

# The Ohio State University Learning Gardens Pansy/Viola Cultivar Trial, 2003 - 2004

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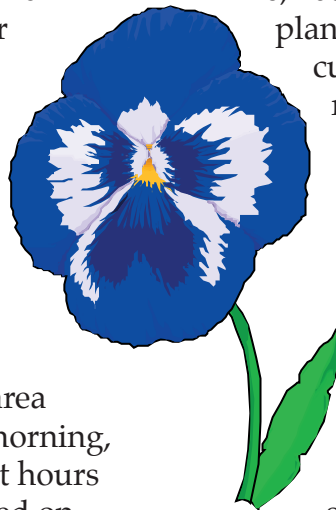
This was the fourth year we conducted our Fall Pansy and Viola Trials. Plants were transplanted outside in the fall and evaluated throughout the winter and the spring. This time, we also left the plants in-ground through July, to assess heat tolerance.

**Trial Site Location:** The in-ground trial site is adjacent to our departmental buildings on the Columbus Campus of The Ohio State University. The area receives full shade most of the morning, followed by approximately eight hours of full sun. The area was rototilled on September 15, 2003, just prior to planting.

**Plant Material:** Seed from participating breeders and distributors was grown on once again for us this year by Bob Barnitz of Bob's Market & Greenhouse, Mason, West Virginia. There were 33 Pansy entries and 17 Violas, bringing the total number of cultivars evaluated to 50.

**Procedure:** Plants were received in our greenhouses on September 23, 2003, in 2-1/4" cell paks. A Plantshield drench (5 oz/100 gal) was applied on the same

day. Twelve plants per cultivar were transplanted in-ground on September 26, 2003. Spacing was 10" between plants within a cultivar, 14" between cultivars, and 20" between main rows. Post-planting fertilization occurred on October 7 with 200 ppm N 20-10-20 via Dosatron.



**Weather Conditions:** The initial planting period was cool with some rain. Early light frosts occurred in the surrounding areas from September 28, 2003, through October 4, 2003, but the trial site itself was unaffected.

Warmer weather came back on October 5, 2003, with 70°F days and 50°F nights, which kicked the plants into gear. The rest of October showed average temperatures, and from November 2, 2003, to November 5, 2003, unseasonably warm 70°F days returned again.

The first hard freeze in the area occurred on November 9, 2003. Some warmer temps again followed. Overall mild temperatures occurred through the beginning of January 2004, and on January 5, plants were noted to be blooming and "looking good."

Cold temperatures then followed in mid-January with daytime highs in the 20°Fs, and night temps down to 9°F. The lowest temperature experienced by the plants

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was -2.5°F on January 31, 2004. The rest of the winter provided cold temperature conditions for good overwintering assessment. The period from March through the beginning of April 2004 was cooler than average. Frosts occurred through the beginning of May.

**Evaluations and Results:** Evaluations were performed in both fall 2003 and spring 2004. Plant characteristics were evaluated in depth by our core team of evaluators. Ratings were based on a 1 to 5 scale (1 = Not Acceptable, 5 = Excellent). The following characteristics were evaluated:

- Flower Quality: Aesthetics, color, health, and appearance.
- Flower Number: 1 = Low, 5 = Very floriferous.
- Foliage: Vegetative vigor, aesthetics / color, health, and appearance.
- Vigor / Overwintering: 1 = Poor; 5 = Overwintered very well; excellent vigor (for spring rating only).
- Overall: Overall rating for the group, taking all the previous criteria into consideration.

Results can be found in the following tables:

## 1: Plant Characteristic Evaluations

These were performed by a core team of evaluators, which was comprised of the trials leader, trials coordinator, and greenhouse supervisor.

Fall — performed October 29, 2003

Pansy: Table 1  
Viola: Table 2

Spring — performed May 6, 2004

Pansy: Table 3  
Viola: Table 4

## Top Performers

### Fall Evaluation

**Pansies:** Nature Ocean, Nature Blue, Dynamite Lavender

**Violas:** Gem Antique Lavender, Sorbet Beaconsfield, Gem Rose w/ Blotch, Gem Pink Shades

### Spring Evaluation

**Pansies:** Nature Blue, Ultima Morpho, Nature Yellow, Dynamite Lavender

**Violas:** Gem Yellow, Sorbet Blackberry Cream, Sorbet Beaconsfield, Sorbet Plum Velvet, Penny Violet Flare.

## 2: Consumer Preference Evaluations

The Consumer Preference Evaluations were held in fall 2003 and in spring 2004 and were performed by our team of Master Gardener Volunteers. The fall evaluation was based purely on personal preference, on a 1 to 5 scale (5 = Exceptional), rating the overall appearance of the individual cultivars. In the spring evaluation, the overall rating was based on an average of separate plant vigor and aesthetics ratings.

