

Colorado State University 2021-2022 Cool Season Trial Performance Report



Cool Season Trial Garden
1401 Remington Street Fort Collins, CO 80523
NE Corner of College Avenue and Lake Street
Colorado State University
Department of Horticulture and Landscape Architecture
www.flowertrials.colostate.edu

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For further information contact:

James E. Klett

Director, Annual Garden, Perennial Garden, & Cool Season Trials

Faculty Coordinator

Phone: (970) 218-0104

Fax: (970) 491-7745

E-mail: jim.klett@colostate.edu

Department of Horticulture and Landscape Architecture

Campus Delivery 1173

Fort Collins, CO 80523-1173

2021-2022 Cool Season Trial Performance Report

Dr. James E. Klett, David Staats, and Sheila Prentice¹

Introduction

This is the fourteenth year that Colorado State University has conducted a Cool Season Trial at the Annual Flower Trial Garden. It marks the twenty-second year that the Annual Flower Trial Garden has been located adjacent to the University Center for the 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 November 2021, then approximately every month from December 2021 to May 2022. Data was collected on a monthly basis when there was no snow coverage. Irrigation was monitored throughout the trials and any additional water given to these plants was recorded. The trials were evaluated by industry professionals and company representatives in April 2022.

The cool season trials at Colorado State University have no specific operation dollars from university funds. Financial assistance, plant material, and other miscellaneous materials for the trials were acquired from sponsoring seed companies. Special thanks to Dale Kiyota at Kiyota Greenhouse for their generous support in growing a flat of each of the cool season varieties at a reduced cost. Some operational and staff dollars have come from Colorado State University Agricultural Experiment Station, Extension, and the Department of Horticulture and Landscape Architecture. Seed Companies that participated in this trial were: American Takii, Benary Plus, and Syngenta.

¹ Professor and Extension Landscape Horticulture Specialist; Horticulture Research Associate; Horticulture graduate student and 2021-2022 Cool Season Trial Coordinator; respectively.

Cultural Data for the 2021-2022 Cool Season Trial Garden

Planting Days

All cool season plants were planted on October 21th, 2021. All plants arrived from Kiyota Greenhouse as rooted seedlings in a 32-cell tray. They were transplanted into planting beds located in the Annual Flower Trial Garden at 1401 Remington Street. There was one plant planted per hole, and 16 plants were planted in each of the two rows of the beds for a total of 32 plants per variety.

Watering

All precipitation and irrigation was monitored. Irrigation was utilized when natural precipitation was low and when ground media was not saturated. The winter season of 2021-2022 had more precipitation and more consistent snow cover compared to 2020-2021 season. However, the spring season of 2022 had significantly less precipitation than the previous year. The beds were watered using the gardens irrigation system in October, November, December, April, and May. Watering from December until April was done with water from a frost-free line. The irrigation typically ran for 1-3 hours on a weekly basis when snow cover was not present. The irrigation system applies .39 inches of water per hour.

Weather Data October 2021 through May 2022

Winter temperatures in 2021-2022 were typical of a sporadic Colorado winter. This year's snow amount at the trials was higher than previous years. Depending on the amount of snow, the coverage on the trials lasted from a couple days to two months in length. There was consistent snow cover from January-early March, which provided some protection from temperatures in the low teens. The first hard freeze (temperatures below 25°F) after the trials were planted was recorded on November 17, 2020 with a temperature of 22°F. Temperature data for the 2021-2022 Cool Season Trials are listed in Table 1. Weather records were provided from CSU Colorado Climate Center which are located on the main campus near the student center. Wind-chill factors are not included but can be quite significant in Colorado's winter climate.

Month	Avg. Maximum Temperature (°F)	Avg. Minimum Temperature (°F)	Precipitation (inches)	Snow (inches)
October	67.5	36.9	0.2	0.0
November	60.0	30.1	0.26	0.7
December	50.5	22.7	0.55	6.5
January	43.8	15.6	0.85	11.9
February	43.6	13.8	0.98	16.2
March	56.1	26.7	0.97	8.8
April	65.2	34.6	0.11	0.0
May 1-15	72.0	43.3	1.54	0.0

https://climate.colostate.edu/data_access.html

Data Collection Methods

Sheila Prentice (Graduate Horticulture Student) collected data throughout the 2021-2022 Cool Season Trial.

The overall appearance 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 rating score was: 1 =poor condition (frost damage is significant), 2 =weak condition (struggling with some dieback), 3=average (healthy foliage), 4 =good condition (healthy foliage growth), and 5 =great condition (many flowers with healthy uniform foliage growth).

The bloom rate scoring was 1 = poor blooming (little to no blooms), 2 = minimal blooming (few blooms) 3 = average blooming

(most are blooming, with several flowers), 4 = good blooming (multiple blooms on plants), 5 = great blooming (all plants are flowering prolifically)

Data was collected from November 2021 to May 2022 on a monthly basis.

Conclusion

The 2021-2022 Cool Season Trials were overall a success. There was consistent snow cover on the bed from January through the first week of March, which allowed for some protection from freezing temperatures. However, in April there were high winds, and very little precipitation along with drastically fluctuating temperatures (ranging from 16° F to 80° F in a matter of two weeks). Some varieties struggled during this period, but every pansy and viola variety had surviving plants. The flowering kale was less hardy, and most of the plants died. There were a few varieties that appeared to be more hardy, with one or two surviving plants.

Due to the unusual weather in Spring 2021, many varieties in the 2020-2021 trial had a rough growing season. Because of this, we made the decision for the 2021-2022 trial to plant seeds in larger cells and plant the varieties much closer together. This, along with more favorable weather conditions, allowed for better survival rates and a more impressive show of color.

We thank all of our cooperators in the 2021-2022 Cool Season Trials for their support and look forward to your participation in the support in the 2022-2023 Cool Season Trials.

2021-2022 CSU Cool Season Trial Winners

The evaluation day for the 2021-2022 CSU Cool Season Trial was held on April 27, 2022. Following are the top performing varieties selected by the CSU Trial Garden Committee.

***Viola cornuta* Penny™ Violet Tiger Face from Syngenta Flowers**

Overall uniformity was striking and described by one evaluator as looking like “little soldiers” in a perfect row. The rich velvety flowers had a bright yellow center for nice contrast and cute whiskers made it even more attractive. Winter survival was perfect without any losses or dieback.

***Viola x wittrockiana* Freefall™ Series from Syngenta Flowers**

The entire Freefall Series was noted to be especially nice due the vigorous spreading plants which looked great in the ground but also work well trailing over the side in containers. Freefall™ Golden Yellow was a standout in the series with a nice golden yellow flower and attractive green foliage. Winter hardiness was excellent.

***Viola x wittrockiana* Freefall™ Mariana from Syngenta Flowers**

This entry was noted for strong vigor and a classic blue and white pattern. As one evaluator described it, it “speaks spring”. Flowering was prolific and it had an excellent mounding growth habit and good uniformity.

***Viola x wittrockiana* Delta™ Premium Violet and White from Syngenta Flowers**

Blooms had great flower power as all the flowers faced up and almost completely obscured the vegetation. Flowers were relatively large. Dark purple combined with white to provide a very crisp pattern. Plants had good vigor and excellent uniformity.

***Viola x wittrockiana* Freefall™ Sundown**

Flowers had good depth of color with nice contrast between the dark violet and yellow. Whiskers were an added bonus on the abundant flowers. Winter hardiness was excellent without any losses or dieback. Plants and flowers had nice size as well as being very uniform.

Survival Data

Survival data was collected at the end of April 2022. The data was based on how many survived out of the 32 plants per variety. A survived plant was any plant that had green vegetative growth.

