2.9
	Carita White	2.0	2.0	3.0	1.8	3.0	3.0
Argyranthemum	Santo Madiera	2.0	2.0	1.0	1.0	1.0	2.0
Coleus	Aurora Peach	3.0	3.0	3.1	3.0	3.0	3.0
	Aurora Raspberry	3.0	3.0	4.0	3.0	3.0	2.9
	Defiance	3.0	3.0	4.0	3.0	3.0	2.0
	Mississippi Sunset	2.4	2.4	3.0	3.0	3.0	2.3
	South of the Border	2.9	2.9	3.6	3.4	3.0	2.6
	Touch of Class	2.2	2.2	3.2	3.0	3.0	3.0
Felicia	Pinwheel Snow	2.0	2.0	1.0	2.0	1.0	2.0
Lantana	Landmark Gold	4.0	3.0	4.0	3.0	3.0	3.0
	Landmark Peach	4.0	3.0	2.0	3.0	2.0	5.0
	Sunrise						
	Lucky White	2.5	3.0	3.0	2.0	2.0	2.0
	Pink Dawn	3.0	3.0	3.0	2.0	3.0	2.0
Perilla	Magilla	3.2	5.0	3.0	4.0	4.0	5.0
	Shisho Red	3.3	4.0	4.0	3.0	3.0	4.0
Plectranthus	Mona Lavender	2.4	2.6	2.0	3.0	3.0	4.0
	Silver Shield	2.5	2.8	3.0	3.0	3.0	4.0
Verbena	Aztec Magic Purple	2.2	2.0	3.0	3.0	3.0	2.0
	Aztec Red Velvet	2.9	3.0	3.0	3.0	3.0	5.0
	Aztec Wild Rose	3.0	3.0	3.0	3.0	3.0	3.0

Vinca	Big Ruby	3.0	3.0	3.0	3.0	3.0	4.0
	Cooler Deep Orchid	2.2	3.0	3.0	3.0	3.0	2.0
	Jaio Scarlet Eye	3.0	3.0	4.0	4.0	4.0	3.0
	Mediterranean Pink	2.5	3.0	4.0	4.0	4.0	2.0
	Mediterranean Punch	2.5	3.0	2.0	4.0	4.0	4.0
	Pacifica Magenta Halo	2.0	3.0	2.0	2.0	3.0	2.0
	Pacifica Punch Halo	2.0	3.0	3.0	3.0	3.0	3.0
	Peppermint Cooler	2.3	2.7	2.0	2.2	3.0	2.0
	Stardust Orchid	2.0	3.0	4.0	4.0	4.0	3.0
	Titan Blush	2.0	2.8	5.0	4.0	3.5	3.0
	Titan Burgundy	3.0	3.0	4.0	4.0	3.0	3.0
	Titan Lilac	2.3	3.0	3.0	3.0	3.0	3.0
	Titan Lavender Halo	3.0	2.0	3.0	3.0	2.0	4.0
	Titan Polka Dot	2.2	3.0	3.0	3.0	4.0	3.0
	Victory Cranberry	3.0	3.0	3.0	3.0	3.0	3.0

^z Rating scale: 1= Poor (Plants very poor. No distinguishing characteristics.) 2 = Fair (Plants poor. A few things to notice but no stand out qualities.) 3 = Good (Plants good. A few noticeable qualities. Not spectacular, just an average plant.) 4 = Very Good (Plants showing some quality characteristics. Close to perfect but some areas could be better.) 5 = Excellent (Plants showing outstanding qualities. The ideal plant.)

