

Colorado State University 2014-2015 Cool Season Trials Performance Report



Cool Season Trial Garden

1401 Remington Street

NE Corner of College Avenue and Lake Street

Colorado State University

Department of Horticulture and Landscape Architecture

Ft. Collins, CO. 80523

www.flowertrials.colostate.edu

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2014-2015 Cool Season Trial

Performance Report

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Introduction

This is the seventh year that Colorado State University conducted a Cool Season Trial in ground beds. It marks the fifteenth year that Annual Flower Trial Garden is located, adjacent to the Center for the Fine Arts at Colorado State University. The overall goal of this project is to determine which varieties of cool season plants are best suited for marketing and growing in the Rocky Mountain region. Initial data was recorded in October 2014, then approximately every two weeks from February-May 2015 (no data was collected in late December of 2014 and early January 2015 due to snow cover). Irrigation was also monitored throughout this time period and any additional water given to these plants was recorded. This year the cool season trials were evaluated by industry professionals and company representatives on April 29, 2015.

The cool season trials at Colorado State University have no specific operation dollars from state funds. Financial assistance, plant material, and other miscellaneous materials for the trials were acquired from sponsoring seed companies and several Colorado Greenhouse companies. Special thanks to Welby Gardens Inc. for their generous support in growing a flat of each of the cool season varieties. Some operational and staff dollars have come from the Colorado State University Agriculture Experiment Station, Extension, and the Department of Horticulture and Landscape Architecture. Seed companies that participated in this trial were: Benary Seed, Syngenta Flowers, PanAmerican Seed.

Cultural Data for the 2014-2015 Cool Season Trial Garden

PLANTING DATES

All cool season plants were planted on October 3th, 2014. All plants arrived from Welby Gardens as rooted seedlings in cell packs that were 2.25" deep. They were then transplanted into planting beds located in the Annual Flower Trial Garden at 1401 Remington Street. There were 4 plants per cell pack, and 14 cell packs were planted in each row of the beds.

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WATERING

All watering was monitored. Watering was done when natural precipitation was low and when the ground media was not saturated. The winter of 2014-15 had moderate winter precipitation compared to other winters. February was uncharacteristically wet, while March was quite dry. There was consistent snow cover on the beds during late January and the majority of February. The beds were watered using the garden's irrigation system 7 times during establishment month of October. During establishment the entries were watered twice a week due to a warm fall. Fertilizer was injected to the irrigation system four out of the seven watering days during the month of October. A 20-10-20 fertilizer was used. After the garden's irrigation system was winterized in November there were three dates where the entries were watered using a frost free water line. Watering from late-March through May was done with the garden irrigation system. The irrigation system was typically run for 1 hour on a weekly basis. The irrigation system applies .39in of water per hour.

DATES OF SEVERE WEATHER

Winter temperatures in 2014-2015 were typical of a normal Colorado winter. This year's snow cover occurred from January-mid February. The first hard freezes, (low temps. below 25°F) after the trials were planted, were recorded on October 29th, 2014, when temperature was recorded to be 25 degrees. Extreme cold temperatures are listed in the table below. Wind-chill factors are not included but can be quite significant in Colorado's winter climate. During the second week of November the Front Range of Colorado experienced a severe freeze. Temperatures dropped from above freezing to well below freezing in a matter of hours. During this freeze event there was just enough snow cover to completely cover the entries. Only one out to the 75 cool season trial entries showed damage from this weather event.

Dates of temperatures at 5°F or lower:

Date	Low	Date	Low	Date	Low	Date	Low
11/11/14	4.60	11/17/14	4.50	12/31/14	-17.00*	2/24/15	4.40
11/12/14	-5.50	12/27/14	-1.00	1/1/15	-4.10	2/27/15	3.50
11/13/14	-6.00	12/28/14	3.60	1/4/15	3.50	2/28/15	0.60
11/14/14	2.90	12/29/14	4.10	1/5/15	2.50	3/4/15	2.70
11/16/14	-3.90	12/30/14	-15.10	2/23/15	-0.90	3/5/15	-0.30

*Lowest recorded temp of the winter.

WEATHER DATA NOVEMBER – APRIL

October 2014 (Beginning 10/3/14)	November 2014	December 2014	January 2015				
Ave Max Temp.	70.81°F	Ave Max Temp.	50.99°F	Ave Max Temp.	46.09°F	Ave Max Temp.	48.61°F
Ave Min Temp	36.35°F	Ave Min Temp	20.17°F	Ave Min Temp	16.73°F	Ave Min Temp	19.46°F
Ave Mean Temp	52.17°F	Ave Mean Temp	34.45°F	Ave Mean Temp	29.18°F	Ave Mean Temp	32.76°F
Max Max Temp.	83.10°F	Max Max Temp.	72.20°F	Max Max Temp.	66.70°F	Max Max Temp.	76.50°F
Min Min Temp	25.60°F	Min Min Temp	-6.00°F	Min Min Temp	-17.0°F	Min Min Temp	-4.10°F
Total Precip.	0.92 in	Total Precip.	0.92 in	Total Precip.	0.37 in	Total Precip.	0.14 in
Max Precip.	0.85 in	Max Precip.	0.68 in	Max Precip.	0.22 in	Max Precip.	0.03 in

February 2015	March 2015	April 2015
Ave Max Temp. 46.68°F	Ave Max Temp. 61.68°F	Ave Max Temp. 62.63°F
Ave Min Temp 20.31°F	Ave Min Temp 27.56°F	Ave Min Temp 34.63°F
Ave Mean Temp 34.11°F	Ave Mean Temp 44.63°F	Ave Mean Temp 49.19°F
Max Max Temp. 72.00°F	Max Max Temp. 81.90°F	Max Max Temp. 81.30°F
Min Min Temp -0.90°F	Min Min Temp -0.30°F	Min Min Temp 23.10°F
Total Precip. 0.70 in	Total Precip. 0.10 in	Total Precip. 3.15 in
Max Precip. 0.20 in	Max Precip. 0.04 in	Max Precip. 1.25 in

DATA COLLECTION METHODS FROM PLANTING THROUGH EVALUATION DAY

Thomas Zimmermann (undergraduate Environmental Horticulture student) collected data throughout the 2014-15 cool season trial. The data categories collected included: overall rating (1-5), as well as frost dieback ratings as a percentage and percent flower coverage.

The overall rating scoring was: 1=poor condition (dying), 2=weak condition (struggling with some dieback), 3=average (few to no flowers with healthy foliage), 4=good condition (progressing flowers with healthy foliage growth), and 5=great condition (many flowers with healthy uniform foliage growth).

The frost damage/ dieback was based on the number of the all plants per entry row that showed visible frost damage (dead plant material).

The frost damage/ dieback rating was recorded beginning in October of 2014 through mid-April of 2015. Plants were rated as: 1= little dieback to no dieback, 2= some dieback, 3= visible dieback, 4= significant dieback, 5= major frost damage/ plants are dead (all brown).

A record of each entry was taken during the fall months (October-November), as well as in the spring months, (March-April) when each entry 1st bloomed, reached 50% bloom, and when the entry was in 100% bloom. The majority of the entries were received on the 3rd of October already in bloom, those that arrived in bloom were then only recorded when they reached 50% bloom and 100% bloom. Bloom percentage was rated as 1st bloom representing when one bloom was visible on any plant in the variety, 50% bloom representing a variety appeared to average 4 blooms/cell pack, and 100% bloom representing a variety that had full flower coverage.

Conclusion

This year's cool season trials were one of the most successful trials in years. Due to the early planting on October 3rd, 2014, the plant trials were able to establish strong root systems well before the winter. This strong establishment is what is believed to have allowed the plants to perform so well throughout the winter and spring months this year in Colorado. The advisory committee noted how most entries began blooming and performing earlier in the spring and continued their strong performance through spring.