Genus	Variety	Company	Survival
Flowering Kale	F1 Pigeon Victoria	American Takii	0
Flowering Kale	F1 Pigeon White	American Takii	2
Flowering Kale	F1 Pigeon Red	American Takii	4
Flowering Kale	F1 Pigeon Purple	American Takii	1
Flowering Kale	F1 Crystal Snow	American Takii	0
Flowering Kale	F1 Crystal Pink	American Takii	3
Flowering Kale	F1 Crystal Red	American Takii	0
Flowering Kale	F1 Crystal Deep Red	American Takii	0
Flowering Kale	F1 Glamour Red	American Takii	7
Viola cornuta	Penny™ Marina Imp.	Syngenta	31
Viola cornuta	Penny™ Violet Tiger Face	Syngenta	32
Viola cornuta	Endurio® Red Flare	Syngenta	27
Viola x wittrockiana	Delta™ Premium Pure White Imp.	Syngenta	29
Viola x wittrockiana	Inspire DeluXXe® White	Benary Plus	25
Viola x wittrockiana	Inspire DeluXXe® White Blotch	Benary Plus	31
Viola x wittrockiana	Delta™ Premium White with Blotch	Syngenta	32
Viola x wittrockiana	Delta™ Premium Pure Lemon	Syngenta	32
Viola x wittrockiana	Inspire DeluXXe® Yellow	Benary Plus	25
Viola x wittrockiana	Delta™ Premium Pure Yellow	Syngenta	28
Viola x wittrockiana	Freefall™ XL Bright Yellow	Syngenta	32
Viola x wittrockiana	Freefall™ Golden Yellow	Syngenta	31
Viola x wittrockiana	Inspire DeluXXe® Yellow Blotch	Benary Plus	28

Genus	Variety	Company	Survival
Viola x wittrockiana	Delta™ Premium Yellow with Blotch Imp.	Syngenta	25
Viola x wittrockiana	Freefall™ XL Fire	Syngenta	25
Viola x wittrockiana	Delta™ Premium Yellow With Red Wing	Syngenta	19
Viola x wittrockiana	Inspire DeluXXe® Orange	Benary Plus	26
Viola x wittrockiana	Delta™ Premium Pure Orange Imp.	Syngenta	32
Viola x wittrockiana	Delta™ Premium Pure Light Blue	Syngenta	28
Viola x wittrockiana	Delta™ Premium True Blue	Syngenta	10
Viola x wittrockiana	Freefall™ True Blue	Syngenta	30
Viola x wittrockiana	Delta™ Premium Deep Blue	Syngenta	26
Viola x wittrockiana	Freefall™ Marina	Syngenta	31
Viola x wittrockiana	Delta™ Premium Lavender Blue Shades	Syngenta	30
Viola x wittrockiana	Inspire DeluXXe® Blue Surprise	Benary Plus	9
Viola x wittrockiana	Delta™ Premium Blue with Blotch	Syngenta	28
Viola x wittrockiana	Inspire DeluXXe® Deep Blue Blotch	Benary Plus	14
Viola x wittrockiana	Delta™ Premium Violet & White	Syngenta	31
Viola x wittrockiana	Inspire DeluXXe® White Violet Wing	Syngenta	29
Viola x wittrockiana	Delta™ Premium Neon Violet	Benary Plus	32
Viola x wittrockiana	Freefall™ White Rose Wing	Syngenta	32
Viola x wittrockiana	Freefall™ Purple & White	Syngenta	31
Viola x wittrockiana	Freefall™ Purple Wing	Syngenta	30
Viola x wittrockiana	Freefall™ Sundown	Syngenta	32
Viola x wittrockiana	Inspire DeluXXe® Denim	Benary Plus	24
Viola x wittrockiana	Inspire DeluXXe® Rose Velour	Benary Plus	21
Viola x wittrockiana	Delta™ Premium Pure Violet	Syngenta	29
Viola x wittrockiana	Inspire DeluXXe® Light Rose Blotch	Benary Plus	20
Viola x wittrockiana	Inspire DeluXXe® Pink Surprise Blotch	Benary Plus	27

Genus	Variety	Company	Survival
Viola x wittrockiana	Inspire DeluXXe® Red Blotch	Benary Plus	29
Viola x wittrockiana	Inspire DeluXXe® Deep Rose Blotch	Benary Plus	14
Viola x wittrockiana	Inspire DeluXXe® Ocean	Benary Plus	26
Viola x wittrockiana	Inspire DeluXXe® Old Glory Mix	Benary Plus	22
Viola x wittrockiana	Inspire DeluXXe® Maxi Mix	Benary Plus	29
Viola x wittrockiana	Inspire DeluXXe® Wine & Roses Mix	Benary Plus	20
Viola x wittrockiana	Inspire DeluXXe® Blotch Mix	Benary Plus	24
Viola x wittrockiana	Inspire DeluXXe® Blue Moon Mix	Benary Plus	26
Viola x wittrockiana	Inspire DeluXXe® Fall Daze Mix	Benary Plus	24

Frost Damage Rating by Student Coordinator

Frost Damage data was collected on a monthly basis. On a scale of 5-1, 1 represents significant frost damage while 5 represents great condition with healthy growth. “D” represents dead with no visible vegetation.

Genus	Variety	Company	Nov	Dec	March	April	May
Flowering Kale	F1 Pigeon Victoria	American Takii	4	3	D	D	D
Flowering Kale	F1 Pigeon White	American Takii	3	2	1	1	1
Flowering Kale	F1 Pigeon Red	American Takii	5	4	2	1	1
Flowering Kale	F1 Pigeon Purple	American Takii	4	3	2	2	1
Flowering Kale	F1 Crystal Snow	American Takii	3	1	D	D	D
Flowering Kale	F1 Crystal Pink	American Takii	4	1	1	1	1
Flowering Kale	F1 Crystal Red	American Takii	3	1	D	D	D
Flowering Kale	F1 Crystal Deep Red	American Takii	2	1	D	D	D
Flowering Kale	F1 Glamour Red	American Takii	4	2	2	2	2
Viola cornuta	Penny™ Marina Imp.	Syngenta	5	4	3	4	4
Viola cornuta	Penny™ Violet Tiger Face	Syngenta	5	3	3	5	5
Viola cornuta	Endurio® Red Flare	Syngenta	5	4	2	3	2
Viola x wittrockiana	Delta™ Premium Pure White Imp.	Syngenta	5	4	2	3	2
Viola x wittrockiana	Inspire DeluXXe® White	Benary Plus	4	3	2	2	1
Viola x wittrockiana	Inspire DeluXXe® White Blotch	Benary Plus	5	4	2	4	4
Viola x wittrockiana	Delta™ Premium White with Blotch	Syngenta	5	4	3	4	3
Viola x wittrockiana	Delta™ Premium Pure Lemon	Syngenta	5	4	2	4	4
Viola x wittrockiana	Inspire DeluXXe® Yellow	Benary Plus	5	4	3	3	3
Viola x wittrockiana	Delta™ Premium Pure Yellow	Syngenta	5	4	3	3	2
Viola x wittrockiana	Freefall™ XL Bright Yellow	Syngenta	5	4	3	3	3
Viola x wittrockiana	Freefall™ Golden Yellow	Syngenta	5	4	3	4	5
Viola x wittrockiana	Inspire DeluXXe® Yellow Blotch	Benary Plus	5	4	3	3	3
Viola x wittrockiana	Delta™ Premium Yellow with Blotch Imp.	Syngenta	5	4	2	2	2