Fall — performed November 18, 2003

Pansy: Table 5  
Viola: Table 6

Spring — performed April 27, 2004

Pansy: Table 7  
Viola: Table 8

## Top Performers (Consumer Evaluation)

### Fall Evaluation

**Pansies:** Nature Blue, Nature Ocean, Clear Sky True Blue, Crystal Bowl Purple, Flamenco Mix, Whiskers Yellow, and Dynamite Lavender.

These entries were all rated 4.0 and above. Nature Blue, Nature Ocean, and Dynamite Lavender were also top finishers in the Plant Characteristics Evaluations.

**Violas:** Sorbet Beaconsfield, Sorbet Blue Heaven, Penny Yellow Jump-Up, and Gem Yellow.

These all rated 4.1 and above. Sorbet Beaconsfield also received top ratings in the Plant Characteristics evaluations.

### Spring Evaluation

**Pansies:** Ultima Morpho, Dynamite Lavender, Nature Orange, Clear Sky True Blue, Nature Lemon Yellow, and Majestic Giants II Patricia.

These all rated 4.2 and above. Ultima Morpho and Dynamite Lavender also received top ratings in the plant characteristics evaluations.

**Violas:** Sorbet Blue Heaven, Sorbet Beaconsfield, Penny Violet Flare, Gem Yellow, Gem Rose w/Blotch, Sorbet Plum Velvet, Sorbet Coconut Delight, Sorbet Antique Shades, Sorbet Blackberry Cream, and Penny Yellow Jump-Up.

These all rated 4.2 and above. As evidenced by the long list, many Violas rated highly in the spring for a tremendous show. Penny Violet Flare, Gem Yellow, Sorbet Plum Violet, and Sorbet Blackberry Cream also received top ratings in the plant characteristics evaluations.

## Additional Comments on Fall and Spring Consumer Preference Evaluations

The entries listed here placed high in BOTH fall and spring ratings:

**Pansies:** Clear Sky True Blue and Dynamite Lavender.

**Violas:** Sorbet Beaconsfield, Sorbet Blue Heaven, Penny Yellow Jump-Up, and Gem Yellow.

## 3: Heat-Tolerance Evaluation

A Heat-Tolerance Evaluation was conducted by the Trials Coordinator on July 13, 2004, just prior to the conclusion of the trial. The results from this rating can be found in Table 9.

### Results of Mid-July Rating:

Best looking **Pansies** in the heat of summer (rating of 4.0 and above) were Dynamite Beacon Blue, Dynamite Purple, and Crystal Bowl Purple.

The following also looked good, with a rating of 3.8: Nature Orange, Dynamite Blue Center, Delta Premium Pure White, Delta Premium Pure Primrose, and Dynamite Lavender.

Best **Violas** in the heat of summer (rating of 4.0 and above) were Sorbet Blue Heaven, Gem Pink Shades, and Gem Antique Lavender.

Also good with a rating of 3.8 were Penny Violet Flare and Sorbet Coconut Duet.

## Trial Coordinator Comments

As in the past three years of winter trials of pansies and violas here in Columbus, Ohio (Zone 6), we recorded an approximate 95% overall survival rate for the trial plants. These plants are very

low maintenance and offer an excellent addition to the fall color palette, as well as early and vibrant color in the spring. On average, the pansies and violas here burst into bloom ahead of daffodils and tulips.

In recent years, we have been receiving more of the “panola” type entries. These plants are an intermediate between pansies and violas, with vegetative vigor more closely resembling the hardier type viola. Flower size is midway between that of the pansy and viola. This group of entries has tended to perform very well in this area.

## **Acknowledgments**

We would like to acknowledge our dedicated team of Master Gardener Volunteers who helped in all phases of this trial. Thanks to David Snodgrass, Greenhouse Supervisor, and Annette Duetz, Learning Gardens Supervisor, for their assistance. We thank Bob Barnitz of Bob’s Market & Greenhouse for seeding and growing on the transplants. We thank Bioworks for donating Plantshield. And we thank the participating companies for their sponsorship in this year’s trial.