This was also the first year that the majority of the data collection from the spring evaluation day was taken using either a smartphone or a tablet in combination with new wireless internet capabilities out at the trial garden, and a new internet based program developed specifically for the trial gardens. Feedback from the committee members who were involved was positive. The CSU Trial Gardens staff is now working hard to perfect this new evaluation process and prepare for the summer trials. It is worth noting that the new evaluation process has significantly improved efficiency in collecting and tabulating the final data for the cool season trial garden.

2014-2015 Cool Season “Best Of” Selections

Best of Show Pansy: Pansy Cool Wave Blue Skies by PanAmerican Seed

This Pansy began to set itself apart from others early in the trial. It was a vigorous grower with an attractive spreading habit. The blanket of blue and yellow flowers caught people’s eye immediately. Not only was it very attractive, it also had a 100% survival rate throughout the winter.

Best Blue/Violet Pansy: Pansy Exp. XXL Denim by Benary

What made this pansy a winner was the contrasting colors on the large flowers. The flowers were a two toned, iridescent, violet and blue with a very well defined dark blotch.

Best Yellow Pansy: Pansy Delta Premium Pure Yellow by Syngenta Flowers

This vigorous pansy was very uniform in growth. Large yellow flowers were described as having a great depth of color as well as having some darker, contrasting, whiskering, which made this pansy the winner in this category.

Best White Pansy: Pansy Delta Premium White with Blotch by Syngenta Flowers

The blooms on this variety were held well above the foliage as well as being perfectly orientated up. The attractive purple blotch on the flower helped set this pansy apart. A very uniform growth habit only helped solidify it as the top white pansy.

Best Novelty Pansy: Pansy Karma Blue Sun by Syngenta Flowers

The contrasting purple and yellow flowers created a striking appearance, as well as a unique flower color. In addition to the contrasting colors, consistent whiskering helped add even more appeal to the flowers. Judges stated this pansy’s many flowers could be seen from quite a distance.

Best of Show Viola: Viola Penny Mickey by Syngenta Flowers

How could a flower with a Mickey Mouse face not make everyone smile? Judges noted that there was an excellent contrast between the two toned purple and white flower which created a Mickey Mouse like image. The uniform growth habit and countless flowers also made this viola excellent for mass plantings. This viola brought a smile to everyone’s face

Best Blue/ Violet Viola: Viola Admire Deep Blue by Benary

This Viola had the deepest blue flower color out of all violas in the trial. Not only was the flower color impressive, the flowers completely covered the plant. This rich blue flower, as well as its uniform growth habit made it an easy winner.

Best Yellow Viola: Viola Penny Yellow by Syngenta Flowers

Numerous, electric yellow flowers covered this viola, making it difficult to even see the plant below it. These yellow flowers had consistent dark whiskers that added even to the interest of the flowers. The vigorous growth habit makes it a great selection for large plantings.

Best White Viola: Viola Endurio White by Syngenta Flowers

The mounding growth habit and many long lasting flowers gave this viola the edge over other white entries. This combination of an attractive growth habit and many flowers had judges describing this viola a great, full bodied plant.

Best Novelty Viola: Viola Sorbet Yesterday Today Tomorrow XP by Syngenta Flowers

A great display of sky blue and white flowers made this a favorite instantly. There were many flowers and the combination of colors was remarkably consistent in every plant. In addition this viola displayed a very uniform growth habit.

For photos of these plants visit www.flowertrials.colostate.edu. – Best Pansy/Viola

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Colossus™ Deep Blue with Blotch	Syngenta Flowers		[10] Uniform, [1] Small Flowers, [3] Non-Uniform, [4] Large Flowers, [4] Vigorous Plant, [5] Low Vigor, [6] Moderate Flowers, [7] Many Flowers, [8] Standard Flower Size	6.28	Expecting larger bloom for a colossus, fairly uniform, flowers a little floppy, smaller and more compact growth habit. weak stems to flowers. blotch not always present, many flowers, some flowers have lighter color variation that adds interest.
Pansy	Colossus™ Purple with Blotch	Syngenta Flowers		[1] Unique Colors, [4] Standard Flower Size, [5] Uniform, [6] Low Vigor, [6] Many Flowers, [7] Non-Uniform, [9] Large Flowers, [9] Moderate Flowers	5.87	Big flowers but floppy, blotch not pronounced, dark colors, flowers not held above foliage, varying growth habit, non-uniform flower color, holds spent flowers, compact growth habit.
Pansy	Colossus™ White	Syngenta Flowers		[11] Many Flowers, [1] Unique Colors, [2] Small Flowers, [3] Low Vigor, [3] Moderate Flowers, [3] Vigorous Plant, [4] Standard Flower Size, [4] Uniform, [8] Large Flowers, [9] Non-Uniform	5.77	Some flowers have whiskers, slight blue hue in some flowers, flowers are smaller, love the whiskers pattern, spent flowers really show, unique blue stripes with the yellow eye, the largest white flower, weak ruffled flowers, growth habit is variable.
Pansy	Colossus™ White with Blotch	Syngenta Flowers		[13] Many Flowers, [14] Large Flowers, [1] Low Vigor, [1] Moderate Flowers, [1] Standard Flower Size, [1] Unique Colors, [5] Uniform, [6] Non-Uniform, [6] Vigorous Plant	6.98	Floppy flowers, huge flowers, very small habit, could be more uniformed, not a clear white, the flowers are so large that they fold and droop detracting from the plant, very showy flower size.
Pansy	Colossus™ Yellow Improved	Syngenta Flowers		[11] Many Flowers, [11] Uniform, [12] Large Flowers, [1] Non-Uniform, [2] Low Vigor, [2] Standard Flower Size, [4] Moderate Flowers, [7] Vigorous Plant	7.60	Best of the yellow pansies, super uniform growth habit, deep flower color, low grower, huge showy flowers, lower growing growth habit, petals look weak, very compact, very nice rich color.

**Ratings = 1 (poor) to 10 (excellent) on evaluation day by evaluators

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Colossus™ Yellow with Blotch	Syngenta Flowers		[11] Large Flowers, [1] Unique Colors, [2] Standard Flower Size, [2] Vigorous Plant, [5] Uniform, [6] Many Flowers, [6] Moderate Flowers, [6] Non-Uniform, [7] Low Vigor	6.25	Big flowers but floppy, had a unique almost browning blotch, huge flowers, some ruffling, smaller growth habit, stretched petioles, very compact grower.
Pansy	Cool Wave® Blue Skies	PanAmerican Seed	New	[12] Vigorous Plant, [13] Uniform, [16] Many Flowers, [1] Few Flowers, [1] Moderate Flowers, [1] Non-Uniform, [3] Small Flowers, [4] Unique Colors, [9] Standard Flower Size	8.75	Awesome, spreading nicely, beautiful color variation, beautiful eyelashes on flowers, bushy growth habit with smaller flowers for a pansy, nice multi-color flower.
Pansy	Cool Wave® Lemon Surprise	PanAmerican Seed	New	[11] Uniform, [13] Vigorous Plant, [14] Many Flowers, [1] Moderate Flowers, [1] Small Flowers, [2] Large Flowers, [3] Non-Uniform, [7] Unique Colors, [9] Standard Flower Size	6.90	Good flower color doesn't fade, good flower size with lovely flower color, purple streaking is not consistent, large flowers, great large growth habit.
Pansy	Delta™ Premium Deep Blue	Syngenta Flowers	New	[10] Uniform, [3] Low Vigor, [3] Unique Colors, [4] Non-Uniform, [4] Vigorous Plant, [6] Moderate Flowers, [6] Standard Flower Size, [9] Large Flowers, [9] Many Flowers	6.78	Attractive yellow eye, best of the purple type colors, large flowers, looks purple...not deep blue, non-uniform and compact growth habit, rich flower color.
Pansy	Delta™ Premium Gold with Blotch	Syngenta Flowers		[10] Many Flowers, [11] Standard Flower Size, [11] Uniform, [1] Low Vigor, [1] Unique Colors, [2] Large Flowers, [3] Moderate Flowers, [4] Non-Uniform, [7] Vigorous Plant	7.34	Almost too many flowers that crowd each other, best of the gold blotch pansies, color is very soft, no fading of blooms, very attractive, uniform growth habit, excellent flower facing, great color pattern.
Pansy	Delta™ Premium Neon Violet Improved	Syngenta Flowers		[11] Many Flowers, [15] Uniform, [2] Large Flowers, [4] Moderate Flowers, [5] Small Flowers, [5] Unique Colors, [5] Vigorous Plant, [7] Standard Flower Size	7.25	Flowers held above foliage, attractive neon violet flower color, the best of the dark blue class, very nice bright vivid bicolor flower, very uniform color, more compact growth habit, exceptional facing with great flower presentation.