Genus	Variety	Company	Nov	Dec	March	April	May
Viola x wittrockiana	Freefall™ XL Fire	Syngenta	4	4	2	2	2
Viola x wittrockiana	Delta™ Premium Yellow With Red Wing	Syngenta	4	3	3	3	2
Viola x wittrockiana	Inspire DeluXXe® Orange	Benary Plus	5	4	3	3	3
Viola x wittrockiana	Delta™ Premium Pure Orange Imp.	Syngenta	5	4	3	3	4
Viola x wittrockiana	Delta™ Premium Pure Light Blue	Syngenta	5	4	3	2	2
Viola x wittrockiana	Delta™ Premium True Blue	Syngenta	4	4	2	2	1
Viola x wittrockiana	Freefall™ True Blue	Syngenta	5	5	3	3	4
Viola x wittrockiana	Delta™ Premium Deep Blue	Syngenta	4	4	3	3	3
Viola x wittrockiana	Freefall™ Marina	Syngenta	5	4	4	3	4
Viola x wittrockiana	Delta™ Premium Lavender Blue Shades	Syngenta	5	4	3	3	2
Viola x wittrockiana	Inspire DeluXXe® Blue Surprise	Benary Plus	4	4	3	2	1
Viola x wittrockiana	Delta™ Premium Blue with Blotch	Syngenta	5	4	3	3	2
Viola x wittrockiana	Inspire DeluXXe® Deep Blue Blotch	Benary Plus	4	3	2	1	1
Viola x wittrockiana	Delta™ Premium Violet & White	Syngenta	4	3	3	3	5
Viola x wittrockiana	Inspire DeluXXe® White Violet Wing	Syngenta	4	4	2	3	3
Viola x wittrockiana	Delta™ Premium Neon Violet	Benary Plus	4	4	2	3	4
Viola x wittrockiana	Freefall™ White Rose Wing	Syngenta	4	4	3	4	4
Viola x wittrockiana	Freefall™ Purple & White	Syngenta	4	4	3	4	5
Viola x wittrockiana	Freefall™ Purple Wing	Syngenta	3	3	3	3	3
Viola x wittrockiana	Freefall™ Sundown	Syngenta	4	4	3	5	5
Viola x wittrockiana	Inspire DeluXXe® Denim	Benary Plus	4	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Rose Velour	Benary Plus	4	3	3	2	2
Viola x wittrockiana	Delta™ Premium Pure Violet	Syngenta	4	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Light Rose Blotch	Benary Plus	4	3	3	2	3
Viola x wittrockiana	Inspire DeluXXe® Pink Surprise Blotch	Benary Plus	4	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Red Blotch	Benary Plus	4	3	3	3	3

Genus	Variety	Company	Nov	Dec	March	April	May
Viola x wittrockiana	Inspire DeluXXe® Deep Rose Blotch	Benary Plus	5	4	3	2	2
Viola x wittrockiana	Inspire DeluXXe® Ocean	Benary Plus	4	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Old Glory Mix	Benary Plus	4	4	3	2	3
Viola x wittrockiana	Inspire DeluXXe® Maxi Mix	Benary Plus	4	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Wine & Roses Mix	Benary Plus	4	3	3	2	1
Viola x wittrockiana	Inspire DeluXXe® Blotch Mix	Benary Plus	4	4	3	2	3
Viola x wittrockiana	Inspire DeluXXe® Blue Moon Mix	Benary Plus	5	3	3	3	2
Viola x wittrockiana	Inspire DeluXXe® Fall Daze Mix	Benary Plus	4	4	3	3	2

Overall Appearance Rating by Student Coordinator

Overall Appearance data was collected on a monthly basis. On a scale of 1-5, 1 represents dying while 5 represents great condition with healthy growth. “D” represents dead with no visible vegetation.

Genus	Variety	Company	Nov	Dec	March	April	May
Flowering Kale	F1 Pigeon Victoria	American Takii	4	2	D	D	D
Flowering Kale	F1 Pigeon White	American Takii	3	2	1	1	1
Flowering Kale	F1 Pigeon Red	American Takii	4	3	1	1	1
Flowering Kale	F1 Pigeon Purple	American Takii	3	2	2	1	1
Flowering Kale	F1 Crystal Snow	American Takii	2	1	D	D	D
Flowering Kale	F1 Crystal Pink	American Takii	4	2	1	1	1
Flowering Kale	F1 Crystal Red	American Takii	3	1	D	D	D
Flowering Kale	F1 Crystal Deep Red	American Takii	2	1	D	D	D
Flowering Kale	F1 Glamour Red	American Takii	4	2	1	1	1
Viola cornuta	Penny™ Marina Imp.	Syngenta	4	4	3	4	4
Viola cornuta	Penny™ Violet Tiger Face	Syngenta	4	3	3	5	5
Viola cornuta	Endurio® Red Flare	Syngenta	4	4	3	3	2
Viola x wittrockiana	Delta™ Premium Pure White Imp.	Syngenta	4	3	2	3	2
Viola x wittrockiana	Inspire DeluXXe® White	Benary Plus	3	3	2	2	1
Viola x wittrockiana	Inspire DeluXXe® White Blotch	Benary Plus	4	4	3	3	4
Viola x wittrockiana	Delta™ Premium White with Blotch	Syngenta	3	3	2	4	3
Viola x wittrockiana	Delta™ Premium Pure Lemon	Syngenta	4	4	2	4	3
Viola x wittrockiana	Inspire DeluXXe® Yellow	Benary Plus	3	3	2	4	2
Viola x wittrockiana	Delta™ Premium Pure Yellow	Syngenta	4	4	3	3	2
Viola x wittrockiana	Freefall™ XL Bright Yellow	Syngenta	4	4	3	4	3
Viola x wittrockiana	Freefall™ Golden Yellow	Syngenta	4	4	2	4	4
Viola x wittrockiana	Inspire DeluXXe® Yellow Blotch	Benary Plus	4	3	2	3	2
Viola x wittrockiana	Delta™ Premium Yellow with Blotch Imp.	Syngenta	4	3	2	2	1

Genus	Variety	Company	Nov	Dec	March	April	May
Viola x wittrockiana	Freefall™ XL Fire	Syngenta	4	3	2	3	2
Viola x wittrockiana	Delta™ Premium Yellow With Red Wing	Syngenta	3	3	2	2	2
Viola x wittrockiana	Inspire DeluXXe® Orange	Benary Plus	4	4	2	3	2
Viola x wittrockiana	Delta™ Premium Pure Orange Imp.	Syngenta	4	4	2	3	3
Viola x wittrockiana	Delta™ Premium Pure Light Blue	Syngenta	4	3	3	3	2
Viola x wittrockiana	Delta™ Premium True Blue	Syngenta	4	3	3	1	1
Viola x wittrockiana	Freefall™ True Blue	Syngenta	5	4	4	4	3
Viola x wittrockiana	Delta™ Premium Deep Blue	Syngenta	4	3	3	3	2
Viola x wittrockiana	Freefall™ Marina	Syngenta	5	5	4	4	4
Viola x wittrockiana	Delta™ Premium Lavender Blue Shades	Syngenta	4	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Blue Surprise	Benary Plus	4	3	2	2	1
Viola x wittrockiana	Delta™ Premium Blue with Blotch	Syngenta	4	4	3	2	2
Viola x wittrockiana	Inspire DeluXXe® Deep Blue Blotch	Benary Plus	4	2	1	1	1
Viola x wittrockiana	Delta™ Premium Violet & White	Syngenta	4	2	2	4	4
Viola x wittrockiana	Inspire DeluXXe® White Violet Wing	Syngenta	4	3	2	3	3
Viola x wittrockiana	Delta™ Premium Neon Violet	Benary Plus	4	3	1	2	3
Viola x wittrockiana	Freefall™ White Rose Wing	Syngenta	4	4	3	5	5
Viola x wittrockiana	Freefall™ Purple & White	Syngenta	4	3	3	5	4
Viola x wittrockiana	Freefall™ Purple Wing	Syngenta	3	3	2	4	3
Viola x wittrockiana	Freefall™ Sundown	Syngenta	4	4	4	1	4
Viola x wittrockiana	Inspire DeluXXe® Denim	Benary Plus	3	3	2	2	2
Viola x wittrockiana	Inspire DeluXXe® Rose Velour	Benary Plus	3	2	2	2	2
Viola x wittrockiana	Delta™ Premium Pure Violet	Syngenta	4	4	2	3	3
Viola x wittrockiana	Inspire DeluXXe® Light Rose Blotch	Benary Plus	4	3	2	2	2
Viola x wittrockiana	Inspire DeluXXe® Pink Surprise Blotch	Benary Plus	4	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Red Blotch	Benary Plus	3	3	2	3	3

