

Colorado State University

2009 Perennial Flower Trial

Performance Report



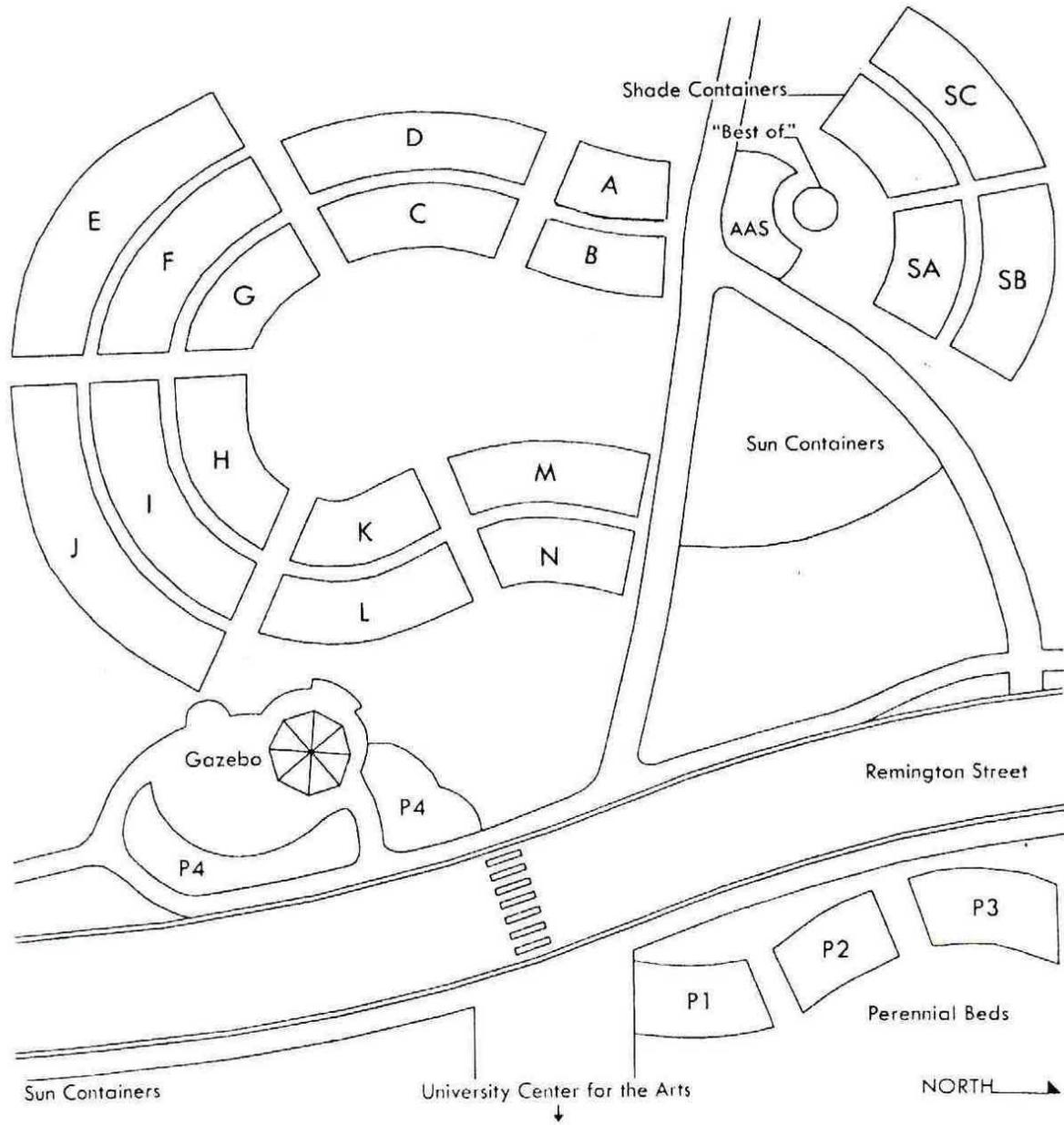
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GARDEN MAP



- Note: The Perennial Trials are part of the Annual Flower Trial Garden program and are located directly across the street in front of the new Center for the Arts.

Colorado State University

2009 Perennial Trial Garden

Performance Report

Dr. James E. Klett, David Staats and Danielle Goris*

Introduction

The W. D. Holley Plant Environmental Research Center (PERC) on the Colorado State University campus has been in operation for 37 years. Dr. James E. Klett is the Director of PERC and the faculty coordinator for the Annual and Perennial Flower Trial Gardens. In 2000, the trial garden was moved from its site at PERC to the park located on Remington and Lake Streets. The relocation of the garden to this more spacious and visible site furthered its mission by more effectively extending education, research and outreach to students, home gardeners, Master Gardeners, community members and Green Industry personnel. In 2007, the Perennial Trials were created in response to increased interest in new perennial cultivars. The Perennial Trials are located directly across the street to the east from the Annual Trial Garden in front of the University Center for the Arts. It is managed by staff from the CSU Department of Horticulture and Landscape Architecture with substantial oversight from the Perennial Trial subcommittee which is part of the Annual Flower Trial Garden committee. Each entry must have been introduced within the past three years and is evaluated for two complete years to determine hardiness and consistent landscape performance.

The outdoor display and test areas at PERC were established to allow students, researchers, industry representatives, homeowners and extension personnel to learn, teach and evaluate horticultural research and demonstration projects in the Rocky Mountain/High Plains region. The gardens are open to students, industry personnel and the public for viewing, gathering ideas about new varieties, studying the different growth habits, tolerances and visual characteristics of many perennial plant cultivars.

The purpose of the trial garden is to evaluate the performance of perennial plant cultivars under our unique Rocky Mountain environmental conditions. Our growing conditions are characterized by high altitude, intense solar radiation, drying winds, severe hailstorms, large fluctuations between day and night temperatures and a season-long need for irrigation. Plants are evaluated for plant vigor, uniformity, floriferousness and tolerance to environmental and biotic stresses. Data (ratings and photos) were collected every two weeks (late April to early October) by the Research Associate. Plants were evaluated once a month by members of the Perennial Trial subcommittee. The Perennial Trial subcommittee met in November to review data and photos to vote on which entries should be designated a "Top Performer".

* Professor and Extension Landscape Horticulture Specialist; Horticulture Research Associate; Landscape Horticulture undergraduate student and 2009 Garden Coordinator

The project is funded, in most part, by the entry fees collected from the plant breeding companies who have chosen to participate in the trials. Additional financial assistance and supplies for the trial operations are donated by a number of sources. These sources include various state horticulture industry associations, foundations, nurseries, greenhouse growers and plant and seed production companies from across the nation. The trial garden at Colorado State University receives no operating dollars directly allocated from state funds. Some operational and staff dollars have come from the Colorado State Agricultural Experiment Station, Extension, the College of Agricultural Sciences and the Department of Horticulture and Landscape Architecture.

Acknowledgements

The Department of Horticulture and Landscape Architecture at Colorado State University would first like to thank the many plant and seed companies who continue to participate in the trials year after year. Without their cooperation and support, the research done at the trial garden would not be possible. This year, the following 14 plant and seed companies participated in the trials, entering 75 varieties of herbaceous perennial plants:

Blooms of Bressingham	Gulley Greenhouse
Center Greenhouse	ItSaul Plants
Conard-Pyle Co.	Jelitto
Creek Hill/Eason Horticultural Resources	Pacific Plug and Liner
Dupont Nursery	Proven Winners
Darwin Perennials	Skagit Gardens
Eason Horticultural Resources	Walters Gardens

We would like to recognize the companies that have donated supplies to the program. Thanks are extended to Green Care Fertilizers, Inc. for donating the water soluble fertilizer used in both the greenhouses and the garden. We would like to thank Sun Gro Horticulture, Inc. for donating the potting media for all the vegetatively propagated plants grown in our greenhouses. Thank you to Organix Supply, Inc. for the quick release fertilizer that was applied to the ground beds prior to planting. And thank you to Scotts, Inc. for donating the slow release fertilizer that was also used in the ground beds.