Table 7. Insect ratings for six observation dates in 2004.^z

Species	Cultivar	June 8	July 6	Aug 9	Aug 23	Sept 15	Oct 5
Alternanthera	Purple Knight	3.0	3.0	4.0	3.0	3.0	2.0
Angelonia	Angelmist Deep Pink	2.0	3.0	3.0	4.0	4.0	3.0
	Angelmist Lav.Stripe	3.0	3.0	3.0	4.0	3.0	3.0
	Angelmist Light Blue	3.0	3.0	2.0	3.3	3.0	4.0
	Angelmist Light Pink	3.0	3.0	4.0	4.0	4.0	3.0
	Angelmist Purple	3.0	3.0	3.0	3.0	4.0	3.0
	Angelmist Purple Stripe	2.0	2.0	4.0	4.0	4.0	4.0
	Angelmist White	3.0	3.0	3.0	3.0	3.0	3.0
	Angelmist White Imp.	3.0	3.0	4.0	4.0	3.0	3.0
	Carita Light Blue	3.0	3.0	3.3	3.3	3.0	2.8
	Carita Purple	3.0	3.0	3.0	3.3	3.0	3.0
	Carita Light Blue	3.0	3.0	3.0	3.3	3.3	3.0
	Carita White	3.0	3.0	3.0	3.0	4.0	3.0
Argyranthemum	Santo Madiera	2.8	3.0	3.0	3.0	3.0	1.0
Coleus	Aurora Peach	2.8	3.0	3.9	3.0	3.0	2.9
	Aurora Raspberry	3.0	3.0	4.0	3.0	3.0	3.0
	Defiance	3.0	3.0	4.0	3.0	3.0	3.0
	Mississippi Sunset	2.3	2.3	3.7	3.8	3.7	1.0
	South of the Border	2.0	2.6	3.4	3.4	3.4	2.2
	Touch of Class	3.0	3.0	3.2	3.5	3.0	1.31.0
Felicia	Pinwheel Snow	3.0	3.0	3.0	3.0	3.0	2.0
Lantana	Landmark Gold	3.0	3.0	4.0	3.0	3.0	3.0
	Landmark Peach Sunrise	3.0	3.0	4.0	3.0	2.0	4.0
	Lucky White	3.0	3.0	3.0	2.0	3.0	3.0
	Pink Dawn	3.0	4.0	3.0	3.0	3.0	2.0
Perilla	Magilla	3.0	4.0	3.0	4.0	3.0	2.0
	Shisho Red	3.0	3.0	4.0	4.0	4.0	1.0
Plectranthus	Mona Lavender	3.0	3.0	3.0	3.0	3.0	4.0
	Silver Shield	3.0	3.0	3.5	3.0	3.0	4.0
Verbena	Aztec Magic Purple	3.0	3.0	4.0	4.0	4.0	1.0
	Aztec Red Velvet	2.9	3.0	4.0	4.0	3.0	4.0

	Aztec Wild Rose	3.0	3.0	4.0	4.0	4.0	3.0
Vinca	Big Ruby	3.0	3.0	3.0	3.0	1.0	3.0
	Cooler Deep Orchid	2.7	3.0	3.0	3.0	3.0	5.0
	Jaio Scarlet Eye	3.0	3.0	4.0	4.0	4.0	1.0
	Mediterranean Pink	3.0	3.0	3.0	3.0	3.0	1.0
	Mediterranean Punch	2.0	3.0	3.0	4.0	3.0	3.0
	Pacifica Magenta Halo	3.0	3.0	3.0	3.0	3.0	3.0
	Pacifica Punch Halo	3.0	3.0	3.0	3.0	3.0	1.0
	Peppermint Cooler	2.0	3.0	3.0	3.0	3.0	3.0
	Stardust Orchid	2.0	3.0	3.0	3.0	3.0	2.0
	Titan Blush	3.0	3.0	4.0	4.0	3.0	4.0
	Titan Burgundy	3.0	3.0	3.0	3.0	3.0	4.0
	Titan Lilac	2.0	3.0	3.0	3.0	3.0	5.0
	Titan Lavender Halo	2.0	2.0	3.0	2.0	2.0	1.0
	Titan Polka Dot	2.0	3.0	3.7	3.0	3.0	3.0
	Victory Cranberry	3.0	3.0	3.0	3.0	4.0	3.0

^z Rating scale: 1 = Poor (Extensive insect damage) 2 = Fair (Moderate insect damage) 3 = Good (Minimal insect damage.) 4 = Very Good (No insects present.) 5 = Excellent (No insects present.)