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Delta™ Premium Pure Golden Yellow	Syngenta Flowers		[10] Many Flowers, [1] Few Flowers, [2] Small Flowers, [2] Unique Colors, [3] Large Flowers, [3] Moderate Flowers, [3] Vigorous Plant, [4] Uniform, [5] Low Vigor, [6] Non-Uniform, [6] Standard	5.96	Bright yellow flower color, poor growth habit, deepest of the gold plants, very floriferous, stretched petioles, excellent flower facing, great color presentation, some dieback, some plants were lost.
Pansy	Delta™ Premium Pure Violet	Syngenta Flowers		[10] Moderate Flowers, [11] Low Vigor, [11] Standard Flower Size, [1] Few Flowers, [1] Small Flowers, [1] Unique Colors, [1] Vigorous Plant, [3] Large Flowers, [5] Many Flowers, [5] Non-	5.90	Compact growth habit, great flower color, small flowers, flowers not held above foliage, many flowers.
Pansy	Delta™ Premium Pure White	Syngenta Flowers		[10] Standard Flower Size, [1] Few Flowers, [1] Small Flowers, [3] Non-Uniform, [3] Vigorous Plant, [4] Low Vigor, [5] Many Flowers, [5] Uniform, [9] Moderate Flowers	5.55	One of the better performers in the white pansy class, blooms not uniform, variable flower color, some folding to flowers, foliage present, sparse flowers, the flowers are folded, spent flowers are prominent, crisp clean white, very thin flowers.
Pansy	Delta™ Premium Pure Yellow	Syngenta Flowers		[12] Many Flowers, [12] Uniform, [13] Vigorous Plant, [1] Non-Uniform, [1] Unique Colors, [2] Moderate Flowers, [4] Standard Flower Size, [9] Large Flowers	7.57	One of the best in the yellow class, flower color a bit pale, petioles seem stretched, little more compact growth habit, some flowers have eyelashes, good flower presentation.
Pansy	Delta™ Premium True Blue	Syngenta Flowers		[10] Many Flowers, [1] Some Chlorosis, [1] Unique Colors, [1] Vigorous Plant, [3] Non-Uniform, [5] Moderate Flowers, [5] Standard Flower Size, [5] Uniform, [6] Large Flowers, [8] Low Vigor	6.63	Attractive blue color, nice clear color, no stretch, smaller plants but fully covered with flowers, holds spent flowers, some flowers in the foliage, lighter flower color, very compact.
Pansy	Delta™ Premium Violet & White	Syngenta Flowers	New	[10] Standard Flower Size, [12] Many Flowers, [1] Large Flowers, [2] Moderate Flowers, [2] Small Flowers, [3] Non-Uniform, [3] Vigorous Plant, [4] Unique Colors, [5] Low Vigor, [7] Uniform	6.56	Crisp bicolor, attractive growth habit, little plant death, very uniform splotching pattern, very good flower coverage, great flower presentation, many flowers

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Delta™ Premium White with Blotch	Syngenta Flowers		[10] Standard Flower Size, [15] Many Flowers, [1] Low Vigor, [1] Unique Colors, [3] Large Flowers, [3] Non-Uniform, [7] Vigorous Plant, [8] Uniform	7.78	Best white with blotch pansy, flowers held upright, covered in flowers, uniform color and patterns, nice short peduncle, smothered in color, great white color, excellent flower facing, great flower presentation.
Pansy	Delta™ Premium Yellow with Blotch	Syngenta Flowers		[1] Small Flowers, [4] Large Flowers, [4] Non-Uniform, [5] Moderate Flowers, [7] Vigorous Plant, [8] Many Flowers, [8] Standard Flower Size, [9] Uniform	6.70	Consistent performance, good contrast, less flower coverage, nice flower presentation, probably the best yellow with blotch in the trial, just slightly lighter flower color, excellent flower facing.
Pansy	Delta™ Premium Yellow with Purple Wing	Syngenta Flowers	New	[10] Many Flowers, [1] Disease Present, [1] Small Flowers, [2] Large Flowers, [3] Vigorous Plant, [4] Low Vigor, [5] Uniform, [6] Moderate Flowers, [7] Non-Uniform, [7] Unique Colors, [9] Standard	6.37	Flower color not uniform throughout planting, flowering isn't uniform, bicolor flowers, smaller plants, uneven growth habit, some yellow is fading, color looks faded, color blend lacks impact.
Pansy	Exp. Beaconsfield	Benary	New	[2] Low Vigor, [4] Vigorous Plant, [5] Large Flowers, [5] Uniform, [6] Non-Uniform, [7] Many Flowers, [7] Unique Colors, [8] Standard Flower Size, [9] Moderate Flowers	6.56	Best of the purple and white varieties, smaller growth habit, bicolor flowers, flowers not held above foliage, larger bloom size.
Pansy	Exp. Orange	Benary	New	[11] Many Flowers, [11] Standard Flower Size, [1] Large Flowers, [1] Low Vigor, [1] Small Flowers, [2] Non-Uniform, [4] Moderate Flowers, [6] Vigorous Plant, [8] Uniform, [9] Unique Colors	7.65	A standout performer, unique orange flower color, spent flowers still look great, striking color, excellent flower peduncle length, apricot color, some whiskers on the flowers.
Pansy	Exp. Red Blotch	Benary	New	[10] Standard Flower Size, [13] Moderate Flowers, [1] Low Vigor, [1] Many Flowers, [2] Large Flowers, [2] Uniform, [4] Vigorous Plant, [6] Unique Colors, [7] Non-Uniform	6.35	Flower color is a bit too variable, red fades to some nice other shades, lacks some flower power, lot of foliage showing through the flowers.

**Ratings = 1 (poor) to 10 (excellent) on evaluation day by evaluators

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Exp. True Blue	Benary	New	[1] Unique Colors, [3] Non-Uniform, [3] Standard Flower Size, [8] Many Flowers, [8] Moderate Flowers, [9] Large Flowers, [9] Uniform, [9] Vigorous Plant	7.34	Blooms holding color, lovely deep true blue color, not quite as uniform but very showy flowers, taller habit, minimal foliage visible, strong flower color.
Pansy	Exp. XXL Denim	Benary	New	[10] Vigorous Plant, [11] Many Flowers, [12] Unique Colors, [4] Moderate Flowers, [4] Non-Uniform, [6] Large Flowers, [6] Standard Flower Size, [6] Uniform	7.28	Excellent blue and purple flower color mix, some flowers are different sizes, some flower color variation, large flowers, would need heavy dead heading to keep vibrant.
Pansy	Exp. XXL Violet Face	Benary	New	[12] Large Flowers, [2] Low Vigor, [2] Standard Flower Size, [4] Moderate Flowers, [4] Unique Colors, [5] Uniform, [6] Non-Uniform, [7] Vigorous Plant, [9] Many Flowers	7.12	Best of the violets with face, good habit and contrast on face, some ruffling to flowers, very floriferous, very large flowers, excellent flower facing, compact growth habit.
Pansy	Exp. XXL White	Benary	New	[3] Low Vigor, [4] Many Flowers, [5] Standard Flower Size, [5] Uniform, [6] Non-Uniform, [6] Vigorous Plant, [8] Large Flowers, [9] Moderate Flowers	6.25	Flowers do not cover all of plants, frilled edge to the flowers, non-uniform growth habit, weak flower power, lots of foliage visible, too many spent flowers, variable size of flower
Pansy	Exp. XXL Yellow	Benary	New	[10] Large Flowers, [2] Non-Uniform, [3] Low Vigor, [4] Standard Flower Size, [5] Vigorous Plant, [6] Many Flowers, [8] Moderate Flowers, [9] Uniform	6.34	Lots of dark whiskers on the flowers, compact grower, flowers are held under the foliage too much, lot of foliage showing beneath blooms, low grower, seems too compact or squished.
Pansy	Exp. Yellow	Benary	New	[10] Vigorous Plant, [4] Non-Uniform, [4] Standard Flower Size, [7] Many Flowers, [8] Large Flowers, [8] Moderate Flowers, [8] Uniform	6.84	Not uniform in growth habit, large bright flower, clean looking blooms, foliage showing through, many blooms held below the foliage, one of the best yellows pansies, some cupped flowers.