Genus	Variety	Company	Nov	Dec	March	April	May
Viola x wittrockiana	Inspire DeluXXe® Deep Rose Blotch	Benary Plus	4	4	3	2	2
Viola x wittrockiana	Inspire DeluXXe® Ocean	Benary Plus	4	3	2	2	2
Viola x wittrockiana	Inspire DeluXXe® Old Glory Mix	Benary Plus	4	3	2	2	2
Viola x wittrockiana	Inspire DeluXXe® Maxi Mix	Benary Plus	4	3	2	2	3
Viola x wittrockiana	Inspire DeluXXe® Wine & Roses Mix	Benary Plus	4	3	3	1	2
Viola x wittrockiana	Inspire DeluXXe® Blotch Mix	Benary Plus	4	3	2	2	3
Viola x wittrockiana	Inspire DeluXXe® Blue Moon Mix	Benary Plus	4	3	3	2	3
Viola x wittrockiana	Inspire DeluXXe® Fall Daze Mix	Benary Plus	4	4	2	3	3

Bloom Rating by Student Coordinator

Bloom Rating data was collected on a monthly basis. On a scale of 1-5, 1 represents no blooms while 5 represents prolific flowering. "D" represents dead with no visible vegetation.

Genus	Variety	Company	Nov	Dec	March	April	May
Flowering Kale	F1 Pigeon Victoria	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Pigeon White	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Pigeon Red	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Pigeon Purple	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Crystal Snow	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Crystal Pink	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Crystal Red	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Crystal Deep Red	American Takii	N/A	N/A	N/A	N/A	N/A
Flowering Kale	F1 Glamour Red	American Takii	N/A	N/A	N/A	N/A	N/A
Viola cornuta	Penny™ Marina Imp.	Syngenta	2	1	2	5	5
Viola cornuta	Penny™ Violet Tiger Face	Syngenta	4	2	3	5	5
Viola cornuta	Endurio® Red Flare	Syngenta	3	2	2	4	3
Viola x wittrockiana	Delta™ Premium Pure White Imp.	Syngenta	2	2	1	4	2
Viola x wittrockiana	Inspire DeluXXe® White	Benary Plus	2	1	1	3	2
Viola x wittrockiana	Inspire DeluXXe® White Blotch	Benary Plus	2	1	2	3	4
Viola x wittrockiana	Delta™ Premium White with Blotch	Syngenta	3	1	1	4	3
Viola x wittrockiana	Delta™ Premium Pure Lemon	Syngenta	3	3	1	4	3
Viola x wittrockiana	Inspire DeluXXe® Yellow	Benary Plus	2	1	1	4	3
Viola x wittrockiana	Delta™ Premium Pure Yellow	Syngenta	4	4	3	4	3
Viola x wittrockiana	Freefall™ XL Bright Yellow	Syngenta	3	3	3	4	3
Viola x wittrockiana	Freefall™ Golden Yellow	Syngenta	3	2	2	4	5
Viola x wittrockiana	Inspire DeluXXe® Yellow Blotch	Benary Plus	3	2	2	3	3
Viola x wittrockiana	Delta™ Premium Yellow with Blotch Imp.	Syngenta	4	3	2	3	2

Genus	Variety	Company	Nov	Dec	March	April	May
Viola x wittrockiana	Freefall™ XL Fire	Syngenta	2	1	2	3	3
Viola x wittrockiana	Delta™ Premium Yellow With Red Wing	Syngenta	2	2	2	3	2
Viola x wittrockiana	Inspire DeluXXe® Orange	Benary Plus	3	1	2	3	3
Viola x wittrockiana	Delta™ Premium Pure Orange Imp.	Syngenta	3	2	2	4	3
Viola x wittrockiana	Delta™ Premium Pure Light Blue	Syngenta	2	1	3	3	2
Viola x wittrockiana	Delta™ Premium True Blue	Syngenta	2	1	3	2	1
Viola x wittrockiana	Freefall™ True Blue	Syngenta	4	4	4	4	4
Viola x wittrockiana	Delta™ Premium Deep Blue	Syngenta	2	3	3	2	3
Viola x wittrockiana	Freefall™ Marina	Syngenta	5	5	4	5	5
Viola x wittrockiana	Delta™ Premium Lavender Blue Shades	Syngenta	4	4	3	4	3
Viola x wittrockiana	Inspire DeluXXe® Blue Surprise	Benary Plus	3	3	2	2	2
Viola x wittrockiana	Delta™ Premium Blue with Blotch	Syngenta	3	4	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Deep Blue Blotch	Benary Plus	2	1	1	1	1
Viola x wittrockiana	Delta™ Premium Violet & White	Syngenta	4	2	2	4	5
Viola x wittrockiana	Inspire DeluXXe® White Violet Wing	Syngenta	3	2	2	3	4
Viola x wittrockiana	Delta™ Premium Neon Violet	Benary Plus	3	2	1	3	4
Viola x wittrockiana	Freefall™ White Rose Wing	Syngenta	4	4	3	5	5
Viola x wittrockiana	Freefall™ Purple & White	Syngenta	4	4	3	4	5
Viola x wittrockiana	Freefall™ Purple Wing	Syngenta	2	2	2	4	3
Viola x wittrockiana	Freefall™ Sundown	Syngenta	5	3	4	5	5
Viola x wittrockiana	Inspire DeluXXe® Denim	Benary Plus	2	2	2	3	3
Viola x wittrockiana	Inspire DeluXXe® Rose Velour	Benary Plus	3	2	2	3	3
Viola x wittrockiana	Delta™ Premium Pure Violet	Syngenta	3	2	2	3	4
Viola x wittrockiana	Inspire DeluXXe® Light Rose Blotch	Benary Plus	3	1	2	3	3
Viola x wittrockiana	Inspire DeluXXe® Pink Surprise Blotch	Benary Plus	2	1	3	3	4
Viola x wittrockiana	Inspire DeluXXe® Red Blotch	Benary Plus	1	1	2	3	4

Genus	Variety	Company	Nov	Dec	March	April	May
Viola x wittrockiana	Inspire DeluXXe® Deep Rose Blotch	Benary Plus	2	1	2	3	2
Viola x wittrockiana	Inspire DeluXXe® Ocean	Benary Plus	2	2	2	3	3
Viola x wittrockiana	Inspire DeluXXe® Old Glory Mix	Benary Plus	2	2	2	2	3
Viola x wittrockiana	Inspire DeluXXe® Maxi Mix	Benary Plus	3	2	2	3	4
Viola x wittrockiana	Inspire DeluXXe® Wine & Roses Mix	Benary Plus	2	1	2	2	3
Viola x wittrockiana	Inspire DeluXXe® Blotch Mix	Benary Plus	2	2	2	2	3
Viola x wittrockiana	Inspire DeluXXe® Blue Moon Mix	Benary Plus	2	1	3	3	3
Viola x wittrockiana	Inspire DeluXXe® Fall Daze Mix	Benary Plus	1	2	2	3	3

Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Flowering Kale	Crystal Deep Red	American Takii		[4] Low Vigor	1.00	All dead (6), very small plants that did not survive cold temps (2)
Flowering Kale	Crystal Pink	American Takii		[4] Low Vigor	1.00	Barely alive (2), dead (6)
Flowering Kale	Crystal Red	American Takii	New	[4] Low Vigor	1.00	All dead (6), not hardy (3), all plants died
Flowering Kale	Crystal Snow	American Takii	New	[4] Low Vigor	1.00	All dead (6), did not survive (2)
Flowering Kale	Glamour Red	American Takii		[3] Low Vigor	1.08	Alive (4), dead (3), mostly dead, not very hardy but still hardiest of all kale (2), Very small plants did not survive cold temps with a few plants having small amounts of green foliage.