We would like to thank our Annual Trial Garden Advisory Committee for their constant advice and feedback on the overall operation of the trials. We are fortunate to have such a diverse group of industry leaders that are willing to volunteer their time for the benefit of our program. Our committee is comprised of the following individuals:

Al Gerace (Welby Gardens), Allen Hammer (Dummen USA), Ann Hartman-Mahr, Celia Tannehill, Charlotte Rose (Benary Seed), Dan Gerace (Welby Gardens), Diana Reavis (Eason Horticultural Resources Inc.), Duane Sinning (Benary Seed), Eric Pitzen (Syngenta Flowers), Frank Yantorno (Center Greenhouse, Inc.), Galen Dokter (Syngenta), Gary Douglas (Denver City Park Greenhouse), Gene Pielin (Gulley Greenhouse), Harvey Lang (Syngenta Flowers), Jim Devereux (Michell's), John Williams (Tagawa Greenhouses), Karl Trellinger (Syngenta Flowers), Keith

Stieduhar (City of Westminster), Maria Bumgarner (Denver Botanic Gardens), Mark Sanford (S&G Flowers), Mark Seguin (Syngenta Flowers), Merle Moore (retired, Denver Zoological Gardens), Natalia Hamill (Sakata Seed), Paul Hammer (Dummen USA), Ron Brum (Ball Seed), Ross Shrigley (Denver Botanic Gardens), Stefan Reiner (Selecta First Class), Susan Stauber (Ball Seed), Wayne Pianta (PanAmerican Seed)

And a special thanks to those who served on the Perennial Trial Sub-Committee.

Ann Hartman (Benary Seed), Charlotte Rose (Benary Seed), Celia Tannehill (Benary Seed), Dan Gerace (Welby Gardens), Diana Reavis (Eason Horticultural Resources Inc.), Eric Pitzen (Syngenta Flowers) Galen Dokter (Syngenta), Gary Douglas (Denver City Park Greenhouse), Gene Pielin (Gulley Greenhouse), Jim Devereux (Michell's), Keith Stieduhar (City of Westminster), Maria Bumgarner (Denver Botanic Gardens) Merle Moore (retired, Denver Zoological Gardens), Ross Shrigley (Denver Botanic Gardens) and Wayne Pianta and/or Ron Brum (Pan American Seed).

Perhaps most importantly, much thanks and appreciation goes to the PERC staff at the university that has worked diligently to prepare and maintain the garden. These people include:

Horticulture Research Associate	David Staats
Graduate Trial Garden Staff	Rich Guggenheim
Undergraduate Trial Garden Coordinator	Danielle Goris
Undergraduate Trial Garden Staff	Travis Byers Kara Crist Mike Honerlaw Iris Davidson Tyler Gettel Guy Kuntz Caitlin Nase Alexander Petit Kati Zybko Sara Harris
Undergraduate PERC Staff	Kyle Bainer

For further information on the Annual Flower Trial Garden at Colorado State University, feel free to write, call or e-mail:

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Cultural Data²

Growing

All perennial seeds were sent to Welby Gardens in Denver, CO in January and February 2009 for germination and growing-on in their greenhouses in 3.5" jumbo 4-cell packs. Seed grown varieties were all received on June 9th and planted in the garden shortly thereafter. Vegetative propagated plants did not arrive all at the same time or the same growth stage. See "Comment" section in the following report for specific planting times for 2009 entries. Some vegetative varieties were received as plugs and transplanted into 4.5" pots shortly after arriving at Colorado State University. They were planted into the garden when they filled a 4.5" pot. Some entries arrived in larger containers and were planted directly into the garden.

Fertilization in the Greenhouses

Dosatron[®] fertilizer injectors rated at 7 GPM were used in the greenhouses to fertilize plants each day they were watered, with the exception of being watered every weekend with clear water. Greencare 14-4-14 water soluble fertilizer was used. They received fertilization at a rate of 200ppm.

Chemicals Used in the Greenhouses

Banrot[®] was applied to all plugs immediately after arrival and prior to potting. A drench of 6 oz/gallon was delivered to each variety.

Other chemical treatments that were applied in the greenhouse are as follows:

May 8th: Marathon II was applied for aphids throughout the PERC greenhouse.

Soil Amendments and Preparation

All beds were raked clean of old mulch, planting material and weeds prior to planting. Where necessary, RoundUp[®] was sprayed on weeds.

Planting

Plants are grown in the sun in highly amended beds (see soil analysis table). Beds are fertilized (see fertilization section for details) and roto-tilled prior to planting new varieties.

Bed Spacing

Entries were planted in the ground based on estimated mature plant size and how many were sent. Generally, plants were spaced at one foot centers with two rows of ten plants each. If fewer plants were sent they may have been planted at wider spacing or in just one row instead of two. There were approximately two feet between entries.

² No endorsement of products named is intended nor is criticism of products not mentioned.

Watering

All beds in the garden were zoned according to weekly water-use requirements of 1.0" of water per week. An irrigation audit was conducted at the beginning of the season to determine the irrigation rate per bed. This rate, along with the bed's water-use rating, was used to calculate the total length of time to irrigate each bed. Because of the amount of precipitation in June, the irrigation was sometimes decreased depending on how much water the individual beds needed. In the future, plants will be grouped by irrigation requirements and irrigated at different rates.

Fertilization in the Garden

All beds were top-dressed with Pro Rich[®] Fertilizer (14-5-5) at the rate of 1 pound N per 1000 square feet prior to planting. After planting, Osmocote[®] (14-14-14) was applied to all beds at the rate of 10 grams/sq. ft. (suggested medium rate on label). Greencare water soluble fertilizer (20-10-20) was dispensed through a 100 GPM Dosatron[®] twice a week at a rate of 200 ppm.

Maintenance of Flowers

All flowers were deadheaded in late July. After a killing frost in the fall, plants are cut back to the ground. Plants are watered by hose and sprinkler as needed during dry spells throughout the winter.

Weed Control

RoundUp[®] was applied to all beds prior to tilling in the spring, as well as a spot treatment around the edges of the beds on July 10. Otherwise, all weeding was done by hand throughout the season.

Pest Control in Garden

July 8th – Guara and Oenothera were sprayed for flea beetles with a mixture of Marathon II[®] at 0.5ml/gal and Pyreth-it[®] at 0.5 tsp/gal. There were no other major or minor pest problems.

Disease Control in Garden

Phlox paniculata 'Swizzle' arrived as mature plants but also with a significant outbreak of powdery mildew. Plants were cut back to the ground before planting in the beds and they came back strong with a nice show of flowers, however a second outbreak of powdery mildew occurred again around the end of the summer. *Coreopsis* 'Sundancer' also had a severe case of powdery mildew late in season. Due to the late timing in the season, no chemical controls were used for the two outbreaks of powdery mildew.

Dates of Severe Weather

The month of June had more rain than normal and was the second wettest June ever recorded for Fort Collins. On June 7th, the garden suffered a large hail storm (nickel to quarter size) but all plants survived and recovered a normal appearance later in the season. There were three smaller hail storms after that

as well, all in the month of June. On July 20, a heavy downpour of 1-2 inches of rain fell in less than an hour. August and September weather was fairly typical for this region.

Monthly Temperatures and Precipitation for 2009

Month	Avg. Maximum Temperature	Avg. Minimum Temperature	Precipitation (Inches)
May (27 th – 31 st)	78.1° F	44.8° F	0.08
June	76.2° F	51.3° F	5.03
July	83.5° F	56.6° F	3.95
August	83° F	54.2° F	0.22
September	77° F	48° F	0.67

*Weather information for the Fort Collins area provided by the Colorado State University at: <http://ccc.atmos.colostate.edu/cgi-bin/summary.pl>

Data Collection Methods

Plant Size

Height and width measurements were taken once in September, toward the end of the growing season. This was done to get a feel for the average size of the mature plants and each variety's growth performance. For consistency in bed data collection, the third plant from the front of the left row was measured; however, if that plant was noticeably smaller or larger than average, an alternate plant was selected for measurement. Measurements were taken at the highest and widest parts of the plant, including any flowers.

Soil Samples

Soil samples were taken from individual ground beds on June 15th, July 29th and August 24th and were combined into a single sample per category for each bed.

Soil Analysis

Month	PH	E.C. mmhos/ cm	Lime Estimate	% O.M.	NO₃- N	P	K	Zn	Fe	Mn	Cu	Texture
6/15/09	7.4	0.3	High	21.0	14.4	187	450	27.3	129	15.0	7.1	Loam
7/29/09	7.2	0.4	High	20.3	26.9	202	296	28.6	164	17.6	7.9	Loam
8/24/09	7.0	0.9	High	18.0	134	177	466	26.0	127	6.7	5.7	Loam

Performance Evaluation

Photos and data on plants and flowers were collected on a bi-weekly basis by the Research Associate from late April to early October. Dead plants in the trial were not considered in the bi-weekly evaluation; thus, the ratings given only reflect the live plants. Members from the Perennial Trial subcommittee also came and wrote comments for each plant on at the end of June, July and August. Plants and flowers were rated 1-5 using the following scale:

0 = Dead

1 = Poor: Plants are very sick or dying, no flowering

2 = Below Average: Plants are unattractive in some form, ie – leggy growth habit, chlorotic or low vigor, flowers are extremely few and occurring sporadically

3 = Average: Plant appearance with growth characteristics that would be expected for the time of season; flowers would be few but uniform across the plants

4 = Good: Plants look attractive (foliage, growth habit, etc.); flowers are blooming strong and showy

5 = Excellent: Plants are very healthy and uniform; flowering is impressive

Selection of “Top Performers”

On December 12, 2009 a conference call was convened with CSU staff and the Perennial Trial Garden Subcommittee. Pictures of entries from 2007 and 2008 were posted to the Perennial Trial website for review. Data from the growing season was compiled and emailed to each evaluator prior to the conference call for review. After discussion and looking at the pictures taken throughout the season, each plant was voted on by each member of the committee as to whether it should be awarded the designation as a “Top Performer”.