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Experimental	PanAmerican Seed	New	[2] Low Vigor, [2] Many Flowers, [3] Few Flowers, [3] Large Flowers, [5] Non-Uniform, [5] Unique Colors, [6] Vigorous Plant, [9] Moderate Flowers, [9] Standard Flower Size, [9] Uniform	5.84	Flower color consistent on all blooms, foliage easily visible, lacks flower power, good dark contrast on flowers, flower's blotch is well defined, not as floriferous as others.
Pansy	Experimental	PanAmerican Seed	New	[10] Standard Flower Size, [3] Low Vigor, [3] Non-Uniform, [4] Large Flowers, [6] Moderate Flowers, [6] Unique Colors, [6] Vigorous Plant, [9] Many Flowers, [9] Uniform	7.12	Flowers not held above foliage, some color variation in the flowers, great contrasting colors, very compact growth habit, excellent flower facing, attractive combination of colors.
Pansy	Karma™ Blue Sun	Syngenta Flowers	New	[12] Unique Colors, [14] Many Flowers, [1] Low Vigor, [2] Large Flowers, [2] Moderate Flowers, [5] Vigorous Plant, [7] Uniform, [8] Non-Uniform, [9] Standard Flower Size	7.28	Great color combination, gorgeous colors, great novelty, the yellow really stands out, flowers held close to the foliage, uniform plant, many flowers, foliage barely visible through flowers, bright cheerful color blend.
Pansy	Karma™ Rose with Blotch	Syngenta Flowers	New	[1] Few Flowers, [2] Low Vigor, [3] Large Flowers, [3] Uniform, [5] Moderate Flowers, [6] Vigorous Plant, [7] Standard Flower Size, [8] Many Flowers, [9] Non-Uniform, [9] Unique Colors	6.30	Compact grower, non-uniform blotching on flowers, slightly stretchy peduncle, unique color variation, non-uniform blend of colors, too many pinks in the blend.
Pansy	Mariposa™ Blue with Blotch Improved	Syngenta Flowers		[11] Uniform, [2] Large Flowers, [3] Non-Uniform, [3] Vigorous Plant, [5] Low Vigor, [6] Moderate Flowers, [9] Many Flowers, [9] Standard Flower Size	5.97	Color hue varies, deep blue blotch doesn't show, lack of uniform growth habit, strong blotch definition, nice mix of colors-blue to violet, smaller plants, variable color, very compact.
Pansy	Mariposa™ Peach Shades Improved	Syngenta Flowers		[1] Low Vigor, [4] Vigorous Plant, [5] Moderate Flowers, [5] Non-Uniform, [5] Small Flowers, [5] Uniform, [5] Unique Colors, [6] Standard Flower Size, [9] Many Flowers	6.40	Love the peach shades in the flower, unique flower color, many variations of bloom size and color, nice growth habit and flower coverage, some flower color is washing out, not a true peach color.

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Mariposa™ True Blue	Syngenta Flowers		[10] Uniform, [13] Many Flowers, [2] Large Flowers, [2] Moderate Flowers, [3] Small Flowers, [5] Unique Colors, [7] Standard Flower Size, [9] Vigorous Plant	7.13	A good true blue color, some flowers ruffled, good flower coverage, flowers held above foliage well, some variation of colors on flowers.
Pansy	Mariposa™ White	Syngenta Flowers		[10] Uniform, [11] Small Flowers, [1] Many Flowers, [1] Some Chlorosis, [1] Standard Flower Size, [2] Non-Uniform, [3] Low Vigor, [4] Vigorous Plant, [6] Few Flowers, [8] Moderate Flowers	5.12	Average for a white pansy, lots of green foliage showing, many blooms below foliage, tiny and few flowers, very compact growth habit.
Pansy	Mariposa™ White with Blotch	Syngenta Flowers		[11] Vigorous Plant, [13] Many Flowers, [1] Large Flowers, [1] Moderate Flowers, [1] Unique Colors, [3] Non-Uniform, [5] Standard Flower Size, [8] Small Flowers, [9] Uniform	6.60	Blue hue running through plant, many small flowers make for an outstanding display, uniform growth habit, tons of flower color, some creamy flowers have variable color.
Pansy	Mariposa™ Yellow	Syngenta Flowers		[11] Standard Flower Size, [1] Small Flowers, [2] Large Flowers, [2] Non-Uniform, [3] Low Vigor, [4] Vigorous Plant, [6] Uniform, [7] Many Flowers, [7] Moderate Flowers	6.20	Good plant, the flowers don't show as well as others, uniform growth habit.
Pansy	Mariposa™ Yellow with Blotch	Syngenta Flowers		[12] Uniform, [14] Many Flowers, [1] Large Flowers, [1] Moderate Flowers, [1] Unique Colors, [2] Low Vigor, [5] Small Flowers, [7] Vigorous Plant, [9] Standard Flower Size	7.45	Absolutely covered with color, cheerful plant, huge flowers, unique color combo, compact growth habit, good balance of blotch to overall flower size.
Pansy	Matrix™ Beaconsfield	PanAmerican Seed	New	[10] Moderate Flowers, [10] Uniform, [12] Standard Flower Size, [2] Few Flowers, [2] Large Flowers, [3] Low Vigor, [3] Non-Uniform, [3] Unique Colors, [4] Many Flowers, [5] Vigorous Plant	6.34	Flower coverage not as good, foliage showing through, flowers not held above foliage, the flowers are not as showy as they droop, compact growth habit.
Pansy	Matrix™ Solar Flame	PanAmerican Seed	New	[10] Many Flowers, [10] Uniform, [12] Unique Colors, [2] Low Vigor, [3] Non-Uniform, [3] Standard Flower Size, [4] Vigorous Plant, [5] Moderate Flowers, [7] Large Flowers	7.40	Deep rich colors, very showy plants, would be a great fall variety due to its colors, holds color well, a sunrise sunset look, unique colors.