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Flowering Kale	Pigeon Purple	American Takii		[3] Low Vigor	1.08	Dead (3), did not survive (2), not very hardy (2), one plant with roughly 30% green foliage (2)
Flowering Kale	Pigeon Red	American Takii		[2] Low Vigor	1.08	Dead (4), weak, all failed to survive (4), not hardy (1)
Flowering Kale	Pigeon Victoria	American Takii		[3] Low Vigor	1.08	All dead (5), weak, did not survive (3), not hardy
Flowering Kale	Pigeon White	American Takii		[3] Low Vigor	1.15	All dead, weak, dead (5), two plants have roughly 50% green foliage (2), very few survived.
Viola cornuta	Endurio® Red Flare	Syngenta		[1] Few Flowers, [2] Some Chlorosis, [2] Uniform, [2] Vibrant Flower Color, [3] Unique Flower Color, [5] Many Flowers, [8] Low Vigor, [8] Non-Uniform	2.54	20% of plants are small and lack vigor, about half plants declining, very floriferous with unique red/orange/yellow flowers, good color on weak plants, more than half of the plants did not survive the cold temps, muddy red color, not as vigorous, patchy growth, quite a few don't look healthy, showing significant winter damage, strong plants but flower not attractive, lots of color fade, a few dead plants, unique color, some almost have an ombre variation of orange/red

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola cornuta	Penny™ Marina Imp.	Syngenta	New	[10] Many Flowers, [1] Few Flowers, [1] Low Vigor, [1] Some Chlorosis, [3] Unique Flower Color, [5] Vigorous Plant, [7] Uniform	3.38	Good color, not very vigorous, one rouge smallish and flowers bent over, slightly unstable color, some color fade, nice periwinkle color, two plants declining, very floriferous, uniform light blue, uniform plant and flowers with slight variations of shades, very compact
Viola cornuta	Penny™ Violet Tiger Face	Syngenta	New	[11] Uniform, [12] Many Flowers, [1] Unique Colors, [3] Great Foliage, [3] Unique Flower Color, [8] Vibrant Flower Color, [9] Vigorous Plant	4.15	Best viola, great wine colored flowers with yellow eye, many flowers, strong plants, all alive, very attractive, the contrast of violet and yellow draws someone in, like the yellow face on purple makes it pop, near perfect, rich bicolor flower, unique flower pattern, very bright color, unique and vibrant, very uniform, covered in numerous attractive purple and yellow small flowers, clear winner in this class, very uniform plants and flowers, vibrant color.
Viola x wittrockiana	Delta™ Premium Blue with Blotch	Syngenta		[1] Great Foliage, [1] Unique Colors, [1] Unique Flower, [2] Low Vigor, [2] Unique Flower Color, [4] Non-Uniform, [5] Vigorous Plant, [6] Uniform, [7] Many Flowers, [7] Vibrant Flower Color	3.15	Deep purple flower color, electric blue, many flowers on taller stems, some plants not as vigorous, good blue color, but some winter damage, good color on tiny plants few dying, really like the flower color and pattern, mixed survival, reasonably showy overall, some plants declining, remaining covered in deep blue large flowers, strong plants, only a few dead, large flowers, great vibrant color, nice contrast of dark flower color and yellow eye, uniform with unique flower colors and large flower size
Viola x wittrockiana	Delta™ Premium Deep Blue	Syngenta		[1] Few Flowers, [1] Great Foliage, [1] Unique Colors, [3] Unique Flower Color, [3] Vigorous Plant, [4] Low Vigor, [4] Many Flowers, [4] Uniform, [5] Non-Uniform, [8] Vibrant Flower Color	2.92	Deep purple color, good plants, a few dead but has great flower color, lots of flowers, great color, some winter kill, like the deep violet color, love the colors but plants are tiny and dying, many flowers nice color, some plants did not survive the cold temps, nice flower size, smaller plants, very vibrant large dark blue flowers, some losses, very nice deep purple, not very uniform in health, vibrant colors, matches name well, yellow center is a well added touch
Viola x wittrockiana	Delta™ Premium Lavender Blue Shades	Syngenta		[1] Low Vigor, [1] Uniform, [2] Unique Flower Color, [3] Color Does Not Match Name, [3] Vibrant Flower Color, [4] Unique Colors, [5] Vigorous Plant, [6] Non-Uniform, [7] Many Flowers	2.62	Beautiful shades of lavender, definite mix, lots of different colors but looked more purple than blue, many flowers, variation in color from red-purple to light white-blue, more of a lavender white than blue verging on pink in some overall good growth, non-uniform but very floriferous with vibrant lavender flowers, okay but not uniform, small plants, uneven mix of colors, a few weak plants, some winter damage, bright colors on the darker flowers, but the lighter shades are weak, variation in flower colors, looks like multiple colors across entry

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Delta™ Premium Neon Violet	Syngenta		[1] Great Foliage, [1] Low Vigor, [1] Unique Colors, [2] Unique Flower Color, [3] Non-Uniform, [6] Uniform, [6] Vibrant Flower Color, [6] Vigorous Plant, [9] Many Flowers	3.38	Flowers face upward but small plants , moderate flowering, Non uniform, but healthy foliage with numerous vibrant purple flowers, not very uniform, some plants are small and others are nice with nice flowers, lovely intense flower color, bright flower color bright, nice pattern, very electric/neon in color, dark centers highlighted with blue background, vibrant violet color, a few dead plants, large flowers, looks nice
Viola x wittrockiana	Delta™ Premium Pure Lemon	Syngenta		[11] Many Flowers, [1] Great Foliage, [1] Low Vigor, [1] Unique Flower Color, [7] Uniform, [7] Vibrant Flower Color, [7] Vigorous Plant	3.62	Best yellow in the bed, looks great, large flowers, strong plants, tons of flowers , bright and sunny looking on small plants, bright lemon yellow, hold onto spent flowers, vibrant and unique yellow, medium size flowers and many flowers, quite a bit of variation in health, very showy, very uniform, no dieback, covered in numerous large bright yellow flowers
Viola x wittrockiana	Delta™ Premium Pure Light Blue	Syngenta		[1] Few Flowers, [1] Some Chlorosis, [1] Uniform, [1] Vigorous Plant, [2] Vibrant Flower Color, [4] Many Flowers, [4] Unique Flower Color, [6] Non-Uniform, [8] Low Vigor	2.38	50% lack vigor, darker center gradient to light blue, lots of flowers, low vigor, about half plants declining, attractive soft blue flowers, not very healthy, nice light blue, but winter damage, large flowers, a few dead plants, pretty attractive, nice uniform color but tiny plants some almost dead, soft blue, some losses, some not very vigorous, variation in sizes of plants and flowers but has a unique flower color.
Viola x wittrockiana	Delta™ Premium Pure Orange Imp.	Syngenta	New	[10] Uniform, [11] Many Flowers, [2] Great Foliage, [2] Low Vigor, [4] Unique Flower Color, [5] Vibrant Flower Color, [5] Vigorous Plant	3.46	Brighter orange, some cold damage on flowers, darker vibrant electric orange. Stands out and densely uniform, good color on small plants could be a good one , larger flower size, not vigorous, but consistent, vibrant orange flowers , really deep orange, strong plants, less sun fade, large flower heads, uniform plants and flowers, color is slightly washed out
Viola x wittrockiana	Delta™ Premium Pure Violet	Syngenta		[1] Great Foliage, [2] Low Vigor, [3] Non-Uniform, [3] Unique Flower Color, [4] Vigorous Plant, [6] Many Flowers, [7] Uniform, [8] Vibrant Flower Color	3.00	Large flowers bright color, some winter damage, large purple flowers, looks showy overall, nice unusual color on smallish plants has potential, non-uniform, but floriferous, pretty balanced and vibrant with dark flowers and yellow center dot, some look stunted, strong plants, vibrant color, large flowers, no color fade, uniform plants and flowers, variation in health but very nice flower, velvety purple color