For trial results, see the tables on the following pages.

## Ohio State 2003-2004 Pansy/Viola Trial:

Series	Cultivar	Seed Company	Flower Appearance	Flower Number	Foliage	Overall
Nature	Ocean	TAKII	4.0	3.3	3.5	3.5
Nature	Blue	TAKII	4.0	3.3	3.5	3.5
Dynamite	Lavender	Sakata	3.8	2.3	3.0	3.3
Whiskers	Yellow	Ball	4.0	1.3	2.5	2.8
Whiskers	Purple & White	Ball	4.0	1.3	2.5	2.8
Nature	Orange	TAKII	3.8	2.3	2.8	2.8
Clear Sky	True Blue	Syngenta	3.8	1.5	3.0	2.8
Nature	Red w/ Blotch	TAKII	3.5	2.8	2.8	2.8
Dynamite	Purple	Sakata	3.5	1.5	2.8	2.8
Fama	Dark Eyed Carmine	BENARY	3.3	2.3	2.5	2.8
Fama	Peach Shades	BENARY	3.3	2.0	2.5	2.8
Nature	Pink Shades	TAKII	3.0	2.8	2.8	2.8
Dynamite	Blue Center	Sakata	3.0	1.5	2.5	2.8
Nature	Yellow	TAKII	3.5	1.8	2.5	2.5
Delta Premium	Pure Primrose	Syngenta	3.5	1.8	2.3	2.5
Nature	Lemon Yellow	TAKII	3.3	2.0	2.5	2.5
Delta Premium	Yellow w/ Purple Wing	Syngenta	3.3	1.8	2.5	2.5
Crystal Bowl	Purple	Sakata	3.0	2.0	2.8	2.5
Flamenco	Mix	Sakata	3.0	2.0	2.3	2.5
Delta Premium	Pure White	Syngenta	2.8	2.0	2.8	2.5
Delta Premium	Pure Violet	Syngenta	2.8	1.8	2.5	2.5
Dynamite	Beacon Blue	Sakata	2.8	1.5	2.8	2.5
Ultima	Morpho	Sakata	2.5	1.8	3.0	2.5

**Table 1 (continued).\* Pansy Fall Evaluation, October 29, 2004.**

<b>Series</b>	<b>Cultivar</b>	<b>Seed Company</b>	<b>Flower Appearance</b>	<b>Flower Number</b>	<b>Foliage</b>	<b>Overall</b>
Dynamite	Wine Flash	Sakata	2.8	2.0	2.5	2.3
Majestic Giant II	Rosalyn	Sakata	2.8	1.8	2.8	2.3
Colossus	Purple w/ Blotch	Syngenta	2.8	1.8	2.8	2.3
Majestic Giant II	Patricia	Sakata	2.8	1.5	2.8	2.3
Fama	See Me Improved	BENARY	2.8	1.5	2.5	2.3
Fama	White	BENARY	2.0	1.5	2.5	2.3
Nature	Rose w/ Blotch	TAKII	2.8	1.8	2.0	2.0
Fama	Silver Blue Improved	BENARY	2.5	1.5	2.3	2.0
Accord	Black Beauty	Goldsmith	2.3	1.5	2.5	2.0
Dynamite	Scarlet	Sakata	2.3	1.3	1.8	1.8

\* Ranked in descending order of Overall rating.  
Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).

**Table 2. \* Viola Fall Evaluation, October 29, 2004.**

<b>Series</b>	<b>Cultivar</b>	<b>Seed Company</b>	<b>Flower Appearance</b>	<b>Flower Number</b>	<b>Foliage</b>	<b>Overall</b>
Gem	Antique Lavender	TAKII	4.5	5.0	3.5	4.0
Sorbet	Beaconsfield	Pan-American	3.8	3.0	4.5	4.0
Gem	Rose w/ Blotch	TAKII	3.5	4.0	3.0	3.5
Gem	Pink Shades	TAKII	3.0	3.5	3.0	3.5
Gem	Yellow	TAKII	3.3	3.3	3.3	3.3
Sorbet	Coconut Duet	Pan-American	4.3	3.5	2.8	3.0
Gem	Red w/ Blotch	TAKII	3.8	2.0	3.0	3.0
Sorbet	Blue Heaven	Pan-American	3.8	2.5	2.8	2.8
Sorbet	Plum Velvet	Pan-American	3.5	2.0	3.0	2.8
Gem	Antique Pink	TAKII	2.5	2.8	3.5	2.8
Sorbet	Coconut	Pan-American	2.3	2.3	2.8	2.8
Sorbet	Antique Shades	Pan-American	3.5	2.3	2.5	2.5
Sorbet	Blackberry Cream	Pan-American	3.0	2.0	3.0	2.5
Penny	Violet Flare	Pan-American	2.3	2.0	2.8	2.5
Gem	Antique Apricot	TAKII	2.0	2.0	3.5	2.5
Gem	Orange	TAKII	2.8	2.0	2.5	2.0
Penny	Yellow Jump-up	Goldsmith	2.8	1.8	2.8	2.0