**Ratings = 1 (poor) to 10 (excellent) on evaluation day by evaluators

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy	Spring Matrix™ Lavender Shades	PanAmerican Seed	New	[12] Unique Colors, [13] Many Flowers, [1] Low Vigor, [2] Moderate Flowers, [4] Standard Flower Size, [5] Non-Uniform, [7] Vigorous Plant, [8] Uniform, [9] Large Flowers	7.34	A pretty mix of light shades, fairly uniform, bright spring selection, good color contrast, large flowers, nice early spring color, sturdy plant habit, unique light purple to white flowers.
Pansy	Spring Matrix™ Primrose	PanAmerican Seed	New	[11] Many Flowers, [13] Large Flowers, [3] Moderate Flowers, [4] Non-Uniform, [6] Unique Colors, [7] Uniform, [8] Vigorous Plant	6.79	Huge flowers, some color variation within flowers, dense habit, lot of color fading, nice shade of yellow, primrose flower color fades to off-white, flowers in foliage.
Pansy	Spring Matrix™ Purple White	PanAmerican Seed	New	[10] Uniform, [12] Vigorous Plant, [13] Many Flowers, [1] Moderate Flowers, [1] Small Flowers, [3] Non-Uniform, [5] Standard Flower Size, [6] Unique Colors, [7] Large Flowers	7.56	Best white with the blotch because the blotch doesn't detract from the whole flower, good contrast with dark margins, striking color combo- deep, rich colors, many flowers, uniform but small mounding habit, compact.
Pansy (Trailing)	WonderFall™ Blue with Blotch	Syngenta Flowers		[12] Uniform, [16] Vigorous Plant, [2] Non-Uniform, [3] Small Flowers, [7] Many Flowers, [9] Moderate Flowers, [9] Standard Flower Size	6.90	Beautiful trailing habit, vigorous growth habit, blooms held higher on plant, long peduncle, very vigorous, the contrast of foliage and bloom is nice, some foliage visible.
Pansy (Trailing)	WonderFall™ Purple	Syngenta Flowers		[11] Small Flowers, [12] Vigorous Plant, [1] Few Flowers, [3] Standard Flower Size, [3] Unique Colors, [4] Non-Uniform, [6] Moderate Flowers, [7] Many Flowers, [8] Uniform	6.50	Good choice for a pot, holds flower above foliage well, unique flowers, finely textured flowers, petals are more distinct, nice color, non-uniform growth habit, tiny flowers.
Pansy (Trailing)	WonderFall™ White	Syngenta Flowers		[12] Small Flowers, [12] Uniform, [13] Vigorous Plant, [1] Few Flowers, [6] Moderate Flowers, [7] Many Flowers	5.96	Flowers under foliage, looks more upright than trailing, nice uniform growth habit to the plant, small flowers cover spreading plants for spectacular display.

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Pansy (Trailing)	WonderFall™ Yellow	Syngenta Flowers		[12] Many Flowers, [13] Uniform, [13] Vigorous Plant, [1] Moderate Flowers, [2] Unique Colors, [6] Standard Flower Size, [8] Small Flowers	6.40	Clear yellow flower color, fills in space well, has great potential as a trailer or a container plant, lot of flower color but variation in bloom sizes, peduncle is stretchy, perfect for baskets, small flowers cover plant well.
Pansy (Trailing)	WonderFall™ Yellow with Blotch	Syngenta Flowers		[10] Small Flowers, [11] Vigorous Plant, [1] Disease Present, [2] Low Vigor, [3] Standard Flower Size, [3] Unique Colors, [4] Non-Uniform, [6] Uniform, [7] Moderate Flowers, [8] Many Flowers	6.50	Beautiful growth habit, nice unique flower color, great flower blotch, great spreading habit, not enough flower coverage, some variation in flower color, stretchy peduncle.
Viola	Admire™ Deep Blue	Benary		[13] Uniform, [14] Many Flowers, [1] Moderate Flowers, [5] Small Flowers, [5] Unique Colors, [7] Standard Flower Size, [7] Vigorous Plant	8.08	Awesome purple/blue flower color, deep flower colors that are not fading, flowers have velvet like look, uniform deep color, excellent flower facing, very uniform growth habit.
Viola	Admire™ Exp. Blue	Benary	New	[1] Low Vigor, [3] Small Flowers, [4] Non-Uniform, [5] Moderate Flowers, [6] Vigorous Plant, [7] Uniform, [8] Standard Flower Size, [9] Many Flowers	7.08	Clumped growth habit, great blue flower color, great flower coverage, nice mounding growth habit, covered in flowers, very pretty.
Viola	Admire™ Exp. White	Benary	New	[10] Uniform, [1] Large Flowers, [2] Low Vigor, [4] Moderate Flowers, [4] Vigorous Plant, [5] Small Flowers, [6] Standard Flower Size, [8] Many Flowers	6.85	Clean white flower color, great vigor and flower presentation, mounded growth habit, foliage visible through the flowers, very narrow grower.
Viola	Admire™ Exp. Yellow	Benary	New	[11] Many Flowers, [3] Moderate Flowers, [4] Non-Uniform, [5] Standard Flower Size, [6] Small Flowers, [6] Uniform, [7] Vigorous Plant	6.97	Golden yellow flower color, attractive plant growth habit, some mound more than others, whiskers very uniform, compact growth habit.

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Viola	Admire™ Pink Surprise	Benary		[10] Vigorous Plant, [11] Uniform, [2] Small Flowers, [3] Large Flowers, [5] Unique Colors, [6] Moderate Flowers, [8] Many Flowers, [8] Standard Flower Size	7.65	Great growth habit, many flowers, nice flower color, non-uniform growth habit, nice flower coverage.
Viola	Admire™ Ruby Gold	Benary		[11] Uniform, [11] Unique Colors, [12] Many Flowers, [12] Vigorous Plant, [1] Non-Uniform, [4] Small Flowers, [7] Standard Flower Size	7.47	Great flower color, great novelty viola, elongated peduncle, rich flower color, holding color well, nice growth habit, phenomenal color.
Viola	Penny™ Blue	Syngenta Flowers		[11] Uniform, [11] Vigorous Plant, [15] Many Flowers, [1] Large Flowers, [1] Non-Uniform, [1] Unique Colors, [3] Small Flowers, [9] Standard Flower Size	7.46	Better uniformity all around, good flower color, loads of flowers, uniform color, slightly stretchy.
Viola	Penny™ Clear Yellow	Syngenta Flowers		[10] Many Flowers, [1] Unique Colors, [3] Moderate Flowers, [3] Uniform, [4] Large Flowers, [6] Vigorous Plant, [7] Non-Uniform, [8] Standard Flower Size	6.79	Unique flower colors, good flower coverage, great uniform growth habit, attractive yellow color, whiskers on some of the flowers.
Viola	Penny™ Deep Blue	Syngenta Flowers		[1] Few Flowers, [1] Large Flowers, [4] Non-Uniform, [4] Small Flowers, [4] Unique Colors, [6] Low Vigor, [6] Moderate Flowers, [7] Many Flowers, [7] Standard Flower Size, [9] Uniform	6.52	Compact growth habit, fading bloom color, weaker growth habit than others in the series, small uniform plants, deep purple flower color, large flower for viola.
Viola	Penny™ Mickey	Syngenta Flowers		[12] Many Flowers, [12] Uniform, [12] Unique Colors, [1] Large Flowers, [1] Moderate Flowers, [1] Non-Uniform, [4] Small Flowers, [5] Standard Flower Size, [9] Vigorous Plant	8.47	Unique flower color, great growth habit, great uniformity, one of the best violas, somewhat upright growth habit, striking color combos.
Viola	Penny™ White	Syngenta Flowers		[3] Moderate Flowers, [3] Non-Uniform, [3] Vigorous Plant, [4] Low Vigor, [4] Standard Flower Size, [7] Small Flowers, [7] Uniform, [8] Many Flowers	6.34	Blooms are under the foliage, lots of flowers, flowers have a crisp and clean color, compact mounding growth habit.