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Delta™ Premium Pure White Imp.	Syngenta	New	[1] Disease Present, [1] Vibrant Flower Color, [1] Vigorous Plant, [2] Many Flowers, [3] Few Flowers, [3] Uniform, [4] Some Chlorosis, [5] Non-Uniform, [7] Low Vigor	2.38	Clean white, didn't bush out as much and holds onto spent flowers, flowering is weak and not a lot of color, Flower petals are mostly wilting across each plant, flowers not attractive as they age, very small flowered, most plants seem chlorotic and don't look too great, not virorous, some sun scaldm, smaller plants, all alive, flowers have some cold damage, nice white color with yellow eye, weak growing some yellow leaves, has winter damage.
Viola x wittrockiana	Delta™ Premium Pure Yellow	Syngenta		[1] Color Does Not Match Name, [1] Few Flowers, [1] Great Foliage, [2] Low Vigor, [2] Unique Flower Color, [3] Vigorous Plant, [5] Non-Uniform, [5] Vibrant Flower Color, [6] Uniform, [8] Many Flowers	2.77	Couple are dead mostly good growth, golden yellow solid flowers, simple. , large blotch some death, mostly survived the winter, only a couple weaker plants, nice plants, lots of good vibrant yellow flowers, a few dead plants, nice yellow-orange flower color, many vibrant yellow flowers, open grower but good color, showy overall, slightly golden in color
Viola x wittrockiana	Delta™ Premium True Blue	Syngenta		[1] Unique Flower Color, [3] Many Flowers, [3] Vibrant Flower Color, [5] Few Flowers, [7] Non-Uniform, [9] Low Vigor	1.62	80% failed to survive winter, good color on plants that are alive and healthy, Like color but plants dying , small plants , Lower overall vigor, simple blue flowers, Not very vigorous, Most are dead some came through and look alright , Most plants did not survive the cold temps but color is nice on the few that did.
Viola x wittrockiana	Delta™ Premium Violet & White	Syngenta		[10] Uniform, [12] Many Flowers, [3] Unique Colors, [3] Unique Flower Color, [5] Vibrant Flower Color, [9] Vigorous Plant	4.15	Good flower power and blooms face upward nice, good flower variegation, good winter survival, nice color pattern, consistent pattern, lots of flowers and appear very uniform mounds , near perfect, really nice crisp pattern in flowers, good flower size, strong plants, only one dead, large flowers with great color, very uniform with many nice flowers
Viola x wittrockiana	Delta™ Premium White with Blotch	Syngenta		[12] Many Flowers, [1] Great Foliage, [1] Unique Flower, [1] Unique Flower Color, [2] Low Vigor, [3] Vibrant Flower Color, [4] Vigorous Plant, [7] Uniform	3.00	Good winter tolerance, large yellow flowers, lots of color on tiny plants, many flowers covering most of the plant., more low growing, smaller flowers. uniform across, really nice bright pattern on flowers, strong plants, small flowers, color is good but last variety looks better in comparison, many medium sized white/purple flowers, very showy, good winter survival

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Delta™ Premium Yellow with Blotch Imp.	Syngenta	New	[1] Few Flowers, [1] Uniform, [1] Unique Flower, [2] Unique Flower Color, [3] Vibrant Flower Color, [4] Many Flowers, [5] Non-Uniform, [9] Low Vigor	2.15	About 20% failed to survive winter, bright yellow some almost all black petals, not as vigorous in maturity, nice flower color but weak plants, non-uniform, plants quite small, small flowers for full size pansy, small plants with medium sized flowers, some death, winter damage more significant
Viola x wittrockiana	Delta™ Premium Yellow With Red Wing	Syngenta	New	[1] Some Chlorosis, [1] Uniform, [1] Unique Colors, [1] Unique Flower, [1] Unique Flower Color, [2] Color Does Not Match Name, [3] Many Flowers, [3] Vibrant Flower Color, [5] Few Flowers, [5] Low Vigor, [8] Non-Uniform	2.38	About 30% of plants slow to come back from winter , About half plants declining, but showy maroon/yellow flowers, lots of variation in face poor plants, many dead not too vibrant in growth, nice flower, non-uniform, red wings not as vibrant, size also varies, nice purple leaves, significant winter damage, some dead plants but great bright/unique flower color, large flowers, could be stronger, variation in flower size
Viola x wittrockiana	Freefall™ Golden Yellow	Syngenta		[10] Many Flowers, [1] Non-Uniform, [2] Great Foliage, [6] Vibrant Flower Color, [7] Uniform, [9] Vigorous Plant	3.46	Foliage draws me in, finer or dark green appearance, good winter survival, great yellow flowers, strong plants, all survived, lots of flowers, Healthy veg growth, very floriferous, looks to be a solid set some flowers are wilted but over all look good, more vigorous winter survival, see more green than yellow but has potential, smaller flowers with elongated stems, starting to exhibit spreading habit.
Viola x wittrockiana	Freefall™ Marina	Syngenta		[11] Uniform, [12] Many Flowers, [1] Unique Colors, [2] Great Foliage, [2] Unique Flower, [4] Vibrant Flower Color, [6] Unique Flower Color, [9] Vigorous Plant	4.38	Good healthy plants,lots of flowers,unique pattern, great color design, light inner line with light blue/violet flowers, great series, strong great looking plants, lots of flowers, nice color, all survived, very uniform, the color combo is nice, growth is a wonderful clump of flowers, looks great, looks healthy and bright, looks like spring, loaded with lots of soft blue and white flowers, lots of color cover plants few small plants, nice eye, very vigorous, nice plant and color, uniform, vigorous plants with numerous light blue/lilac flowers.
Viola x wittrockiana	Freefall™ Purple & White	Syngenta		[10] Many Flowers, [1] Non-Uniform, [1] Unique Colors, [2] Great Foliage, [3] Unique Flower, [3] Unique Flower Color, [5] Vibrant Flower Color, [8] Vigorous Plant, [9] Uniform	3.92	Free Fall series overall is stunning, great purple white bicolor, very strong plants, looks great, great contrast, love the face pattern, plants vigorous & healthy, only one plant smaller than the rest, very floriferous, spreading habit some difference in color, starting to spread, very attractive, very uniform with elongated stems, white center purple outside, yellow dot in the center of the flower pops, dense foliage.

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Freefall™ Purple Wing	Syngenta		[1] Great Foliage, [2] Few Flowers, [2] Low Vigor, [2] Unique Flower, [4] Uniform, [4] Vigorous Plant, [5] Many Flowers, [5] Unique Flower Color, [6] Vibrant Flower Color, [7] Non-Uniform	2.69	Different plant sizes and color sizes, less vigorous overall than others in series, mixed health, more compact of a variety, nice bright floor pattern, but some winter kill, nice whiskers, non-uniform but floriferous with many smaller purple and yellow flowers, unique pattern of color, some spotty growth habit but the flower color is impressive, unique flower variation, mostly strong plants, could be larger, love the vibrant yellow
Viola x wittrockiana	Freefall™ Sundown	Syngenta	New	[10] Many Flowers, [1] Great Foliage, [1] Non-Uniform, [2] Unique Colors, [4] Unique Flower Color, [7] Vigorous Plant, [9] Uniform, [9] Vibrant Flower Color	4.08	Flowers held above foliage well, good combo color makes it interesting to look at, intense purple yellow bicolor, nice size flower for viola category, large dark wings stand out, nice yellow and purple mix, some plants non-uniform but very floriferous with numerous purple and yellow flowers, strong plants, amazing vibrant flower color, nice purple yellow bicolor, large flowers, very uniform plants and flowers with elongated stems, widespreading habit with lots of flowers
Viola x wittrockiana	Freefall™ True Blue	Syngenta		[10] Vibrant Flower Color, [12] Many Flowers, [1] Great Foliage, [1] Non-Uniform, [2] Unique Flower Color, [8] Uniform, [8] Vigorous Plant	3.92	Acceptable because lots of color but plants not very uniform, good survival, lots of bright blue flowers, strong petals, great strong plants, great blue color with yellow eye, very attractive, looks very healthy and bright, love all the shades of blue present in the flowets, smaller but bright blue flowers, more upright/mounding habit, very attractive overall , very floriferous, a few smaller plants, gorgeous medium blue flowers, very unique color uniform plants and flowers slightly elongated stems but not too much
Viola x wittrockiana	Freefall™ White Rose Wing	Syngenta	New	[11] Uniform, [12] Many Flowers, [1] Color Does Not Match Name, [1] Great Foliage, [1] Unique Colors, [1] Unique Flower, [2] Vibrant Flower Color, [4] Unique Flower Color, [7] Vigorous Plant	3.23	Healthy foliage with numerous light purple/white small flowers, light color looks white except for new flowers, plants healthy, teally nice smaller, colorful flower, dlightly smaller plants but very strong, nice lilac and white bicolor, very attractive, slightly unstable color, smaller flowers, fade to white, the touch of lavender with white is quite pleasant, the white flowers with rose back petals very vigorous, very uniform plants and flowers but more of a white with lavender wing, very very light rose wings
Viola x wittrockiana	Freefall™ XL Bright Yellow	Syngenta		[12] Many Flowers, [1] Great Foliage, [1] Low Vigor, [1] Unique Flower, [1] Unique Flower Color, [6] Vibrant Flower Color, [6] Vigorous Plant, [9] Uniform	3.38	Black inner lash, dark undersides, lower growing, flowers are smaller in size but many flowers, bright!, good strong plants, nice yellow color with dark blotch, covered in flowers, growth uniformity is a little off but looks overall good several dead, slightly non-uniform, but covered in bright yellow flowers, smaller flower, starting to exhibit spreading habit, the ones that are healthy appear very vigorous, few look like they didn't make it in the front, two plants failed to survive or else would rate as 5, very low grower but has lots of color