“Top Performers” for the 2009 Season

Anemone ‘Little Princess’ (Little Princess Windflower) from Blooms of Bressingham

This compact windflower forms a neat mound and offers exceptional late season color. Flowers are a delicate pink blended with white and with prominent gold stamens. Perfect for a lightly shaded border, or even containers. Prefers moist but well drained sites. Planted in 2008.

Aster ‘Vibrant Dome’ (Vibrant Dome New England Aster) from Blooms of Bressingham

When in bloom, this plant is simply covered with vibrant lavender-pink flowers. Deserving of a prominent place in any sunny border, growth habit is round and very uniform when used as a mass display. Mildew and deer resistant, does best in fertile, well drained soil. Average water needs. Planted in 2008.

Euphorbia ‘Bonfire’ (Bonfire Spurge) from Blooms of Bressingham

A very colorful perennial! New growth is a mixture of purple, orange, red, and chartreuse giving a fiery appearance. Leaves quickly turn maroon with undergrowth dark green. Chartreuse flowers and bracts make an impressive combination with the dark foliage. Flowers are self-cleaning and deadheading was never required. Growth habit has excellent uniformity and leaf shape is very attractive. Reliably hardy for this area as opposed to several other Euphorbias entered into the trial. Nice fall color as well. Planted in 2007.

Geranium ‘Blue Sunrise’ (Blue Sunrise Cranesbill) from Blooms of Bressingham

New leaves have hints of orange upon emergence but turn a startling chartreuse color. This dynamic foliage is a great contrast for the blue-violet flowers throughout most of the growing season. Plant vigor is impressive and will need extra space. Planted in 2007.

Heuchera ‘Blackout’ (Blackout Coral Bells) from Center Greenhouse

Impressively black foliage is the main drawing point for this Heuchera. Besides the nice dark color it is also very glossy and does not scorch or fade even in full sun. The flowers are ivory colored and prolific but may obscure the foliage. Tolerates variable conditions well. It will even handle the heat better than many other coral bells. Planted in 2008.

Hibiscus ‘Summer Storm’ (Summer Storm Rose Mallow) from Walter’s Gardens

This vigorous hibiscus variety has beautiful deep purple foliage as it emerges and eventually all but veins and leaf petioles turn green. Leaves are deeply cut and are more interesting than the average Hibiscus. Large dark pink flowers with magenta eyes are prevalent for a long period. It is late to emerge in the spring but worth the wait. Does best with plenty of water. Planted in 2008.

Pennisetum 'Piglet' (Piglet Fountain Grass) from Gulley Greenhouse

This fountain grass is smaller than 'Hameln' yet taller and more floriferous than 'Little Bunny'. It caught people's attention at peak flowering due to small yellow anthers that gave it a golden glow from a distance. Tawny plumes arch above medium green foliage in late summer. Perfect in the foreground of any bed especially when used with other late bloomers. Small enough to be used in containers. Prefers moderate moisture. Deer resistant. Planted in 2008.

Pulmonaria 'Gaelic Spring' (Gaelic Spring Lungwort) from Proven Winners

Mounds of lime green dappled leaves emphasize pink and flowers that emerge from purple buds. Growth habit was very uniform. Perfect for shady borders but did surprisingly well in full sun. Very easy to grow. Average water requirements. Listed as supposedly being deer resistant. Planted in 2007.

Rudbeckia 'Early Bird Gold' (Early Bird Gold Coneflower) from Center Greenhouse

Unlike other black eyed Susans, this variety is day length neutral. This allows it to produce its golden daisy-like flowers earlier in the season and will continue to bloom longer than other Rudbeckias. Flowering was prolific. Plants had excellent winter survival after one winter and were very uniform. Benefits from dead heading. Moderate to low water needs. Planted in 2008.

Salvia 'Pink Friesland' (Pink Friesland Meadow Sage) from Center Greenhouse

This compact, easy to grow salvia produces a profusion of reddish pink flower spikes throughout most of the season, especially if spent blooms are removed. Both flowering and growth habit were very uniform and made a very attractive overall presentation. Attracts bees, butterflies and hummingbirds. Excellent for any sunny border or container. Should be drought tolerant. Planted in 2008.

Saxifraga x arendsii 'Touran Scarlet' (Touran Scarlet Rockfoil) from Gulley Greenhouse

This early bloomer produces red blooms above compact, evergreen foliage. Plants are attractive even without flowers and it is so beautiful with a unique texture that people want to touch it. Perfect for lightly shaded rock gardens but did great in full sun. Average to lower water needs. Supposedly rabbit and deer resistant. Planted in 2008.

Silene 'Rolly's Favorite' (Rolly's Favorite Rose Campion) from Skagit Gardens

Soft pink blooms with white centers form atop upright stems graced with oval, dark green leaves. Flowers are prolific and has a long bloom time. Requires deadheading for best appearance and some secondary blooming. Requires well drain soil. Easy to grow and well behaved. Planted in 2008.

Veronica spicata 'Tickled Pink' (Tickled Pink Spike Speedwell) from Eason Horticultural Resources

This vigorous speedwell produces large showy inflorescences of pink flowers. Selected for longer lasting flowers. Uniform flowering and growth habit made a very impressive overall appearance. Removal of fading spikes will prolong bloom further. Planted in 2008.

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15		Year Planted
Achillea	505	Blooms of Bressingham	Peach, Pink flowers	H: 42	W: 37	2009
	Rating 7/1: 0.00	Comments: not yet planted				
	Rating 8/1: 3.33	Comments: good color, nice habit				
	Rating 9/1: 3.50	Comments: current and faded flowers ok together				
	# Planted: 18					
	% Survived: Not available until 2010					
	Coordinator Comments: Bloomed nice on strong plants the first year.					
Achillea	507	Blooms of Bressingham	Pink flowers	H: 50	W: 45	2009
	Rating 7/1: 0.00	Comments: not yet planted				
	Rating 8/1: 3.33	Comments: good flower color, nice habit				
	Rating 9/1: 2.50	Comments: flowers few and late				
	# Planted: 18					
	% Survived: Not available until 2010					
	Coordinator Comments: Bloomed nice on strong plants the first year.					
Achillea	Tutti Frutti Apricot Delight	Blooms of Bressingham	Pink, Peach flowers	H: 92	W: 53	2007
	Rating 7/1: 4.33	Comments: good color				
	Rating 8/1: 3.75	Comments: weak stems				
	Rating 9/1: 2.88	Comments: faded flowers need deadheading				
	# Planted: 12					
	% Survived: 100					
	Coordinator Comments: Minor lodging on vigorous plant. Impressive flowering and pleasing color even as it faded.					
Achillea	Tutti Frutti Strawberry Delight	Blooms of Bressingham	Pink with yellow centers	H: 98	W: 99	2007
	Rating 7/1: 3.83	Comments: heavy flowers and color, good vigor				
	Rating 8/1: 3.00	Comments: good color impact				
	Rating 9/1: 3.25	Comments: faded flowers, continue to add color				
	# Planted: 24					
	% Survived: 100					
	Coordinator Comments: Vigorous plant but lodged. Impressive flowering and unique flower color even as it faded.					
Achillea	Tutti Frutti Wonderful Wampee	Blooms of Bressingham	White flowers	H: 55	W: 53	2007
	Rating 7/1: 3.67	Comments: lots of color, uniform habit				
	Rating 8/1: 3.00	Comments: good color impact				
	Rating 9/1: 2.75	Comments: faded flowers unattractive, dead head.				
	# Planted: 5					
	% Survived: 100					
	Coordinator Comments: Consistent plant and flowering.					