**Ratings = 1 (poor) to 10 (excellent) on evaluation day by evaluators

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Viola	Penny™ White Jump-up	Syngenta Flowers		[12] Uniform, [13] Many Flowers, [1] Non-Uniform, [3] Small Flowers, [4] Unique Colors, [6] Standard Flower Size, [9] Vigorous Plant	8.20	A mound of color, very uniform growth habit, very floriferous, phenomenal uniformity, phenomenal colors, very cheerful color impact.
Viola	Penny™ Yellow	Syngenta Flowers		[10] Vigorous Plant, [12] Many Flowers, [1] Unique Colors, [3] Small Flowers, [4] Non-Uniform, [5] Standard Flower Size, [6] Uniform	7.18	Variable growth habit, elongated peduncle, extremely tall many flowers, lighter lemon yellow, not as uniform but great height, pale color, very nice flower, whiskers not clear.
Viola	Penny™ Yellow with Blotch	Syngenta Flowers		[11] Moderate Flowers, [1] Standard Flower Size, [1] Unique Colors, [2] Few Flowers, [2] Vigorous Plant, [3] Uniform, [5] Non-Uniform, [7] Low Vigor, [8] Small Flowers	5.81	Bloch is too small, flowers are too far under foliage, weak plants, poor growth habit. Lots of foliage.
Viola	Sorbet® Lavender Pink XP	PanAmerican Seed	New	[1] Few Flowers, [1] Low Vigor, [1] Non-Uniform, [3] Unique Colors, [4] Small Flowers, [5] Many Flowers, [5] Vigorous Plant, [7] Standard Flower Size, [7] Uniform, [9] Moderate Flowers	6.90	Blooms are under foliage, could use more flower power, some fading in blooms, some plants reverting.
Viola	Sorbet® Yellow Pink Wing XP	PanAmerican Seed	New	[10] Unique Colors, [1] Low Vigor, [2] Standard Flower Size, [2] Uniform, [3] Few Flowers, [4] Many Flowers, [5] Vigorous Plant, [6] Small Flowers, [7] Non-Uniform, [8] Moderate Flowers	6.14	Flower color is nice bicolor, growth habit is non-uniform, pink flower colors are washing out, small plants, lots of foliage present.
Viola	Sorbet® Yesterday Today Tomorrow XP	PanAmerican Seed	New	[12] Uniform, [1] Few Flowers, [1] Low Vigor, [1] Small Flowers, [2] Standard Flower Size, [5] Large Flowers, [5] Unique Colors, [6] Many Flowers, [7] Moderate Flowers, [7] Vigorous Plant	7.65	One of the best of the violas, interesting combo of flower colors, low grower, showy display, too compact, too much foliage showing.
Viola (Trailing)	Endurio® Blue Yellow with Purple Wing	Syngenta Flowers		[10] Uniform, [11] Vigorous Plant, [12] Many Flowers, [1] Non-Uniform, [3] Moderate Flowers, [5] Standard Flower Size, [6] Small Flowers, [7] Unique Colors	8.15	Great flower color, unique flower colors, lovely bicolor, uniformity is excellent, very showy, nice color combination.

**Ratings = 1 (poor) to 10 (excellent) on evaluation day by evaluators

Overall Rating by Evaluators and Evaluator Comments

Genus	Cultivar	Company Name	New	Plant Description	Rating **	Evaluators' Comments on 4/29/2015
Viola (Trailing)	Endurio® Pure Violet	Syngenta Flowers		[12] Many Flowers, [12] Uniform, [15] Vigorous Plant, [2] Moderate Flowers, [5] Small Flowers, [5] Unique Colors, [6] Standard Flower Size	8.49	Aggressive grower, long peduncles, great flower color, strong performer, floriferous, yellow eye to set it off very well, flowers rise high above foliage very well, unique contrast in viola flowers.
Viola (Trailing)	Endurio® Pure Yellow	Syngenta Flowers		[10] Small Flowers, [11] Uniform, [12] Vigorous Plant, [13] Many Flowers, [1] Non-Uniform, [2] Standard Flower Size, [3] Unique Colors	7.60	Very nice delicate form, bright and electric yellow flower color, elongated peduncle, very cheery, whiskers look great and are uniform, many flowers, uniform growth habit.
Viola (Trailing)	Endurio® White	Syngenta Flowers		[10] Many Flowers, [11] Small Flowers, [1] Few Flowers, [1] Moderate Flowers, [1] Standard Flower Size, [2] Low Vigor, [3] Non-Uniform, [5] Vigorous Plant, [6] Uniform	6.50	Loads of very small flowers, compact growth habit, poor orientation of flowers, too much plant showing through the flowers.

Appearance Data and Bloom Dates

Bloom Dates

Genus	Cultivar	Company Name	Ne	1st	50%	100%	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Pansy	Colossus™ Deep Blue with Blotch	Syngenta Flowers		2/10/2015	4/7/2015	4/21/2015	3	3	3	3	3	3	3	3	3	3	3
Pansy	Colossus™ Purple with Blotch	Syngenta Flowers		2/10/2015	4/7/2015	4/21/2015	3	4	3	3	3	3	3	3	3	3	3
Pansy	Colossus™ White	Syngenta Flowers		3/23/2015	4/7/2015	4/21/2015	3	3	3	3	3	3	2	3	3	3	3
Pansy	Colossus™ White with Blotch	Syngenta Flowers		3/23/2015	4/7/2015	1/1/1900	3	3	4	4	2	2	2	3	3	3	4
Pansy	Colossus™ Yellow Improved	Syngenta Flowers		2/10/2015	4/7/2015	4/21/2015	3	3	3	3	4	3	3	3	3	3	4
Pansy	Colossus™ Yellow with Blotch	Syngenta Flowers		2/10/2015	4/7/2015	4/21/2015	3	3	3	3	2	3	3	3	3	3	3
Pansy	Cool Wave® Blue Skies	PanAmerican Seed	New	2/10/2015	3/23/2015	4/7/2015	3	2	3	4	3	3	4	4	4	4	5
Pansy	Cool Wave® Lemon Surprise	PanAmerican Seed	New	2/10/2015	3/23/2015	4/7/2015	3	3	3	4	3	3	4	3	3	4	5
Pansy	Delta™ Premium Deep Blue	Syngenta Flowers	New	2/10/2015	3/23/2015	4/21/2015	3	3	3	3	3	3	3	3	3	3	3
Pansy	Delta™ Premium Gold with Blotch	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	4	3	3	3	3	3	3	3	3	3	4
Pansy	Delta™ Premium Neon Violet Improved	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	4	3	3	3	2	3	2	3	3	3	3
Pansy	Delta™ Premium Pure Golden Yellow	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	1	2	2	2	3	3	3
Pansy	Delta™ Premium Pure Violet	Syngenta Flowers		2/10/2015	4/7/2015	4/21/2015	4	4	4	4	2	3	3	3	3	3	3
Pansy	Delta™ Premium Pure White	Syngenta Flowers		3/23/2015	4/7/2015	4/21/2015	3	3	3	3	3	3	2	2	3	3	3
Pansy	Delta™ Premium Pure Yellow	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	3	4	4	3	5
Pansy	Delta™ Premium True Blue	Syngenta Flowers		2/10/2015	3/23/2015	4/21/2015	3	3	3	3	3	3	3	3	3	2	3
Pansy	Delta™ Premium Violet & White	Syngenta Flowers	New	2/10/2015	3/23/2015	4/21/2015	4	4	3	3	3	3	2	2	3	3	3
Pansy	Delta™ Premium White with Blotch	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	4	4	4	4	3	3	2	3	3	3	4
Pansy	Delta™ Premium Yellow with Blotch	Syngenta Flowers		2/10/2015	3/23/2015	4/21/2015	3	3	2	2	3	3	3	3	3	3	3
Pansy	Delta™ Premium Yellow with Purple Wing	Syngenta Flowers	New	3/23/2015	4/7/2015	4/21/2015	3	3	3	2	2	3	2	3	3	3	3
Pansy	Exp. Beaconsfield	Benary	New	3/23/2015	4/7/2015	4/21/2015	3	3	3	3	2	3	3	3	3	3	3