\* Ranked in descending order of Overall rating.  
Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).

**Table 3.\* Pansy Spring Evaluation, May 6, 2004.**

<b>Series</b>	<b>Cultivar</b>	<b>Seed Company</b>	<b>Vigor/ Over- wintering</b>	<b>Flower Appear- ance</b>	<b>Flower Number</b>	<b>Foliage</b>	<b>Overall</b>
Nature	Blue	TAKII	4.0	5.0	4.5	4.0	4.5
Ultima	Morpho	Sakata	4.5	4.5	4.0	4.0	4.5
Nature	Yellow	TAKII	3.8	4.5	4.3	4.3	4.3
Dynamite	Lavender	Sakata	4.8	4.3	4.3	4.0	4.3
Nature	Lemon Yellow	TAKII	3.0	4.5	3.5	3.8	4.0
Delta Premium	Yellow w/ Purple Wing	Syngenta	2.8	4.5	3.3	4.3	4.0
Whiskers	Purple & White	Ball	4.0	4.5	3.3	4.3	4.0
Nature	Orange	TAKII	5.0	3.8	4.0	5.0	4.0
Nature	Rose w/ Blotch	TAKII	4.8	3.5	4.0	4.3	4.0
Nature	Ocean	TAKII	3.0	3.5	4.0	3.5	4.0
Whiskers	Yellow	Ball	3.8	4.3	3.5	3.8	3.8
Majestic Giant II	Patricia	Sakata	4.0	4.3	3.3	4.0	3.8
Fama	See Me Improved	BENARY	2.8	3.8	3.5	2.8	3.8
Nature	Red w/ Blotch	TAKII	4.0	3.8	3.8	4.0	3.5
Dynamite	Purple	Sakata	4.8	3.8	3.5	3.8	3.5
Nature	Pink Shades	TAKII	4.5	3.3	3.8	4.0	3.5
Crystal Bowl	Purple	Sakata	4.8	2.8	3.3	4.0	3.5
Colossus	Purple w/ Blotch	Syngenta	4.3	3.5	3.5	4.0	3.3
Dynamite	Beacon Blue	Sakata	4.0	3.5	3.5	3.8	3.0
Dynamite	Wine Flash	Sakata	4.8	3.5	3.0	3.8	3.0
Delta Premium	Pure White	Syngenta	3.3	3.3	3.0	3.0	3.0
Clear Sky	True Blue	Syngenta	4.8	3.0	3.5	4.0	3.0
Fama	Silver Blue Improved	BENARY	2.5	3.0	3.5	3.8	3.0

**Table 3 (continued).\* Pansy Spring Evaluation, May 6, 2004.**

<b>Series</b>	<b>Cultivar</b>	<b>Seed Company</b>	<b>Vigor/ Over- wintering</b>	<b>Flower Appear- ance</b>	<b>Flower Number</b>	<b>Foliage</b>	<b>Overall</b>
Fama	Peach Shades	BENARY	2.5	3.0	3.5	3.5	3.0
Majestic Giant II	Rosalyn	Sakata	3.5	3.0	2.8	3.0	3.0
Dynamite	Blue Center	Sakata	4.8	2.8	3.5	3.3	3.0
Accord	Black Beauty	Goldsmith	5.0	2.8	3.0	4.8	3.0
Fama	White	BENARY	3.8	3.0	3.3	4.0	2.9
Flamenco	Mix	Sakata	2.0	3.8	3.0	2.8	2.8
Fama	Dark Eyed Carmine	BENARY	2.8	2.8	3.0	3.0	2.8
Dynamite	Scarlet	Sakata	3.5	2.8	2.8	3.0	2.8
Delta Premium	Pure Violet	Syngenta	2.5	2.8	2.8	2.8	2.8
Delta Premium	Pure Primrose	Syngenta	4.8	2.0	2.5	3.8	2.5

\*Ranked in descending order of Overall rating.  
Rating Scale: 1- 5 (1 = Not Acceptable; 5 = Excellent).