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Agastache mexicana	Sangria	Jelitto	Purple flowers	H: 156 W: 186	2007
	Rating 7/1: 3.00	Comments: no color			
	Rating 8/1: 3.75	Comments: weak habit			
	Rating 9/1: 3.00	Comments: stems too weak to support large flower heads			
	# Planted: 5				
	% Survived: 20				
	Coordinator Comments: Only one plant survived first winter and it turned into a monster by the end of the season. Good flowering but less than attractive habit and size.				
Ajuga	Dixie Chip	ItSaul Plants	Blue flowers	H: 15 W: 35	2008
	Rating 7/1: 2.00	Comments: unstable variegation, few flowers			
	Rating 8/1: 3.00	Comments: weak stems			
	Rating 9/1: 3.00	Comments:			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Moderate vigor, variegated foliage was unique but not uniform, flowered all summer but not very many at any time.				
Andropogon scoparius	Prairie Blue	Jelitto	Blue flowers	H: 128 W: 86	2007
	Rating 7/1: 3.67	Comments: uniform			
	Rating 8/1: 4.25	Comments: good blue foliage color			
	Rating 9/1: 3.50	Comments:			
	# Planted: 24				
	% Survived: 100				
	Coordinator Comments: Good uniformity and appearance until later in summer when lodging occurred. May do better with less water and no overhead irrigation.				
Anemone	Little Princess	Blooms of Bressingham	Pink flowers	H: 73 W: 63	2008
	Rating 7/1: 3.33	Comments: uniform			
	Rating 8/1: 3.50	Comments:			
	Rating 9/1: 3.50	Comments: vigor, large flowers			
	# Planted: 12				
	% Survived: 100				
	Coordinator Comments: A fall blooming variety that looked great at its peak. Plant vigor was good.				
Antirrhinum	Eternal	Skagit Gardens	Pink flowers with variegated foliage	H: 46 W: 34	2009
	Rating 7/1: 3.33	Comments: good foliage and flower color			
	Rating 8/1: 3.75	Comments: great Flowers			
	Rating 9/1: 3.75	Comments: strong color impact			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments: Bloomed all year with a nice flower color. Foliage was attractive and unique with variegation.				

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Aster	Raspberry Swirl	Creek Hill/Eason Horticultural Resources	Purple flowers	H: 42 W: 42	2009
	Rating 7/1: 0.00	Comments: not yet planted			
	Rating 8/1: 2.33	Comments: No color			
	Rating 9/1: 2.50	Comments: moderate color, many flowers, deep green foliage			
	# Planted: 24				
	% Survived: Not available until 2010				
	Coordinator Comments: First year plants with good performance and abundant flowers. Growth habit was not too uniform but may improve as it establishes.				
Aster	Vibrant Dome	Blooms of Bressingham	Purple flowers	H: 58 W: 63	2008
	Rating 7/1: 3.00	Comments: no color, uniform			
	Rating 8/1: 4.00	Comments: lots of buds, no color			
	Rating 9/1: 3.25	Comments: uniform habit, buds fat, no flowers			
	# Planted: 12				
	% Survived: 100				
	Coordinator Comments: Vigor was good throughout year. Flowered in Fall and kept flowering after 14 degree weather in October. Slightly non-uniform habit but still showy.				
Ceratostigma	My Love	Gulley Greenhouse		H: - W: -	2008
	Rating 7/1: 0.00	Comments: failed to survive winter			
	Rating 8/1: 1.00	Comments:			
	Rating 9/1: 0.75	Comments:			
	# Planted:				
	% Survived: 0				
	Coordinator Comments: All failed to survive winter.				
Coreopsis	Big Bang Galaxy	Skagit Gardens	Yellow flowers	H: 33 W: 43	2009
	Rating 7/1: 2.67	Comments: recently planted			
	Rating 8/1: 3.50	Comments:			
	Rating 9/1: 4.00	Comments: many flowers, nice color, uniform, strong vigor			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments: First year plants but had a good show of flowers by year end.				
Coreopsis	Full Moon	Eason Horticultural Resources	Yellow flowers	H: 76 W: 88	2008
	Rating 7/1: 3.00	Comments: no color			
	Rating 8/1: 2.75	Comments:			
	Rating 9/1: 3.50	Comments: strong color impact			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Extremely vigorous and floriferous. Main drawback was that it lodged.				

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Coreopsis	Golden Dream	Blooms of Bressingham	Yellow flowers	H: 20 W: 27	2009
	Rating 7/1: 0.00	Comments: not yet planted			
	Rating 8/1: 3.00	Comments:			
	Rating 9/1: 3.00	Comments: many flowers, nice color, uniform, strong vigor			
	# Planted: 24				
	% Survived: Not available until 2010				
	Coordinator Comments: Good flowering and plants had good vigor as well. Uniformity on growth habit could improve.				
Coreopsis	Redshift	Eason Horticultural Resources	Yellow flowers with red center	H: 56 W: 90	2008
	Rating 7/1: 3.00	Comments: vigorous, uniform plant, no color			
	Rating 8/1: 2.50	Comments: weak stems			
	Rating 9/1: 3.00	Comments: strong color impact			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Extremely vigorous and floriferous. Main drawback was that it lodged.				
Coreopsis	Rt. 66	Creek Hill/Eason Horticultural Resources	Red with yellow on petal edges	H: 55 W: 47	2009
	Rating 7/1: 0.00	Comments: not yet planted			
	Rating 8/1: 2.33	Comments:			
	Rating 9/1: 3.25	Comments: many flowers, nice color, uniform, strong vigor			
	# Planted: 24				
	% Survived: Not available until 2010				
	Coordinator Comments: First year plants but had a good show of flowers by year end.				
Coreopsis	Sienna Sunset	Skagit Gardens	Peach to orange flowers	H: 39 W: 49	2009
	Rating 7/1: 3.00	Comments: weak habit			
	Rating 8/1: 3.75	Comments:			
	Rating 9/1: 3.50	Comments: many flowers, nice color, uniform, strong vigor			
	# Planted: 12				
	% Survived: Not available until 2010				
	Coordinator Comments: Good flowering for first year but growth habit was not very uniform. Had mild powdery mildew in late September.				
Coreopsis	Sundancer	Dupont Nursery	Orange flowers	H: 53 W: 50	2009
	Rating 7/1: 2.83	Comments: recently planted			
	Rating 8/1: 4.50	Comments:			
	Rating 9/1: 3.50	Comments: many flowers, nice color, uniform, strong vigor			
	# Planted: 24				
	% Survived: Not available until 2010				
	Coordinator Comments: Vigorous plants with prolific flowering but had a lot of powdery mildew by September.				

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Dianthus	Bedazzled	ItSaul Plants	Pink, white flowers	H: 11 W: 26	2008
	Rating 7/1: 1.00	Comments: poor vigor			
	Rating 8/1: 1.50	Comments: weak growth, few flowers			
	Rating 9/1: 2.50	Comments: weak plants			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Okay flowering but plant looked weak early on and gained healthy appearance later in summer.				
Dianthus	Firestar	Center Greenhouse	Red with pale green foliage	H: 14 W: 31	2008
	Rating 7/1: 3.67	Comments: early flowering, compact habit			
	Rating 8/1: 2.50	Comments: no flowers			
	Rating 9/1: 2.25	Comments: compact, uniform petals, no flowers			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Attractive foliage throughout year. Flowering seemed moderate but still showy.				
Dianthus	Scent First Passion	Skagit Gardens	Red with deep green foliage	H: 24 W: 37	2009
	Rating 7/1: 3.17	Comments: grand flower color, uniform			
	Rating 8/1: 3.50	Comments:			
	Rating 9/1: 3.50	Comments: uniform, compact, few flowers			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments: Very impressive flower color. Moderate flowering first year. Plants were uniform and attractive.				
Echinacea	Adam Saul Crazy Pink	ItSaul Plants	Pink, purple flowers with green foliage	H: 46 W: 64	2008
	Rating 7/1: 2.67	Comments: lots of buds			
	Rating 8/1: 3.50	Comments: weak color			
	Rating 9/1: 4.00	Comments: strong color impact			
	# Planted: 20				
	% Survived: 50				
	Coordinator Comments: Substantial winter loss but surviving plants looked great in flower with a unique color and an eye that had a golden sheen to it.				
Echinacea	Mistral	Pacific Plug and Liner	Purple flowers	H: 27 W: 33	2009
	Rating 7/1: 3.00	Comments: uniform			
	Rating 8/1: 3.25	Comments:			
	Rating 9/1: 2.75	Comments:			
	# Planted: 23				
	% Survived: Not available until 2010				
	Coordinator Comments: Growth habit and flowering was variable by end of season.				