**Ratings = 1 (poor) to 5 (excellent)

Appearance Data and Bloom Dates

Bloom Dates

Genus	Cultivar	Company Name	Ne	1st	50%	100%	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Pansy	Exp. Orange	Benary	New	3/23/2015	4/7/2015	4/21/2015	3	3	2	3	3	3	2	3	3	3	4
Pansy	Exp. Red Blotch	Benary	New	3/23/2015	4/7/2015	4/21/2015	3	3	3	3	2	3	2	3	3	3	4
Pansy	Exp. True Blue	Benary	New	2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	3	3	3	3	4
Pansy	Exp. XXL Denim	Benary	New	3/23/2015	4/7/2015	4/21/2015	2	2	2	2	3	3	2	3	3	3	4
Pansy	Exp. XXL Violet Face	Benary	New	3/23/2015	4/7/2015	4/21/2015	2	2	2	2	3	3	2	3	3	2	4
Pansy	Exp. XXL White	Benary	New	3/23/2015	4/7/2015	4/21/2015	3	2	3	2	3	3	2	3	3	3	3
Pansy	Exp. XXL Yellow	Benary	New	2/10/2015	4/7/2015	4/21/2015	3	2	3	3	3	3	2	3	3	3	4
Pansy	Exp. Yellow	Benary	New	2/10/2015	3/23/2015	4/7/2015	3	4	4	4	3	3	3	3	3	4	4
Pansy	Experimental	PanAmerican Seed	New	3/23/2015	4/7/2015	4/21/2015	3	3	2	2	3	3	3	3	3	3	3
Pansy	Experimental	PanAmerican Seed	New	2/10/2015	4/7/2015	4/21/2015	3	4	3	3	3	3	3	3	3	3	3
Pansy	Karma™ Blue Sun	Syngenta Flowers	New	2/10/2015	3/23/2015	4/21/2015	3	3	3	3	3	3	3	4	4	3	4
Pansy	Karma™ Rose with Blotch	Syngenta Flowers	New	3/23/2015	4/7/2015	4/21/2015	3	3	3	3	2	3	2	3	3	3	3
Pansy	Mariposa™ Blue with Blotch Improved	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	4	4	2	3	3	3	4	3	4
Pansy	Mariposa™ Peach Shades Improved	Syngenta Flowers		3/23/2015	4/7/2015	4/21/2015	3	2	2	2	3	3	2	3	3	3	3
Pansy	Mariposa™ True Blue	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	4	4	4	3	4
Pansy	Mariposa™ White	Syngenta Flowers		2/10/2015	4/7/2015	4/21/2015	3	2	2	2	3	3	3	3	3	3	3
Pansy	Mariposa™ White with Blotch	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	3	4	4	4	5
Pansy	Mariposa™ Yellow	Syngenta Flowers		2/10/2015	4/7/2015	4/7/2015	3	2	2	2	3	3	3	3	3	3	3
Pansy	Mariposa™ Yellow with Blotch	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	2	2	2	3	3	3	3	4	3	4
Pansy	Matrix™ Beaconsfield	PanAmerican Seed	New	2/10/2015	4/7/2015	4/21/2015	3	3	3	3	3	3	3	3	3	3	3
Pansy	Matrix™ Solar Flame	PanAmerican Seed	New	3/23/2015	4/7/2015	4/21/2015	3	3	3	3	2	3	2	3	3	3	4

**Ratings = 1 (poor) to 5 (excellent)

Appearance Data and Bloom Dates

Bloom Dates

Genus	Cultivar	Company Name	Ne	1st	50%	100%	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Pansy	Spring Matrix™ Lavender Shades	PanAmerican Seed	New	2/10/2015	3/23/2015	4/21/2015	3	2	2	2	3	3	3	3	3	3	3
Pansy	Spring Matrix™ Primrose	PanAmerican Seed	New	3/23/2015	4/7/2015	4/7/2015	3	3	2	2	3	3	2	3	3	3	3
Pansy	Spring Matrix™ Purple White	PanAmerican Seed	New	3/23/2015	4/7/2015	4/21/2015	3	3	3	3	3	3	2	3	3	2	4
Pansy (Trailing)	WonderFall™ Blue with Blotch	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	4	3	3	4	5
Pansy (Trailing)	WonderFall™ Purple	Syngenta Flowers		2/10/2015	3/23/2015	4/21/2015	3	2	2	3	3	3	3	3	3	3	4
Pansy (Trailing)	WonderFall™ White	Syngenta Flowers		2/10/2015	3/23/2015	4/21/2015	3	3	3	3	3	3	3	3	3	3	3
Pansy (Trailing)	WonderFall™ Yellow	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	2	2	3	4	3	3	4	4	3	4
Pansy (Trailing)	WonderFall™ Yellow with Blotch	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	2	2	2	3	2	2	3	4	4	4	4
Viola	Admire™ Deep Blue	Benary		2/10/2015	3/23/2015	4/21/2015	3	3	4	4	2	3	3	3	3	3	4
Viola	Admire™ Exp. Blue	Benary	New	2/10/2015	3/23/2015	4/21/2015	3	3	3	3	2	3	3	3	3	3	3
Viola	Admire™ Exp. White	Benary	New	2/10/2015	3/23/2015	4/21/2015	3	3	3	3	3	3	2	3	3	3	3
Viola	Admire™ Exp. Yellow	Benary	New	2/10/2015	3/23/2015	4/7/2015	4	3	4	4	3	3	3	3	3	3	4
Viola	Admire™ Pink Surprise	Benary		3/23/2015	4/7/2015	4/21/2015	4	4	4	4	2	3	2	3	3	3	4
Viola	Admire™ Ruby Gold	Benary		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	2	3	3	3	4	5	5
Viola	Penny™ Blue	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	4	4	2	3	3	4	4	3	4
Viola	Penny™ Clear Yellow	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	2	2	2	3	3	2	4	4	3	3
Viola	Penny™ Deep Blue	Syngenta Flowers		2/10/2015	3/23/2015	4/21/2015	3	3	3	3	2	3	3	3	3	3	3
Viola	Penny™ Mickey	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	2	2	3	3	4	3	4	4	5
Viola	Penny™ White	Syngenta Flowers		2/10/2015	3/23/2015	4/21/2015	3	3	3	3	3	3	2	3	3	3	3
Viola	Penny™ White Jump-up	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	3	4	4	4	5
Viola	Penny™ Yellow	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	3	3	3	3	4

**Ratings = 1 (poor) to 5 (excellent)

Appearance Data and Bloom Dates

Bloom Dates

Genus	Cultivar	Company Name	Ne	1st	50%	100%	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Viola	Penny™ Yellow with Blotch	Syngenta Flowers		3/23/2015	4/7/2015	4/21/2015	3	2	2	2	2	3	2	3	3	3	3
Viola	Sorbet® Lavender Pink XP	PanAmerican Seed	New	3/23/2015	4/7/2015	4/21/2015	3	3	2	2	3	3	2	3	3	3	3
Viola	Sorbet® Yellow Pink Wing XP	PanAmerican Seed	New	2/10/2015	4/7/2015	4/21/2015	3	2	2	2	2	2	2	2	3	3	3
Viola	Sorbet® Yesterday Today Tomorrow XP	PanAmerican Seed	New	2/10/2015	3/23/2015	4/21/2015	3	2	2	3	3	3	2	3	3	3	4
Viola (Trailing)	Endurio® Blue Yellow with Purple Wing	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	2	3	3	3	3	4	5
Viola (Trailing)	Endurio® Pure Violet	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	3	3	3	3	3	3	3	4	5
Viola (Trailing)	Endurio® Pure Yellow	Syngenta Flowers		2/10/2015	3/23/2015	4/7/2015	3	3	2	3	3	3	3	4	4	4	5
Viola (Trailing)	Endurio® White	Syngenta Flowers		2/10/2015	3/23/2015	4/21/2015	3	4	3	3	3	3	2	3	3	3	3