Table 8. Disease ratings for six observation dates in 2004. ^z

Species	Cultivar	June 8	July 6	Aug 9	Aug 23	Sept 15	Oct 5
Alternanthera	Purple Knight	1.4	1.7	2.0	2.1	1.94	3.4
Angelonia	Angelmist Deep Pink	3.0	3.0	3.0	3.0	4.0	3.0
	Angelmist Lav.Stripe	3.0	3.0	3.0	4.0	3.0	3.0
	Angelmist Light Blue	3.0	3.0	3.0	4.0	3.0	3.0
	Angelmist Light Pink	3.0	3.0	4.0	4.0	4.0	3.0
	Angelmist Purple	3.0	3.0	3.0	4.0	3.0	3.0
	Angelmist Purple Stripe	2.0	2.0	4.0	4.0	4.0	4.0
	Angelmist White	3.0	3.0	3.0	4.0	3.0	3.0
	Angelmist White Imp.	3.0	3.0	4.0	4.0	3.0	3.0
	Carita Light Blue	3.0	3.0	3.3	3.3	3.0	3.0
	Carita Purple	3.0	3.0	3.3	3.0	3.0	3.0
	Carita Light Blue	3.0	3.0	3.0	3.3	3.0	3.0
	Carita White	3.0	3.0	3.0	4.0	3.0	3.0
Argyranthemum	Santo Madiera	3.0	3.0	2.0	3.0	3.0	2.0
	Pinwheel Snow	3.0	1.0	2.0	2.0	2.0	2.0
Coleus	Aurora Peach	3.0	3.0	3.9	3.0	3.0	2.9
	Aurora Raspberry	2.9	3.0	4.0	3.1	3.0	3.0
	Defiance	2.0	3.0	4.0	4.0	3.0	3.0
	Mississippi Sunset	2.3	2.3	3.7	4.0	4.0	1.0
	South of the Border	2.6	2.6	3.4	3.4	3.4	2.2
	Touch of Class	3.0	3.0	3.2	3.8	3.8	1.3
Lantana	Landmark Gold	3.0	3.0	3.0	4.0	3.0	3.0
	Landmark Peach	3.0	4.0	3.0	3.0	2.0	4.0
	Sunrise						
	Lucky White	2.5	3.0	3.0	3.0	2.0	2.0
	Pink Dawn	3.0	4.0	3.0	3.0	3.0	2.0
Perilla	Magilla	3.0	4.0	3.0	4.0	3.0	2.0
	Shisho Red	3.0	3.0	3.0	4.0	4.0	1.0
Plectranthus	Mona Lavender	3.0	3.0	3.0	3.0	3.0	4.0
	Silver Shield	3.0	3.0	3.5	3.0	3.0	4.0
Verbena	Aztec Magic Purple	3.0	2.5	3.0	3.0	3.0	1.0
	Aztec Red Velvet	2.2	2.0	2.0	3.0	3.0	4.0
	Aztec Wild Rose	3.0	3.0	3.0	3.0	4.0	3.0

Vinca	Big Ruby	3.0	3.0	3.0	3.0	1.0	2.5
	Cooler Deep Orchid	3.0	3.0	3.0	3.0	3.0	5.0
	Jaio Scarlet Eye	3.0	3.0	3.3	4.0	3.7	1.0
	Mediterranean Pink	3.0	3.0	3.0	3.0	3.0	1.0
	Mediterranean Punch	2.3	3.0	3.0	3.0	3.0	3.0
	Pacifica Magenta Halo	3.0	3.0	2.0	3.0	3.0	3.0
	Pacifica Punch Halo	3.0	3.0	3.0	3.0	3.0	1.0
	Peppermint Cooler	2.0	3.0	3.0	3.0	3.0	3.0
	Stardust Orchid	2.0	3.0	3.0	3.0	3.0	2.0
	Titan Blush	3.0	3.0	4.0	4.0	3.0	4.0
	Titan Lilac	3.0	3.0	3.0	2.0	3.0	3.0
	Titan Lavender Halo	2.7	3.0	3.0	3.0	3.0	5.0
	Titan Polka Dot	3.0	3.0	3.0	2.0	2.0	1.0

^z Rating scale: 1 = Poor (Extensive disease damage) 2 = Fair (Moderate disease damage) 3 = Good (Minimal disease damage.) 4 = Very Good (No disease present.) 5 = Excellent (No disease present or evidence of damage.)