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Echinacea purpurea 'Conevin'	Purple Fantasy Coneflower	Conard-Pyle Co.	Purple flowers	H: 44 W: 57	2007
	Rating 7/1: 3.33	Comments: small but colorful flowers			
	Rating 8/1: 4.25	Comments: good color			
	Rating 9/1: 3.25	Comments: no color impact			
	# Planted: 12				
	% Survived: 67				
	Coordinator Comments: Some winter loss but strong flowering with a unique shade of purple.				
Euphorbia	Blackbird	Skagit Gardens	A deep green to maroon foliage	H: 39 W: 30	2009
	Rating 7/1: 3.33	Comments: great color			
	Rating 8/1: 4.67	Comments: great color!			
	Rating 9/1: 3.50	Comments: holds color well			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments: Impressive even when first planted due to attractive leaf color and foliage shape.				
Euphorbia	Bonfire	Blooms of Bressingham	Deep green to maroon foliage with yellow flowers	H: 29 W: 97	2007
	Rating 7/1: 4.67	Comments: uniform ,compact, good foliage color			
	Rating 8/1: 4.75	Comments: good foliage color			
	Rating 9/1: 4.13	Comments:			
	# Planted: 58				
	% Survived: 100				
	Coordinator Comments: Looked great until July and then appeared to lodge or have something run through it. Impressive flowering and foliage.				
Euphorbia	Glacier Blue	Skagit Gardens	Blue, gray variegated foliage with white leaf margins	H: 52 W: 23	2009
	Rating 7/1: 3.67	Comments: good foliage color, uniform			
	Rating 8/1: 3.75	Comments:			
	Rating 9/1: 2.75	Comments: holds color well			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments: Impressive even when first planted due to attractive leaf color and foliage shape. Appeared to attempting to flower by September causing irregular habit.				
Euphorbia	Kalipso	Proven Winners		H: - W: -	2007
	Rating 7/1: 0.00	Comments: poor winter survival			
	Rating 8/1: 0.00	Comments:			
	Rating 9/1: 0.00	Comments:			
	# Planted: 7				
	% Survived: 0				
	Coordinator Comments: Poor winter survival.				

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Gaillardia	Commotion Frenzy	Skagit Gardens	Red with yellow center	H: 49 W: 70	2008
	Rating 7/1: 3.33	Comments: starting to bloom			
	Rating 8/1: 4.25	Comments: strong flowering			
	Rating 9/1: 3.88	Comments:			
	# Planted: 16				
	% Survived: 56				
	Coordinator Comments: Impressive vigor and prolific flowering. Nice growth habit except some lodging.				
Gaillardia	Commotion Tizzy	Skagit Gardens	Red orange flowers	H: 43 W: 54	2008
	Rating 7/1: 3.00	Comments: striking flower and shape			
	Rating 8/1: 3.50	Comments: good flower color			
	Rating 9/1: 3.88	Comments:			
	# Planted: 18				
	% Survived: 88				
	Coordinator Comments: Impressive vigor and prolific flowering. Nice growth habit except some lodging.				
Gaura	Stratosphere Pink Picotee	Proven Winners	Pink flowers	H: 128 W: 99	2007
	Rating 7/1: 0.00	Comments: poor winter survival			
	Rating 8/1: 2.00	Comments:			
	Rating 9/1: 3.00	Comments:			
	# Planted: 7				
	% Survived: 0				
	Coordinator Comments: Poor winter survival.				
Gaura	Stratosphere White	Proven Winners	White w/ Pink tinge	H: 130 W: 110	2007
	Rating 7/1: 3.33	Comments: vigorous plant, uniform, few flowers			
	Rating 8/1: 4.00	Comments: many flowers			
	Rating 9/1: 3.50	Comments:			
	# Planted: 7				
	% Survived: 57				
	Coordinator Comments: Possibly a seedling since it has some pink to it.				
Geranium	Blue Sunrise	Blooms of Bressingham	Light blue flowers with chartreuse foliage	H: 59 W: 106	2007
	Rating 7/1: 3.67	Comments: uniform, starting to flower, compact, nice foliage			
	Rating 8/1: 4.00	Comments: good flower color very vigorous			
	Rating 9/1: 4.00	Comments: yellow foliage color, light green few flowers			
	# Planted: 24				
	% Survived: 100				
	Coordinator Comments: Incredibly vigorous and chartreuse foliage was unique although some visitors thought it was chlorotic. After peak bloom foliage turns ratty and a second set of new growth with larger foliage covered up first set.				

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Gypsophila	Festival Star	Proven Winners	White flowers	H: 109 W: 130	2007
	Rating 7/1: 2.00	Comments: no color			
	Rating 8/1: 3.25	Comments: many flowers			
	Rating 9/1: 3.25	Comments:			
	# Planted: 7				
	% Survived: 88				
	Coordinator Comments: Showy when in bloom with strong flowering.				
Hemerocallis	Fire King	Walter's Garden	Orange flowers	H: 94 W: 61	2008
	Rating 7/1: 3.00	Comments: no buds or color			
	Rating 8/1: 4.00	Comments:			
	Rating 9/1: 3.75	Comments:			
	# Planted: 20				
	% Survived: 100				
	Coordinator Comments: Tall, vigorous plants with attractive flower color and very floriferous.				
Heuchera	Amethyst Myst	Center Greenhouse	Maroon foliage	H: 71 W: 54	2008
	Rating 7/1: 3.67	Comments: foliage fading			
	Rating 8/1: 4.25	Comments:			
	Rating 9/1: 4.25	Comments: foliage holding color, needs deadheading			
	# Planted: 20				
	% Survived: 100				
	Coordinator Comments: Uniform growth habit and good vigor. Many flowers but not very colorful.				
Heuchera	Blackout	Center Greenhouse	Dark green foliage	H: 56 W: 48	2008
	Rating 7/1: 3.67	Comments: good foliage sun tolerant			
	Rating 8/1: 4.38	Comments: great foliage			
	Rating 9/1: 4.13	Comments: foliage holding color			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Dark black glossy foliage remained near perfect throughout year. Flowering was prolific and created an airy, cream colored cloud above the foliage.				
Heuchera	Dolce Crème de Menthe	Proven Winners	N/A	H: 35 W: 48	2007
	Rating 7/1: 2.67	Comments: inconsistent habit			
	Rating 8/1: 2.50	Comments: foliage fading			
	Rating 9/1: 1.75	Comments: foliage fades in sun			
	# Planted: 14				
	% Survived: 83				
	Coordinator Comments: Plants were always an inconsistent size.				

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Heuchera	Encore	Center Greenhouse	Red, fading to brown foliage	H: 99 W: 48	2008
	Rating 7/1: 3.33	Comments: giant foliage burns in the sun			
	Rating 8/1: 4.00	Comments: good foliage color			
	Rating 9/1: 3.50	Comments: foliage fades in sun			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments:	Vigor was good but foliage color seemed to fade which is not that bad for being in full sun. Flowers were not particularly showy.			
Heucherella	Strike it Rich Gold	Proven Winners	Light Yellow	H: 26 W: 65	2007
	Rating 7/1: 0.00	Comments: failed to survive winter			
	Rating 8/1: 0.00	Comments:			
	Rating 9/1: 0.00	Comments:			
	# Planted: 7				
	% Survived: 0				
	Coordinator Comments:	Failed to survive winter.			
Hibiscus	Jazzberry Jam	Walter's Garden	Fuchsia flowers	H: 141 W: 68	2008
	Rating 7/1: 3.33	Comments: uniform			
	Rating 8/1: 4.00	Comments: vigorous, no color			
	Rating 9/1: 3.50	Comments:			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments:	Good plant vigor and flowered well. Flowered a little later than 'Summer Storm' and some were frozen before it was finished.			
Hibiscus	Summer Storm	Walter's Garden	Big red flowers	H: 138 W: 98	2008
	Rating 7/1: 3.33	Comments: good foliage, uniform			
	Rating 8/1: 4.00	Comments: vigorous, no color			
	Rating 9/1: 4.00	Comments:			
	# Planted: 17				
	% Survived: 100				
	Coordinator Comments:	Foliage was attractive dark red as it emerged but faded into mostly a medium green with red veins. Foliage also had an attractive leaf shape. Flowering was strong and earlier than 'Jazzberry Jam'.			
Lavandula	Oxford Gem	Blooms of Bressingham	Lavender flowers	H: 50 W: 40	2009
	Rating 7/1: 0.00	Comments: not yet planted			
	Rating 8/1: 2.33	Comments: small pants, few flowers			
	Rating 9/1: 3.50	Comments: compact, uniform, moderate flowering			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments:	First year and had a few flowers late. Vigor and plant size was okay.			