**Table 4.\* Viola Spring Evaluation, May 6, 2004.**

<b>Series</b>	<b>Cultivar</b>	<b>Seed Company</b>	<b>Vigor/ Over- wintering</b>	<b>Flower Appear- ance</b>	<b>Flower Number</b>	<b>Foliage</b>	<b>Overall</b>
Gem	Yellow	TAKII	5.0	5.0	5.0	5.0	5.0
Sorbet	Black- berry Cream	Pan- American	3.8	5.0	5.0	5.0	4.8
Sorbet	Beacons- field	Pan- American	4.8	5.0	4.8	5.0	4.8
Sorbet	Plum Velvet	Pan- American	4.8	5.0	4.8	5.0	4.8
Penny	Violet Flare	Pan- American	5.0	4.8	4.5	5.0	4.8
Sorbet	Coconut Duet	Pan- American	4.0	5.0	4.5	3.8	4.5
Sorbet	Antique Shades	Pan- American	4.8	4.5	4.5	4.3	4.5
Gem	Rose w/ Blotch	TAKII	4.5	4.5	4.4	4.5	4.5
Penny	Yellow Jump-up	Goldsmith	3.5	5.0	4.3	5.0	4.3
Sorbet	Coconut	Pan- American	4.5	4.0	4.4	4.0	4.3
Sorbet	Blue Heaven	Pan- American	2.9	4.3	4.8	4.5	4.0
Gem	Pink Shades	TAKII	4.8	4.0	4.3	4.5	4.0
Gem	Antique Lavender	TAKII	3.5	4.0	4.3	3.8	4.0
Gem	Orange	TAKII	4.5	4.0	3.8	5.0	4.0
Gem	Antique Pink	TAKII	3.0	3.8	4.3	3.8	4.0
Gem	Antique Apricot	TAKII	4.0	3.0	5.0	3.8	3.9
Gem	Red w/ Blotch	TAKII	2.5	4.5	4.5	4.5	3.5

\* Ranked in descending order of Overall rating.  
Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).

**Table 5.\* Pansy Consumer Preference Evaluation, Fall, Performed November 18, 2003.**

Series	Cultivar	Seed Company	Average OVERALL	Standard Deviation
Nature	Blue	TAKII	4.6	0.5
Nature	Ocean	TAKII	4.5	0.6
Clear Sky	True Blue	Syngenta	4.4	0.6
Crystal Bowl	Purple	Sakata	4.3	0.7
Flamenco	Mix	Sakata	4.2	0.5
Whiskers	Yellow	Ball	4.2	0.9
Dynamite	Lavender	Sakata	4.0	0.1
Whiskers	Purple & White	Ball	3.9	0.8
Fama	See Me Improved	BENARY	3.8	0.4
Nature	Red w/Blotch	TAKII	3.8	0.4
Dynamite	Blue Center	Sakata	3.7	0.6
Dynamite	Wine Flash	Sakata	3.7	0.7
Delta Premium	Yellow w/Purple Wing	Syngenta	3.7	0.5
Nature	Yellow	TAKII	3.6	0.5
Nature	Pink Shades	TAKII	3.6	0.6
Nature	Orange	TAKII	3.6	1.1
Nature	Rose w/ Blotch	TAKII	3.5	0.6
Nature	Lemon Yellow	TAKII	3.4	1.0
Delta Premium	Pure Violet	Syngenta	3.4	0.6
Dynamite	Purple	Sakata	3.3	0.4
Dynamite	Beacon Blue	Sakata	3.3	0.4
Fama	Silver Blue Improved	BENARY	3.3	0.7
Majestic Giant II	Rosalyn	Sakata	3.3	0.4
Fama	Dark Eyed Carmine	BENARY	3.1	0.5
Fama	Peach Shades	BENARY	3.1	0.7
Ultima	Morpho	Sakata	3.1	0.6
Delta Premium	Pure White	Syngenta	3.1	1.0
Accord	Black Beauty	Goldsmith	2.9	1.4
Dynamite	Scarlet	Sakata	2.7	0.6
Majestic Giant II	Patricia	Sakata	2.7	0.6
Colossus	Purple w/ Blotch	Syngenta	2.6	0.4
Fama	White	BENARY	2.4	0.4
Delta Premium	Pure Primrose	Syngenta	2.1	0.5

\* Ranked in descending order of Average Overall rating based on team of five evaluators. Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).