**Ratings = 1 (poor) to 5 (excellent)

Frost Damage Data

Genus	Cultivar	Company Name	New	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Pansy	Colossus™ Deep Blue with Blotch	Syngenta Flowers		1	1	1	1	2	2	2	1	1	1	1
Pansy	Colossus™ Purple with Blotch	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy	Colossus™ White	Syngenta Flowers		1	1	1	1	1	2	2	1	1	1	1
Pansy	Colossus™ White with Blotch	Syngenta Flowers		1	1	1	1	1	2	2	1	1	2	2
Pansy	Colossus™ Yellow Improved	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy	Colossus™ Yellow with Blotch	Syngenta Flowers		1	1	1	1	2	2	1	1	1	1	1
Pansy	Cool Wave® Blue Skies	PanAmerican Seed	New	1	1	1	1	1	1	1	1	1	1	1
Pansy	Cool Wave® Lemon Surprise	PanAmerican Seed	New	1	1	1	1	1	1	1	1	1	1	1
Pansy	Delta™ Premium Deep Blue	Syngenta Flowers	New	1	1	1	1	3	1	1	1	1	1	1
Pansy	Delta™ Premium Gold with Blotch	Syngenta Flowers		1	1	1	1	2	1	2	1	1	1	1
Pansy	Delta™ Premium Neon Violet Improved	Syngenta Flowers		1	1	1	1	3	3	3	1	1	1	1
Pansy	Delta™ Premium Pure Golden Yellow	Syngenta Flowers		1	1	1	1	4	3	4	3	3	4	3
Pansy	Delta™ Premium Pure Violet	Syngenta Flowers		1	1	1	1		2	3	1	1	1	1
Pansy	Delta™ Premium Pure White	Syngenta Flowers		1	1	1	1	1	1	2	2	2	1	1
Pansy	Delta™ Premium Pure Yellow	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy	Delta™ Premium True Blue	Syngenta Flowers		1	1	1	1	1	1	1	1	1	2	1
Pansy	Delta™ Premium Violet & White	Syngenta Flowers	New	1	1	1	1	1	2	3	2	2	2	2
Pansy	Delta™ Premium White with Blotch	Syngenta Flowers		1	1	1	1	1	1	2	1	1	1	1
Pansy	Delta™ Premium Yellow with Blotch	Syngenta Flowers		1	1	1	1	1	1	2	1	1	1	1
Pansy	Delta™ Premium Yellow with Purple Wing	Syngenta Flowers	New	1	1	1	1	2	2	2	1	1	1	1
Pansy	Exp. Beaconsfield	Benary	New	1	1	1	1	1	1	2	1	1	1	1

**Ratings = 1 (little to no dieback) to 5 (Dead)

Frost Damage Data

Genus	Cultivar	Company Name	New	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Pansy	Exp. Orange	Benary	New	1	1	1	1	1	1	1	1	1	1	1
Pansy	Exp. Red Blotch	Benary	New	1	1	1	1	3	2	2	1	1	1	1
Pansy	Exp. True Blue	Benary	New	1	1	1	1	1	1	1	1	1	1	1
Pansy	Exp. XXL Denim	Benary	New	1	1	1	1	1	1	1	1	1	1	1
Pansy	Exp. XXL Violet Face	Benary	New	1	1	1	1	3	2	1	1	1	1	1
Pansy	Exp. XXL White	Benary	New	1	1	1	1	1	1	2	1	1	1	1
Pansy	Exp. XXL Yellow	Benary	New	1	1	1	1	1	1	2	1	1	1	1
Pansy	Exp. Yellow	Benary	New	1	1	1	1	2	1	1	1	1	1	1
Pansy	Experimental	PanAmerican Seed	New	1	1	1	1	2	1	2	1	1	1	1
Pansy	Experimental	PanAmerican Seed	New	1	1	1	1	2	1	1	1	1	1	1
Pansy	Karma™ Blue Sun	Syngenta Flowers	New	1	1	1	1	2	1	2	1	1	1	1
Pansy	Karma™ Rose with Blotch	Syngenta Flowers	New	1	1	1	1	1	2	2	1	1	2	2
Pansy	Mariposa™ Blue with Blotch Improved	Syngenta Flowers		1	1	1	1	3	2	2	1	1	1	1
Pansy	Mariposa™ Peach Shades Improved	Syngenta Flowers		1	1	1	1	2	1	1	1	1	1	1
Pansy	Mariposa™ True Blue	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy	Mariposa™ White	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy	Mariposa™ White with Blotch	Syngenta Flowers		1	1	1	1	2	1	1	1	1	1	1
Pansy	Mariposa™ Yellow	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy	Mariposa™ Yellow with Blotch	Syngenta Flowers		1	1	1	1	2	1	1	1	1	1	1
Pansy	Matrix™ Beaconsfield	PanAmerican Seed	New	1	1	1	1	2	1	1	1	1	1	1
Pansy	Matrix™ Solar Flame	PanAmerican Seed	New	1	1	1	1	3	1	1	1	1	1	1

**Ratings = 1 (little to no dieback) to 5 (Dead)

Frost Damage Data

Genus	Cultivar	Company Name	New	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Pansy	Spring Matrix™ Lavender Shades	PanAmerican Seed	New	1	1	1	1	1	1	2	1	1	1	1
Pansy	Spring Matrix™ Primrose	PanAmerican Seed	New	1	1	1	1	1	1	1	1	1	1	1
Pansy	Spring Matrix™ Purple White	PanAmerican Seed	New	1	1	1	1	1	1	2	1	1	1	1
Pansy (Trailing)	WonderFall™ Blue with Blotch	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy (Trailing)	WonderFall™ Purple	Syngenta Flowers		1	1	1	1	2	1	1	1	1	1	1
Pansy (Trailing)	WonderFall™ White	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy (Trailing)	WonderFall™ Yellow	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Pansy (Trailing)	WonderFall™ Yellow with Blotch	Syngenta Flowers		1	1	1	1	4	2	2	1	1	1	1
Viola	Admire™ Deep Blue	Benary		1	1	1	1	2	1	1	1	1	1	1
Viola	Admire™ Exp. Blue	Benary	New	1	1	1	1	3	2	1	1	1	1	1
Viola	Admire™ Exp. White	Benary	New	1	1	1	1	1	1	1	1	1	1	1
Viola	Admire™ Exp. Yellow	Benary	New	1	1	1	1	1	1	1	1	1	1	1
Viola	Admire™ Pink Surprise	Benary		1	1	1	1	2	3	1	1	1	1	1
Viola	Admire™ Ruby Gold	Benary		1	1	1	1	3	3	1	1	1	1	1
Viola	Penny™ Blue	Syngenta Flowers		1	1	1	1	2	1	1	1	1	1	1
Viola	Penny™ Clear Yellow	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Viola	Penny™ Deep Blue	Syngenta Flowers		1	1	1	1	2	1	1	1	1	1	1
Viola	Penny™ Mickey	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Viola	Penny™ White	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Viola	Penny™ White Jump-up	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Viola	Penny™ Yellow	Syngenta Flowers		1	1	1	1	1	2	1	1	1	1	1

**Ratings = 1 (little to no dieback) to 5 (Dead)

Frost Damage Data

Genus	Cultivar	Company Name	New	10/15	10/21	10/30	11/5	12/3	12/10	2/10	3/16	3/23	4/7	4/21
Viola	Penny™ Yellow with Blotch	Syngenta Flowers		1	1	1	1	2	2	2	1	1	1	1
Viola	Sorbet® Lavender Pink XP	PanAmerican Seed	New	1	1	1	1	1	3	1	1	1	1	1
Viola	Sorbet® Yellow Pink Wing XP	PanAmerican Seed	New	1	1	1	1	3	2	2	2	2	1	1
Viola	Sorbet® Yesterday Today Tomorrow XP	PanAmerican Seed	New	1	1	1	1	1	1	1	1	1	1	1
Viola (Trailing)	Endurio® Blue Yellow with Purple Wing	Syngenta Flowers		1	1	1	1	2	1	1	1	1	1	1
Viola (Trailing)	Endurio® Pure Violet	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Viola (Trailing)	Endurio® Pure Yellow	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1
Viola (Trailing)	Endurio® White	Syngenta Flowers		1	1	1	1	1	1	1	1	1	1	1

**Ratings = 1 (little to no dieback) to 5 (Dead)