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Lavendula	587	Blooms of Bressingham	Lavender flowers	H: 48 W: 35	2009
	Rating 7/1: 0.00	Comments: not yet planted			
	Rating 8/1: 2.33	Comments: small plants few flowers			
	Rating 9/1: 3.25	Comments: compact habit, moderate flowering			
	# Planted: 36				
	% Survived: Not available until 2010				
	Coordinator Comments: First year and had a few flowers late. Vigor and plant size was okay.				
Lavendula toechas	Anouk	Darwin Perennials	Lavender flowers	H: 64 W: 63	2009
	Rating 7/1: 3.33	Comments: uniform, good plant vigor, few flowers			
	Rating 8/1: 3.50	Comments: good vigor, uniform, nice habit			
	Rating 9/1: 2.50	Comments: some chlorosis, few flowers			
	# Planted: 10				
	% Survived: Not available until 2010				
	Coordinator Comments: Unique flowers and had good vigor but developed chlorosis on tips in September				
Leonotis	Savannah Sunset	Skagit Gardens	Orange flowers	H: 176 W: 72	2009
	Rating 7/1: 3.33	Comments: moderate vigor, few flowers			
	Rating 8/1: 3.50	Comments: past peak flowers better flowering			
	Rating 9/1: 3.00	Comments: vigor, uniformity, no flowers			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments: Very showy blooms - especially for the first year. Plant was very vigorous.				
Ligularia x farfugium	Last Dance	ItSaul Plants		H: - W: -	2008
	Rating 7/1: 0.00	Comments: almost all failed to survive winter			
	Rating 8/1: 0.00	Comments:			
	Rating 9/1: 0.00	Comments:			
	# Planted: 15				
	% Survived: 20				
	Coordinator Comments: Almost all failed to survive winter and survivors had very poor vigor all summer.				
Oenothera	Caespitosa	Gulley Greenhouse	Pink fading to white flowers	H: 15 W: 35	2008
	Rating 7/1: 3.33	Comments: moderate flowering, uniform, good vigor			
	Rating 8/1: 3.75	Comments: nice Habit			
	Rating 9/1: 3.00	Comments: flowers gone			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Very aggressive plant with rhizomes and many seedlings. Susceptible to flea beetles. Flowering was impressive with pink and white flowers.				

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Oenothera	Shimmer	Skagit Gardens	Yellow flowers	H: 35 W: 38	2009
	Rating 7/1: 3.33	Comments: fine foliage, moderate vigor, few flowers			
	Rating 8/1: 2.50	Comments: low vigor, few flowers			
	Rating 9/1: 3.50	Comments: compact, uniform, moderate flowering			
	# Planted: 18				
	% Survived: Not available until 2010				
	Coordinator Comments:	Established easily first year. Foliage was attractive even after flowering decreased. Flowers made a good show of color at their peak.			
Pennisetum	Piglet	Gulley Greenhouse	Green foliage with white seed plumes	H: 70 W: 67	2008
	Rating 7/1: 3.00	Comments: uniform			
	Rating 8/1: 3.75	Comments:			
	Rating 9/1: 4.25	Comments: uniform habit, many flowers			
	# Planted: 12				
	% Survived: 83				
	Coordinator Comments:	A few plants failed to survive winter or were slow to recover but majority did well and had a golden 'glow' from pollen when at peak bloom for a very unique appearance.			
Penstemon	Prairie Twilite	Blooms of Bressingham	Red flowers	H: 19 W: 41	2009
	Rating 7/1: 2.00	Comments: recently planted			
	Rating 8/1: 2.33	Comments: small plants, no color impact			
	Rating 9/1: 2.00	Comments: small compact flawless plants,			
	# Planted: 22				
	% Survived: Not available until 2010				
	Coordinator Comments:	First year spent getting established and had no problems. A few flowers tried to bloom very late.			
Penstemon	Red Riding Hood	Pacific Plug & Liner	Red flowers	H: 79 W: 62	2009
	Rating 7/1: 4.00	Comments: plants just beginning to show new growth, not uniform, weak color			
	Rating 8/1: 4.75	Comments: strong color impact			
	Rating 9/1: 3.75	Comments: uniform, modest flowering			
	# Planted: 31				
	% Survived: Not available until 2010				
	Coordinator Comments:	First year but made a very impressive display of bright red. Foliage was clean and healthy. Only drawback was some lodging of flower stems.			
Phlox paniculata	Swizzle	Darwin Perennials	light pink with dark pink centers on the flowers	H: 46 W: 41	2009
	Rating 7/1: 2.00	Comments: recently planted			
	Rating 8/1: 2.67	Comments: modest color impact			
	Rating 9/1: 3.50	Comments: strong color impact, powdery mildew			
	# Planted: 14				
	% Survived: Not available until 2010				
	Coordinator Comments:	Arrived with severe powdery mildew and was cut back but it reappeared strong late in season. Vigor was good even after getting cut back and had a showy display of flowers as well.			

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Phygelius	Croftway Snow Queen	Skagit Gardens		H: - W: -	2008
	Rating 7/1: 0.00	Comments: failed to survive winter			
	Rating 8/1: 0.00	Comments:			
	Rating 9/1: 0.00	Comments:			
	# Planted: 18				
	% Survived: 0				
	Coordinator Comments: Failed to survive winter.				
Pulmonaria	Gaelic Magic	Proven Winners	Blue, purple flowers on variegated green foliage	H: 36 W: 72	2007
	Rating 7/1: 2.33	Comments: lacks vigor, not uniform			
	Rating 8/1: 2.33	Comments: no flowers, not very uniform, scraggly			
	Rating 9/1: 1.75	Comments: foliage held up well in sun, no flowers			
	# Planted: 7				
	% Survived: 75				
	Coordinator Comments: Mostly crowded out by nearby geranium but the one on the edge had an attractive display of flowers in Spring and looked reasonable through summer despite being in full sun.				
Pulmonaria	Gaelic Spring	Proven Winners	Blue, purple flowers on variegated green foliage	H: 32 W: 71	2007
	Rating 7/1: 3.33	Comments: uniform habit, early bloomer			
	Rating 8/1: 2.33	Comments: no flowers			
	Rating 9/1: 3.25	Comments: foliage held up well in sun, no flowers			
	# Planted: 7				
	% Survived: 88				
	Coordinator Comments: An attractive display of flowers in Spring and looked reasonable through summer despite being in full sun.				
Rudbeckia	Early Bird Gold	Center Greenhouse	Yellow flowers with black centers	H: 88 W: 72	2008
	Rating 7/1: 3.00	Comments: uniform			
	Rating 8/1: 4.13	Comments:			
	Rating 9/1: 4.50	Comments: vigor, many flowers, strong color			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Bloom was a little uneven but made an impressive long lasting display at its peak. Foliage looked good all season.				
Salvia	Pink Friesland	Center Greenhouse	Purple	H: 57 W: 67	2008
	Rating 7/1: 3.67	Comments: uniform, good color show			
	Rating 8/1: 3.63	Comments: past peak bloom few flowers, foliage fading color			
	Rating 9/1: 2.75	Comments: uniform, past peak flowering			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments: Growth habit and flowering were impressive at its peak with good uniformity and vigor.				

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Salvia	Ultra Violet	Skagit Gardens	Violet	H: 76 W: 67	2009
	Rating 7/1: 3.33	Comments: recently planted			
	Rating 8/1: 3.50	Comments: small flowers, moderate color			
	Rating 9/1: 3.75	Comments: vigorous, uniform, modest color			
	# Planted: 15				
	% Survived: Not available until 2010				
	Coordinator Comments: Good vigor with a showy display of flowers but lodged in second part of the season.				
Salvia gregii	Icing Sugar	Pacific Plug & Liner	pinkish purple	H: 74 W: 52	2009
	Rating 7/1: 3.00	Comments: uniform with large colorful flowers			
	Rating 8/1: 4.00	Comments: medium flowers, modest color			
	Rating 9/1: 3.50	Comments: vigorous, uniform, modest color			
	# Planted: 24				
	% Survived: Not available until 2010				
	Coordinator Comments: Good vigor with a showy display of flowers but lodged in second part of the season.				
Salvia microphylla x muelleri	Dancing Dolls	Conard-Pyle Co.	Cream/Rose bicolor	H: - W: -	2008
	Rating 7/1: 0.00	Comments: failed to survive winter			
	Rating 8/1: 0.00	Comments:			
	Rating 9/1: 0.00	Comments:			
	# Planted: 12				
	% Survived: 0				
	Coordinator Comments: Failed to survive winter.				
Santolina	Lemon Fizz	Pacific Plug & Liner	Chartreuse foliage	H: 30 W: 26	2009
	Rating 7/1: 3.33	Comments: uniform moderate vigor			
	Rating 8/1: 3.50	Comments: good foliage color, some reversion			
	Rating 9/1: 4.00	Comments: compact uniform foliage			
	# Planted: 32				
	% Survived: Not available until 2010				
	Coordinator Comments: Only a couple of flowers first year but foliage and color was very interesting although it had some reversion back to green.				
Saxifraga	Touran Scarlet	Gulley Greenhouse	Green foliage	H: 15 W: 30	2008
	Rating 7/1: 2.00	Comments: compact			
	Rating 8/1: 2.50	Comments: good foliage color nice habit			
	Rating 9/1: 3.75	Comments: compact, bright green foliage, no flowers			
	# Planted: 16				
	% Survived: 93				
	Coordinator Comments: Very interesting plant for texture and shape. Cushion of attractive green foliage also had a nice display of tiny flowers in May.				
Scabiosa ochroleuca	Moon Dance	Jelitto	White	H: 55 W: 90	2007
	Rating 7/1: 2.33	Comments: inconsistent plant vigor, no color			
	Rating 8/1: 3.25	Comments:			
	Rating 9/1: 3.50	Comments: modest color impact			
	# Planted: 24				
	% Survived: 100				
	Coordinator Comments: Prolific flowering by the end of the season with unique appearance.				