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Overall Rating and Comments by Evaluators on Evaluation Day

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Viola x wittrockiana	Freefall™ XL Fire	Syngenta		[1] Many Flowers, [1] Unique Flower, [1] Vigorous Plant, [2] Unique Colors, [3] Vibrant Flower Color, [4] Few Flowers, [4] Unique Flower Color, [7] Low Vigor, [8] Non-Uniform	1.85	About half dead, the few really strong ones look great with a vibrant and unique flower color, flowers have nice color where present many are dead many appear to be struggling, great variation of red to orange to yellow, some plants not as vigorous, great abstracting design, lots of variation not uniform, love the bicolor, perhaps better for fall use, non-uniform, with vibrant yellow/orange/red flowers, variation in flower color, only half survived good enough to look showy, some death, small flowers, significant winter damage
Viola x wittrockiana	Inspire DeluXXe® Blotch Mix	Benary Plus		[1] Many Flowers, [1] Vibrant Flower Color, [2] Few Flowers, [8] Low Vigor, [9] Non-Uniform	1.92	25% are struggling, could be hardier, nice color on stronger plants, didn't survive winter well, flowers weak & small, high losses, lots of variation in health, few really nice purple and red flowers, non-uniform, about half of plants declining, not well balanced mix in terms of color, only the purple holding on many small and some dying, really purple, doesn't pop as well, small plants and variable flower sizes.
Viola x wittrockiana	Inspire DeluXXe® Blue Moon Mix	Benary Plus		[1] Unique Colors, [2] Vibrant Flower Color, [3] Uniform, [3] Unique Flower Color, [3] Vigorous Plant, [4] Low Vigor, [5] Non-Uniform, [6] Many Flowers	2.92	Three plants dead, great color, color balance uniform, fun concept with all the great blues and white to pop it in pack, good colors in the mix, good combo but non uniform plants keep it back, vigor is not uniform, slightly unhealthy, nice name for the mix, not a lot of consistency with the mix, several plants declining, purple and white mix, unique colors and somewhat uniform across entry
Viola x wittrockiana	Inspire DeluXXe® Blue Surprise	Benary Plus		[10] Low Vigor, [2] Many Flowers, [2] Unique Flower Color, [3] Few Flowers, [4] Vibrant Flower Color, [6] Non-Uniform	1.62	A few still growing on but mostly dead, high mortality rate, less vigorous but dense flowers on few, lot of death, most of plants dead or dying, remaining have vibrant large purple flowers, not a lot of survival, not many survived cold temps but vibrant colors on the few that did, poor winter survival, significant winter kill
Viola x wittrockiana	Inspire DeluXXe® Deep Blue Blotch	Benary Plus		[10] Low Vigor, [1] Uniform, [1] Unique Flower Color, [3] Vibrant Flower Color, [6] Non-Uniform, [8] Few Flowers	1.38	Barely alive, high plant mortality, lots of death, many dying but I love the big blotch too bad, not very happy here, most plants did not survive cold temps, poor winter survival, nice blotch pattern, smaller flowers, less survival rate but has a dark appearance that draws you in, weak and small plants, most dead, nice color on the few that survived

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Inspire DeluXXe® Deep Rose Blotch	Benary Plus		[1] Vibrant Flower Color, [2] Unique Flower Color, [6] Few Flowers, [6] Non-Uniform, [9] Low Vigor	1.69	A lot of losses, dying and little color available, flower do not show well - browns out. lot of death, most are dead or on their last leg, color pale, nice wine colored flowers, could be hardier, small plants, most plants did not survive, not healthy plants, flower color dull or muddy, small but great dark color, unhealthy
Viola x wittrockiana	Inspire DeluXXe® Denim	Benary Plus		[1] Color Does Not Match Name, [1] Unique Flower, [2] Vigorous Plant, [4] Many Flowers, [4] Unique Colors, [5] Low Vigor, [5] Vibrant Flower Color, [7] Non-Uniform, [7] Unique Flower Color	2.62	Color isn't stable, doesn't look very Denim - more Neon violet to me, Electric blue but some reverting to yellow hue, enjoy the colors, fade to bronze, great and unique flower color but weak plants, good flower size , large flowers, large flowers slight uniformity issues, non uniform, unique purple and yellow pattern on flowers, really nice flower but mixed health, very pretty rich flower pattern, some foliage bronzing
Viola x wittrockiana	Inspire DeluXXe® Fall Daze Mix	Benary Plus		[1] Color Does Not Match Name, [1] Few Flowers, [1] Unique Colors, [1] Unique Flower Color, [1] Vigorous Plant, [2] Vibrant Flower Color, [3] Many Flowers, [5] Low Vigor, [8] Non-Uniform	2.46	About half the plants are declining, balanced mix, not a real fall mix, not very fall in feel, some large blooms, some plants struggling with vigor, some winter damage. unhealthy but nice mix, varying flower sizes and plant habits, yellow pops in color mix, covered in blooms
Viola x wittrockiana	Inspire DeluXXe® Light Rose Blotch	Benary Plus		[1] Unique Colors, [1] Unique Flower Color, [2] Many Flowers, [2] Vibrant Flower Color, [4] Few Flowers, [7] Low Vigor, [8] Non-Uniform	2.23	About half of plants declining, borderline acceptable uniformity, many are dead, not strong plants weak flower color, not very uniform plant or flowers, plants struggle to grow flowers fade badly, really like the flower color but not very healthy, some losses, weak plants, many dead, flowers look poorly, lots of color fade
Viola x wittrockiana	Inspire DeluXXe® Maxi Mix	Benary Plus		[1] Low Vigor, [3] Unique Colors, [3] Unique Flower Color, [3] Vibrant Flower Color, [4] Non-Uniform, [4] Uniform, [4] Vigorous Plant, [8] Many Flowers	3.23	Great flower color variation, fun mix, only a few dead plants, vibrant color, I like this mix vibrant but low vigor holds it back, large flowers, nice contrast from dark center and light center mixed, non-uniform, good flower show on about half, okay mix, only a few unhealthy, large majority healthy and vibrant, pure yellow in the mix seems not as strong as the other colors, showy in general, various colors and vibrant

Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Inspire DeluXXe® Ocean	Benary Plus		[1] Low Vigor, [1] Vibrant Flower Color, [2] Uniform, [2] Unique Flower, [2] Unique Flower Color, [3] Unique Colors, [4] Vigorous Plant, [5] Non-Uniform, [9] Many Flowers	2.92	About 1/3 of plants declining, remaining plants are floriferous, amazing flower color and variation, lots of variation in health too, blue is deep and vibrant, classic ocean pattern with nice flower size, color not stable, flowers strong on plant some winter kill, the blue ones are very nice, large flowers, some all white flowers, most plants survived, nice violet color, uneven mix of colors, obvious ocean is blue not a great mix, too many off-types, unique flower shades but sizes are varied
Viola x wittrockiana	Inspire DeluXXe® Old Glory Mix	Benary Plus		[1] Few Flowers, [1] Uniform, [1] Unique Flower Color, [2] Many Flowers, [2] Unique Colors, [3] Vibrant Flower Color, [5] Low Vigor, [8] Non-Uniform	2.00	About 30% failed to survive winter, awesome potential for a great mix, plant mortality fairly high, color mix not glorious, about 1/2 are dead, plants that survived are small and weak, lots of different flower colors but not very healthy, many dead ones that held on look nice, lot of death, more than half plants declining, not very uniform, some losses, suits the name
Viola x wittrockiana	Inspire DeluXXe® Orange	Benary Plus		[10] Uniform, [1] Great Foliage, [2] Low Vigor, [2] Vibrant Flower Color, [3] Unique Flower Color, [5] Vigorous Plant, [8] Many Flowers	3.08	Color is more pastel, dull color, cold damage on petals, flowers fade and small plants, good light orange flower color, a little sun faded, strong plants, many plants survived but color is a little washed out, uniform plants and uniform flowers, nice pale orange color, pale color foliage looks good flowers lack a certain perkyness, simple tangerine orange, lighter washed out but vigorous, small plants but very floriferous with soft orange flowers, some bronzing of foliage
Viola x wittrockiana	Inspire DeluXXe® Pink Surprise Blotch	Benary Plus		[1] Color Does Not Match Name, [1] Great Foliage, [1] Uniform, [1] Vibrant Flower Color, [2] Low Vigor, [2] Unique Colors, [3] Unique Flower Color, [3] Vigorous Plant, [6] Many Flowers, [9] Non-Uniform	2.77	About 6 plants declining, rest not very uniform, large showy flowers, 20% struggling to come back from winter, lot of variation in color flower, lots of flowers, pink hue sometimes not present and just white flowers, lots of variation in health and in flower color, love the soft shades of pink and white, if it had survived winter better would have scored higher, some color fade, some color reverting, a few dead plants, overall strong plants, some flowers are just white blotch, some winter kill, too variable various with colors/shades/flower sizes
Viola x wittrockiana	Inspire DeluXXe® Red Blotch	Benary Plus		[1] Color Does Not Match Name, [1] Few Flowers, [2] Great Foliage, [2] Low Vigor, [3] Uniform, [4] Unique Flower Color, [4] Vibrant Flower Color, [5] Vigorous Plant, [6] Many Flowers, [7] Non-Uniform	2.92	Attractive flower color, not uniform sized plants, flower color not consistent, lot of fading of flower color, nice red flower color, stronger than others, some color fade, only a few dead plants, nice red flowers, lots of variation in health, the plant is there but color not consistent, the rusted red adds variety but nice uniformity

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Inspire DeluXXe® Rose Velour	Benary Plus		[2] Color Does Not Match Name, [2] Few Flowers, [2] Uniform, [2] Unique Colors, [2] Vibrant Flower Color, [3] Many Flowers, [6] Low Vigor, [6] Non-Uniform, [6] Unique Flower Color	2.15	Looks more violet then Rose. a lot of winter kill, more than half plants declining, attractive flowers , mostly dead some still look alright, not rose colored, good purple color, mostly strong plants, nice yellow eye, rich rosy purple flower color with contrasting yellow throat and surrounding dark pattern in face, great color combo, some death, some losses, uniform with a unique color flower, vigor is struggling - about 70% alive after winter, What's growing is good but lacks uniform growth
Viola x wittrockiana	Inspire DeluXXe® White	Benary Plus		[10] Low Vigor, [1] Many Flowers, [1] Unique Flower, [1] Vigorous Plant, [2] Few Flowers, [5] Some Chlorosis, [7] Non-Uniform	2.00	About 1/3 of plants declining, about 25 of plants are very small or dead, didn't size up, has less flowers too, flowers unattractive and small, growth is less than desired many throughout are dead, looked to have survived the cold but not much longer, not happy here, plants that still have flowers do have very bright white flowers, more winter damage, few dead plants, small plants.
Viola x wittrockiana	Inspire DeluXXe® White Blotch	Benary Plus		[1] Great Foliage, [2] Non-Uniform, [2] Unique Flower Color, [3] Uniform, [4] Low Vigor, [4] Unique Flower, [7] Vigorous Plant, [9] Many Flowers	3.15	Just weak few flowers and they are floppy , large blooms, showy, large flower, large flowers! , off-white color, large flowers, over wintered well, large flowers size, large flowers stand out, looks to be growing well color of white has slight yellow ting, low vigor but consistent plants, large showy white/purple flowers, nice flower size, ones that do have flowers are very nice, strong plants, nice white color with purple center, large flower head.
Viola x wittrockiana	Inspire DeluXXe® White Violet Wing	Benary Plus		[1] Unique Flower Color, [1] Vibrant Flower Color, [2] Few Flowers, [2] Unique Colors, [3] Vigorous Plant, [4] Low Vigor, [4] Uniform, [5] Many Flowers, [5] Non-Uniform	2.62	Didn't perform as well, flower pattern seems to vary but is very interesting with varying border colors, good flower color, some reverting, small plants, a few dead plants, large flowers, moderate flowering, nice flowers with different sized plants, non-uniform, about half of plants declining, some winter kill, some dead most good/nice, few dead.
Viola x wittrockiana	Inspire DeluXXe® Wine & Roses Mix	Benary Plus		[1] Few Flowers, [1] Unique Flower Color, [1] Vibrant Flower Color, [2] Color Does Not Match Name, [3] Many Flowers, [6] Low Vigor, [9] Non-Uniform	2.15	Eight plants dead, faded flower color, could be hardier, a few colors seem to do a lot better than others, lots of death, color doesn't seems very "wine and roses" to me, not a good mix for the name, good colors in the mix just too high of losses, many dead, more than half plants declining, only red and purple pansies look good, okay mix, only 50% look showy, various plant sizes and flower sizes, wider plants than others, white doesn't progress as fast as others

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Overall Rating and Comments by Evaluators on Evaluation Day

Genus	Species	Company	New	Evaluator Comments*	Rating	Additional Comments on 4.27.22***
Viola x wittrockiana	Inspire DeluXXe® Yellow	Benary Plus		[1] Vigorous Plant, [3] Uniform, [3] Vibrant Flower Color, [5] Many Flowers, [5] Non-Uniform, [7] Low Vigor	2.31	Decent survival but flowers not opening very well, flowers are small but there are a decent amount, good flower color but weak and small plants, like whiskers but plants are tiny and blooms inconsistent, lots of variation in health, nice yellow flower, love the whiskers, non-uniform, with many bright yellow flowers, spent flowers remaining, purpling underleaves, smaller flower size, small growth habit non consistent growth flowers are bunched, some winter damage
Viola x wittrockiana	Inspire DeluXXe® Yellow Blotch	Benary Plus		[1] Few Flowers, [1] Unique Colors, [2] Uniform, [2] Unique Flower Color, [2] Vigorous Plant, [3] Unique Flower, [4] Vibrant Flower Color, [5] Low Vigor, [5] Many Flowers, [8] Non-Uniform	2.46	Burgundy foliage exhibited, good color on small plants not uniform, large blotch in flower, large flower size with a few plants not surviving, mainly dark black center with yellow edge surrounding, moderate flowering, large blooms, small plants, winter damage, strong plants but a few dead, large flowers, variation in health, really nice unique flower pattern.

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