**Table 6.\* Viola Consumer Preference Evaluation, Fall, Performed November 18, 2003.**

<b>Series</b>	<b>Cultivar</b>	<b>Seed Company</b>	<b>Average OVERALL</b>	<b>Standard Deviation</b>
Sorbet	Beaconsfield	PanAmerican	4.4	0.8
Sorbet	Blue Heaven	PanAmerican	4.2	0.7
Penny	Yellow Jump-up	Goldsmith	4.1	0.7
Gem	Yellow	TAKII	4.1	0.7
Penny	Violet Flare	PanAmerican	3.9	0.5
Sorbet	Coconut Duet	PanAmerican	3.9	0.8
Gem	Antique Lavender	TAKII	3.9	0.4
Sorbet	Antique Shades	PanAmerican	3.9	0.5
Sorbet	Plum Velvet	PanAmerican	3.8	1.0
Gem	Red w/ Blotch	TAKII	3.6	0.5
Gem	Orange	TAKII	3.5	0.5
Sorbet	Blackberry Cream	PanAmerican	3.5	0.9
Gem	Rose w/ Blotch	TAKII	3.1	0.7
Sorbet	Coconut	PanAmerican	2.9	0.8
Gem	Pink Shades	TAKII	2.8	0.2
Gem	Antique Pink	TAKII	2.8	0.7
Gem	Antique Apricot	TAKII	2.5	0.4

\* Ranked in descending order of Average Overall rating based on team of 5 evaluators. Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).

**Table 7.\* Pansy Consumer Preference Evaluation, Spring, Performed April 27, 2004.**

<b>Series</b>	<b>Cultivar</b>	<b>Average Vigor</b>	<b>Standard Deviation Vigor</b>	<b>Average Aesthetics</b>	<b>Standard Deviation Aesthetics</b>	<b>Average OVERALL **</b>
Ultima	Morpho	4.6	0.4	4.6	0.4	4.6
Dynamite	Lavender	4.7	0.7	4.5	0.4	4.6
Nature	Orange	4.9	0.2	3.9	1.3	4.4
Clear Sky	True Blue	4.6	0.4	4.0	0.6	4.3
Nature	Lemon Yellow	4.0	0.1	4.4	0.7	4.2
Majestic Giant II	Patricia	4.4	0.4	4.0	0.7	4.2
Majestic Giant II	Rosalyn	4.0	0.6	3.8	0.9	3.9
Crystal Bowl	Purple	4.0	0.3	3.7	0.7	3.9
Dynamite	Purple	3.8	0.7	3.8	0.9	3.8
Fama	See Me Improved	3.6	0.6	3.9	0.6	3.8
Colossus	Purple w/ Blotch	3.9	0.4	3.7	0.4	3.8
Accord	Black Beauty	4.1	0.6	3.4	1.1	3.8
Delta Premium	Pure Primrose	4.2	0.6	3.3	0.9	3.7
Dynamite	Beacon Blue	3.5	0.5	3.9	0.7	3.7
Nature	Ocean	3.5	0.5	3.9	1.0	3.7
Nature	Red w/ Blotch	3.9	0.4	3.5	0.5	3.7
Whiskers	Yellow	3.7	0.5	3.6	0.7	3.7
Nature	Blue	3.4	0.4	3.6	0.4	3.5
Nature	Pink Shades	4.3	0.7	2.8	0.7	3.5
Whiskers	Purple & White	3.4	0.6	3.6	0.4	3.5
Nature	Yellow	3.6	0.4	3.4	0.7	3.5
Dynamite	Blue Center	3.7	0.4	3.3	1.0	3.5
Delta Premium	Yellow w/ Purple Wing	3.0	0.5	3.8	0.5	3.4
Dynamite	Wine Flash	3.6	0.6	3.1	0.6	3.3
Fama	White	3.7	0.6	3.0	0.5	3.3