*Height and width measurements in centimeters.

Rating Scale: 5=Excellent, 4=Good, 3=Average, 2=Below Average, 1=Poor, 0=Dead/None

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Sedum	Beka	Gulley Greenhouse	Red flowers	H: 27 W: 34	2008
	Rating 7/1: 2.50	Comments: not uniform, lacks vigor			
	Rating 8/1: 2.50	Comments: nice habit			
	Rating 9/1: 2.75	Comments: non uniform, just starting to show color			
	# Planted: 16				
	% Survived: 87				
Coordinator Comments: Poor uniformity and vigor seemed low all season. Flowers did not have much color that would attract attention.					
Sedum	Zi Juan Pink Sundae	Conard-Pyle	Pink flowers	H: 37 W: 120	2009
	Rating 7/1: 2.00	Comments: open habit			
	Rating 8/1: 2.25	Comments:			
	Rating 9/1: 2.25	Comments: open, little color impact			
	# Planted: 6				
	% Survived: Not available until 2010				
Coordinator Comments: Plants arrived mature in large containers and flopped when placed in ground. No other problems occurred.					
Silene	Rollies Favorite	Pacific Plug & Liner	Pink	H: 29 W: 43	2009
	Rating 7/1: 2.33	Comments: moderate plant vigor, no flowers			
	Rating 8/1: 2.50	Comments: no flowers			
	Rating 9/1: 2.50	Comments: uniform, compact foliage			
	# Planted: 17				
	% Survived: Not available until 2010				
Coordinator Comments: First year and established well with healthy foliage. A few flowers tried to bloom late in season.					
Silene	Rolly's Favorite	Skagit Gardens	Pink	H: 20 W: 39	2008
	Rating 7/1: 3.33	Comments: good color, habit, vigor			
	Rating 8/1: 2.50	Comments:			
	Rating 9/1: 2.50	Comments: uniform, compact, vigor, no flowers			
	# Planted: 18				
	% Survived: 100				
Coordinator Comments: Strong show of flowers at peak. Plants were uniform and vigorous.					
Tiarella	Susquehanna	Creek Hill/Eason Horticultural Resources	Green foliage	H: 7 W: 16	2009
	Rating 7/1: 2.00	Comments: not yet planted			
	Rating 8/1: 2.00	Comments: weak plants			
	Rating 9/1: 1.00	Comments: uniform, no flowers			
	# Planted: 20				
	% Survived: Not available until 2010				
Coordinator Comments: Gained size slowly. Probably would do better in more shade. Some leaf scorch was apparent.					

Size, Ratings and Comments for Perennial Trials

Genus	Cultivar	Company	Color	Height and Width on 9/15	Year Planted
Verbena	Radveib Sweet Thing	Conard-Pyle	Purple flowers	H: 32 W: 61	2009
	Rating 7/1: 2.33	Comments: leggy			
	Rating 8/1: 3.25	Comments: good flower color			
	Rating 9/1: 4.00	Comments: uniform habit, good color impact			
	# Planted: 6				
	% Survived: Not available until 2010				
	Coordinator Comments:	Started out from greenhouse rather leggy but once established in ground had good vigor and had a showy display of blooms.			
Veronica	Goldwell	Blooms of Bressingham	Chartreuse foliage	H: 6 W: 53	2007
	Rating 7/1: 3.33	Comments: starting to flower, good vigor			
	Rating 8/1: 3.75	Comments: good color			
	Rating 9/1: 3.00	Comments: unstable variegation			
	# Planted: 12				
	% Survived: 100				
	Coordinator Comments:	Good flowering, great growth habit was very uniform but variegation starting to revert on 20% of plants.			
Veronica spicata	Tickled Pink	Eason Horticultural Resources	Pink flowers	H: 44 W: 7	2008
	Rating 7/1: 4.50	Comments: lots of color, vigor, uniformity			
	Rating 8/1: 3.25	Comments:			
	Rating 9/1: 2.88	Comments: few flowers, faded flowers unattractive, dead head			
	# Planted: 18				
	% Survived: 100				
	Coordinator Comments:	Strong show of flowers at peak. Plants were uniform and vigorous.			
Vinca minor	Gold Mine	ItSaul Plants	Yellow variegated foliage	H: 13 W: 44	2008
	Rating 7/1: 1.33	Comments: lack vigor, poor appearance			
	Rating 8/1: 1.50	Comments:			
	Rating 9/1: 1.50	Comments: weak plant, lacks vigor and uniformity			
	# Planted: 6				
	% Survived: 83				
	Coordinator Comments:	Poor vigor all year and growth habit looked leggy.			

2009 Seasonal Data: Plant and Flower Ratings for Perennial Trials

Genus	Cultivar		4/22	5/6	5/20	6/3	6/27	7/7	7/2	8/10	8/24	9/9	9/2	10/9
Achillea	505	P*						3	3	3	4	5	3	4
		F						0	0	2	4	4	2	4
Achillea	507	P*						3	3	4	5	5	4	3
		F						0	0	1	1	1	1	4
Achillea	Tutti Frutti Apricot Delight	P*	4	5	5	5	4	5	4	4	4	4	4	3
		F	0	0	0	0	2	5	4	2	1	1	1	1
Achillea	Tutti Frutti Strawberry Delight	P*	4	4	5	5	4	3	3	3	3	2	2	2
		F	0	0	0	0	1	5	4	2	1	1	1	1
Achillea	Tutti Frutti Wonderful Wampee	P*	3	4	4	4	4	4	4	4	3	4	3	3
		F	0	0	0	0	4	5	4	2	1	1	1	0
Agastache mexicana	Sangria	P*	1	2	3	5	4	3	3	2	3	2	2	2
		F	0	0	0	0	0	1	2	4	4	4	4	1
Ajuga	Dixie Chip	P*	1	1	3	4	4	3	4	4	4	3	4	3
		F	1	2	1	2	1	2	3	2	1	1	1	1
Andropogon scoparius	Prairie Blue	P*	1	2	3	5	5	5	4	4	5	3	3	2
		F	0	0	0	0	0	0	0	2	0	1	3	2
Anemone	Little Princess	P*	1	1	3	4	5	3	4	4	5	5	4	2
		F	0	0	0	0	0	0	0	0	0	1	4	1
Antirrhinum	Eternal	P*					4	3	4	4	4	4	4	3
		F					3	1	4	4	4	4	3	3
Aster	Raspberry Swirl	P*						3	2	3	3	3	3	3
		F						0	0	0	0	4	5	2
Aster	Vibrant Dome	P*	2	3	3	3	5	3	4	4	5	4	5	5
		F	0	0	0	0	0	0	0	0	0	0	1	5
Cerastostigma	My Love	P*	0	0	0	0	0	0	0	0	0	0	0	0
		F	0	0	0	0	0	0	0	0	0	0	0	0
Coreopsis	Big Bang Galaxy	P*						3	3	3	3	4	4	3
		F						1	2	3	3	4	3	4
Coreopsis	Full Moon	P*	1	2	3	4	5	5	5	3	3	3	3	3
		F	0	0	0	0	0	0	0	4	4	4	4	1
Coreopsis	Golden Dream	P*						3	3	3	3	4	4	3
		F						1	2	3	2	3	3	1
Coreopsis	Redshift	P*	1	2	3	3	5	5	4	3	3	3	3	3
		F	0	0	0	0	0	0	1	5	4	4	4	1

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2009 Seasonal Data: Plant and Flower Ratings for Perennial Trials

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Coreopsis	Rt. 66	P*						3	3	3	5	3	4	4
		F						0	0	2	4	4	4	1
Coreopsis	Sienna Sunset	P*					3	3	3	3	3	3	3	2
		F					1	3	4	4	3	2	3	1
Coreopsis	Sundancer	P*					3	4	4	4	4	3	3	2
		F					1	2	4	4	4	2	3	2
Dianthus	Bedazzled	P*	1	2	3	3	2	2	3	3	4	4	4	3
		F	0	0	3	5	0	1	0	1	1	1	1	1
Dianthus	Firestar	P*	3	4	5	5	5	3	3	3	4	4	4	4
		F	0	0	0	1	5	1	0	0	1	0	1	1
Dianthus	Scent First Passion	P*					3	4	4	4	3	4	3	4
		F					2	4	5	1	1	1	1	2
Echinacea	Adam Saul Crazy Pink	P*	1	2	2	3	4	3	4	4	4	4	3	2
		F	0	0	0	0	0	0	4	5	5	3	2	0
Echinacea	Mistral	P*					4	3	4	4	3	3	3	4
		F					2	3	4	3	2	2	1	1
Echinacea purpurea 'Conevin'	Purple Fantasy Coneflower	P*	2	3	3	4	4	3	4	4	4	3	3	2
		F	0	0	0	0	1	3	4	3	2	1	0	0
Euphorbia	Blackbird	P*					4	4	4	4	5	4	5	5
		F					0	0	0	0	0	0	0	0
Euphorbia	Bonfire	P*	4	5	5	5	5	4	3	3	3	5	4	3
		F	2	5	3	1	0	0	0	0	0	0	0	0
Euphorbia	Glacier Blue	P*					4	4	4	4	5	4	4	4
		F					0	0	0	0	0	0	0	0
Euphorbia	Kalipso	P*	0	0	0	0	0	0	0	0	0	0	0	0
		F	0	0	0	0	0	0	0	0	0	0	0	0
Gaillardia	Commotion Frenzy	P*	1	2	4	5	5	5	5	5	5	4	3	3
		F	0	0	0	0	1	0	0	4	4	3	4	2
Gaillardia	Commotion Tizzy	P*	1	1	2	2	4	4	4	5	5	4	4	4
		F	0	0	0	0	1	2	5	4	4	4	4	2
Gaura	Stratosphere Pink Picotee	P*	1	2	3	3	4	4	4	4	4	5	4	3
		F	0	0	0	0	1	3	4	3	5	5	5	1
Gaura	Stratosphere White	P*	0	0	0	0	0	0	0	0		0	0	5
		F	0	0	0	0	0	0	0	0		0	0	

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2009 Seasonal Data: Plant and Flower Ratings for Perennial Trials

Genus	Cultivar		4/22	5/6	5/20	6/3	6/27	7/7	7/2	8/10	8/24	9/9	9/2	10/9
Geranium	Blue Sunrise	P*	3	4	5	5	5	4	4	4	4	3	2	2
		F	0	0	0	0	1	3	4	4	3	1	1	1
Gypsophila	Festival Star	P*	1	2	3	4	4	3	3	4	4	4	3	3
		F	0	0	0	0	0	0	1	4	3	4	4	3
Hemerocallis	Fire King	P*	3	4	5	5	4	4	4	4	5	4	4	3
		F	0	0	0	0	0	0	0	4	4	3	2	2
Heuchera	Amethyst Myst	P*	3	5	5	5	4	5	4	4	5	5	5	4
		F	0	0	0	1	1	1	1	1	1	1	0	1
Heuchera	Blackout	P*	3	5	5	5	5	4	5	5	5	5	5	4
		F	0	0	0	0	0	1	4	1	3	1	0	0
Heuchera	Dolce Crème de Menthe	P*	2	3	2	2	3	3	3	3	3	3	3	3
		F	0	0	0	0	1	2	3	3	1	2	2	1
Heuchera	Encore	P*	3	5	5	5	3	3	3	3	4	4	3	2
		F	0	0	0	0	0	1	1	1	1	1	0	0
Heucherella	Strike it Rich Gold	P*	0	0	0	0	0	0	0	0	0	0	0	0
		F	0	0	0	0	0	0	0	0	0	0	0	0
Hibiscus	Jazzberry Jam	P*	1	1	2	3	5	4	4	4	5	4	4	3
		F	0	0	0	0	0	0	0	0	0	3	4	1
Hibiscus	Summer Storm	P*	1	1	3	4	4	4	4	4	5	4	4	4
		F	0	0	0	0	0	0	0	0	2	4	3	0
Lavandula	Oxford Gem	P*						3	3	3	5	4	5	4
		F						0	0	1	2	2	3	4
Lavandula	587	P*						3	3	3	4	3	4	3
		F						0	0	1	2	3	3	2
Lavandula toechas	Anouk	P*					4	3	3	3	4	2	2	2
		F					1	1	0	1	2	2	1	0
Leonotis	Savannah Sunset	P*					4	4	4	4	5	4	5	5
		F					1	4	2	1	1	1	4	5
Ligularia x farfugium	Last Dance	P*	0	1	1	1	1	1	1	1	1	1	1	1
		F	0	0	0	0	0	0	0	0	0	0	0	0
Oenothera	Caespitosa	P*	2	3	4	5	5	4	4	4	5	4	4	3
		F	0	0	1	5	3	1	4	1	1	0	0	0
Oenothera	Shimmer	P*					4	4	3	4	5	4	5	5
		F					3	3	2	1	1	3	2	1

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2009 Seasonal Data: Plant and Flower Ratings for Perennial Trials

Genus	Cultivar		4/22	5/6	5/20	6/3	6/27	7/7	7/2	8/10	8/24	9/9	9/2	10/9
Pennisetum	Piglet	P*	1	1	2	3	3	3	4	3	4	5	4	5
		F	0	0	0	0	0	0	0	1	2	5	4	4
Penstemon	Prairie Twilite	P*						3	3	3	5	4	5	4
		F						1	0	1	0	0	1	1
Penstemon	Red Riding Hood	P*					4	4	4	5	5	4	3	4
		F					2	4	2	4	5	3	2	1
Phlox paniculata	Swizzle	P*					1	2	3	3	3	2	2	1
		F					0	1	1	1	3	4	3	3
Phygelius	Croftway Snow Queen	P*	0	0	0	0	0	0	0	0	0	0	0	0
		F	0	0	0	0	0	0	0	0	0	0	0	0
Pulmonaria	Gaelic Magic	P*	3	3	3	3	4	3	3	3	3	3	3	2
		F	3	4	3	2	0	0	0	0	0	0	0	0
Pulmonaria	Gaelic Spring	P*	4	4	5	5	3	2	3	2	3	3	3	2
		F	3	5	4	4	0	0	0	0	0	0	0	0
Rudbeckia	Early Bird Gold	P*	1	2	3	4	5	3	4	4	5	4	5	4
		F	0	0	0	0	0	0	1	3	4	5	5	1
Salvia	Pink Friesland	P*	3	4	5	5	5	4	5	4	5	4	3	2
		F	0	0	1	4	5	4	4	3	3	3	2	1
Salvia	Ultra Violet	P*					3	3	3	4	5	4	4	3
		F					1	1	1	4	4	4	4	1
Salvia gregii	Icing Sugar	P*					3	3	3	4	5	3	3	3
		F					2	1	1	4	3	3	4	2
Salvia microphylla x muelleri	Dancing Dolls	P*	0	0	0	0	0	0	0	0	0	0	0	0
		F	0	0	0	0	0	0	0	0	0	0	0	0
Santolina	Lemon Fizz	P*					3	4	4	4	4	4	4	3
		F					0	0	1	0	0	0	0	0
Saxifraga	Touran Scarlet	P*	4	4	4	4	4	4	4	4	4	5	5	4
		F	3	5	5	5	2	1	0	0	0	0	0	0
Scabiosa ochroleuca	Moon Dance	P*	1	2	3	3	3	3	3	4	5	4	4	3
		F	0	0	0	0	0	1	3	4	4	4	4	3
Sedum	Beka	P*	2	3	3	3	3	2	2	2	3	2	3	2
		F	0	0	0	0	0	0	0	1	0	3	4	4
Sedum	Zi Juan Pink Sundae	P*					3	3	3	3	3	2	3	3
		F					0	0	0	0	0	2	3	2

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2009 Seasonal Data: Plant and Flower Ratings for Perennial Trials

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Silene	Rollies Favorite	P*					4	4	4	4	5	4	4	3
		F					0	0	0	0	1	0	0	1
Silene	Rolly's Favorite	P*	4	5	5	5	4	3	3	4	5	4	5	3
		F	2	5	5	5	4	1	0	1	0	0	0	0
Tiarella	Susquehanna	P*						3	2	2	3	3	3	3
		F						0	0	0	0	0	0	0
Verbena	Radveib Sweet Thing	P*					3	2	3	4	5	4	4	3
		F					2	2	2	4	4	4	3	2
Veronica	Goldwell	P*	2	2	4	4	4	3	3	3	4	3	3	3
		F	0	0	3	4	1	0	0	0	0	0	0	0
Veronica spicata	Tickled Pink	P*	3	4	4	5	5	5	3	4	5	3	3	3
		F	0	0	0	0	5	5	2	1	1	1	1	1
Vinca minor	Gold Mine	P*	1	2	1	1	1	2	2	1	2	2	2	1
		F	0	1	0	0	0	0	0	0	0	0	0	0

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