**Table 7 (continued).\* Pansy Consumer Preference Evaluation, Spring, Performed April 27, 2004.**

<b>Series</b>	<b>Cultivar</b>	<b>Average Vigor</b>	<b>Standard Deviation Vigor</b>	<b>Average Aesthetics</b>	<b>Standard Deviation Aesthetics</b>	<b>Average OVERALL **</b>
Fama	Silver Blue Improved	2.8	0.6	3.9	0.9	3.3
Nature	Rose w/ Blotch	2.9	0.4	3.3	0.7	3.1
Delta Premium	Pure Violet	2.5	0.7	3.6	0.7	3.1
Delta Premium	Pure White	3.6	0.5	2.6	0.9	3.1
Dynamite	Scarlet	3.0	0.4	3.0	0.6	3.0
Fama	Dark Eyed Carmine	2.4	0.4	3.4	0.5	2.9
Flamenco	Mix	2.0	0.5	3.6	0.9	2.8
Fama	Peach Shades	1.6	0.4	2.9	0.6	2.3

\* Ranked in descending order of Average Overall rating based on team of 7 evaluators.

\*\* Overall rating combines vigor and aesthetics ratings.

Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).

**Table 8.\* Viola Consumer Preference Evaluation, Spring, Performed April 27, 2004.**

Series	Cultivar	Average Vigor	Standard Deviation Vigor	Average Aesthetics	Standard Deviation Aesthetics	Average OVERALL **
Sorbet	Blue Heaven	4.9	0.2	4.9	0.2	4.9
Sorbet	Beaconsfield	5.0	0.0	4.7	0.4	4.9
Penny	Violet Flare	5.0	0.0	4.6	0.4	4.8
Gem	Yellow	4.9	0.2	4.5	0.5	4.7
Gem	Rose w/ Blotch	4.7	0.4	4.2	0.7	4.4
Sorbet	Plum Velvet	5.0	0.0	3.9	0.6	4.4
Sorbet	Coconut Duet	4.5	0.4	4.2	0.8	4.4
Sorbet	Antique Shades	4.9	0.2	3.9	0.8	4.4
Sorbet	Blackberry Cream	4.9	0.2	3.6	0.9	4.3
Penny	Yellow Jump-up	4.7	0.4	3.7	0.6	4.2
Sorbet	Coconut	4.1	0.6	3.6	1.0	3.9
Gem	Antique Lavender	3.6	0.4	3.8	0.7	3.7
Gem	Pink Shades	4.3	0.4	3.1	0.7	3.7
Gem	Red w/ Blotch	3.5	0.5	3.6	0.4	3.6
Gem	Orange	3.9	0.4	3.3	0.6	3.6
Gem	Antique Apricot	4.6	0.4	2.5	1.4	3.6
Gem	Antique Pink	3.8	0.3	2.8	0.5	3.3

\* Ranked in descending order of Average Overall rating based on team of 7 evaluators.  
 \*\* Overall rating combines vigor and aesthetics ratings.  
 Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).

**Table 9.\* Pansy and Viola Best Cultivars in Summer Heat Tolerance Rating, July 13, 2004.**

Pansy			Viola		
Series	Cultivar	Heat Tolerance	Series	Cultivar	Heat Tolerance
Dynamite	Beacon Blue	4.3	Sorbet	Blue Heaven	4.5
Dynamite	Purple	4.0	Gem	Pink Shades	4.3
Crystal Bowl	Purple	4.0	Gem	Antique Lavender	4.0
Nature	Orange	3.8	Penny	Violet Flare	3.8
Dynamite	Blue Center	3.8	Sorbet	Coconut Duet	3.8
Delta Premium	Pure White	3.8	Gem	Orange	3.0
Delta Premium	Pure Primrose	3.8	Gem	Red w/ Blotch	2.8
Dynamite	Lavender	3.8			
Fama	White	3.5			
Nature	Red w/ Blotch	3.5			
Dynamite	Wine Flash	3.5			
Nature	Lemon Yellow	3.5			
Nature	Blue	3.3			
Delta Premium	Pure Violet	3.0			
Whiskers	Purple & White	3.0			
Nature	Rose w/ Blotch	2.8			
Nature	Pink Shades	2.8			
Whiskers	Yellow	2.8			
Majestic Giant II	Rosalyn	2.8			

\* Only cultivars with a rating of 2.8+ are listed here. All others fared poorly. Rating Scale: 1 - 5 (1 = Not Acceptable; 5 = Excellent).