

Colorado State University
2010 Perennial Flower Trial
Performance Report

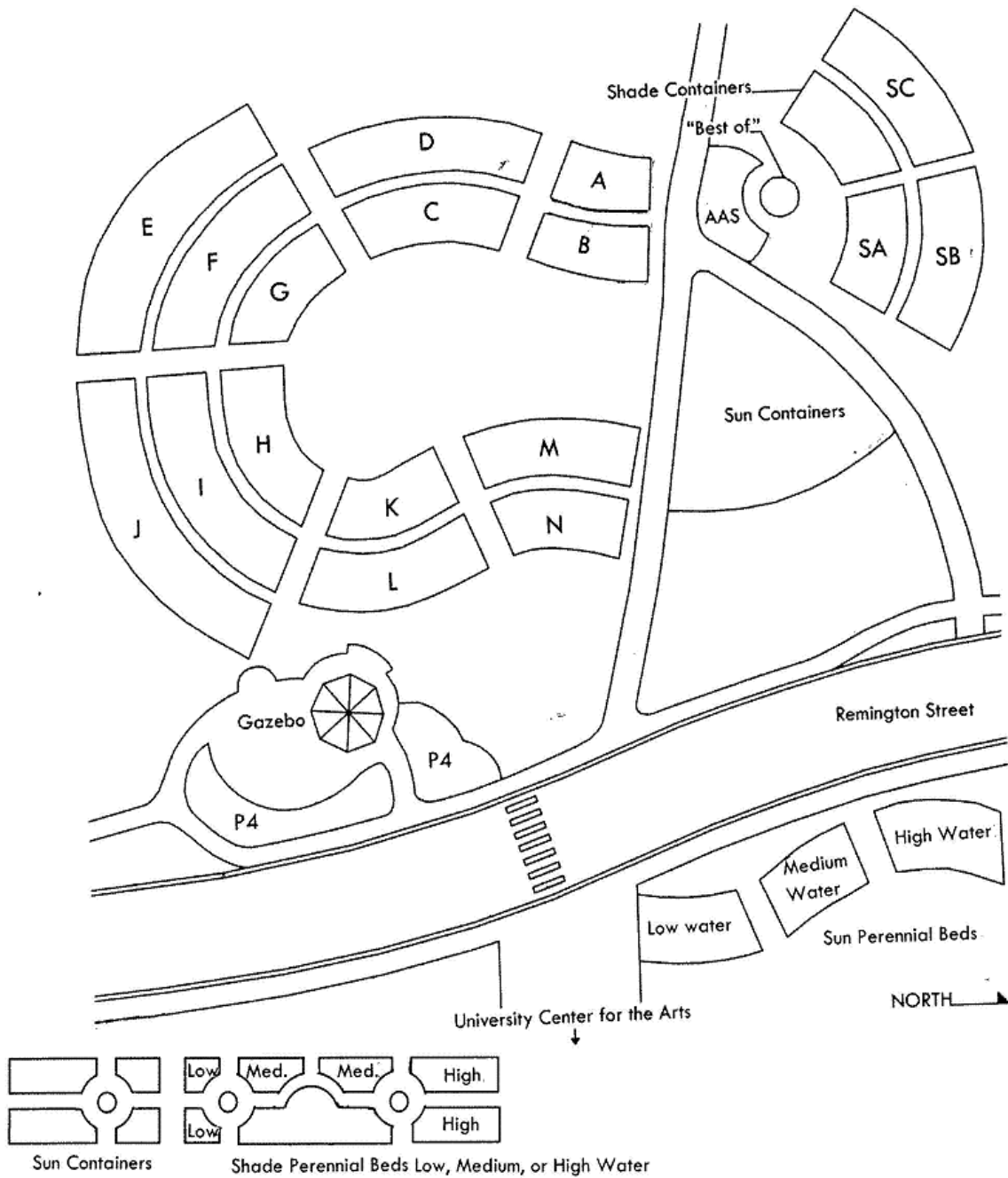
Department of Horticulture and Landscape Architecture
1401 Remington Street
Fort Collins, CO 80523

www.flowertrials.colostate.edu

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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

2010 Perennial Trial Garden

Performance Report

Dr. James E. Klett and David Staats

Introduction

The W. D. Holley Plant Environmental Research Center (PERC) on the Colorado State University campus has been in operation for 38 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 (May to early October). 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".

The project is funded, in most part, by the entry fees collected from the plant breeding companies and perennial propagators 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 16 plant and seed companies participated in the trials, entering 75 varieties of herbaceous perennial plants:

American Takii	ItSaul Plants
Blooms of Bressingham	Jelitto
Center Greenhouse	Kieft-Pro-Seeds
Conard-Pyle Co.	McGregor Plant Sales
Creek Hill	Pacific Plug and Liner
Darwin Perennials	Proven Winners
Eason Horticultural Resources	Skagit Gardens
Gulley Greenhouse	Walters Gardens

We would like to recognize several 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:

Paul Hammer (Dummen USA), Ann Hartman-Mahr, Celia Tannehill, Dan Gerace (Welby Gardens), Al Gerace (Welby Gardens), Diana Reavis (Eason Horticultural Resources Inc.), Duane Sinning (Vegetalis/Floranova), Eric Pitzen (Syngenta Flowers), Frank Yantorno (Center Greenhouse, Inc.), Galen Dokter (Syngenta Flowers), Gary Douglas (Denver City Park Greenhouse), Gene Pielin (Gulley Greenhouse), Harvey Lang (Syngenta Flowers), Jim Devereux (Henry F. 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), Ron Brum (Ball Seed), Ross Shrigley (Denver Botanic Gardens), Stefan Reiner (Selecta First Class), Susan Stauber (Ball Seed), Brian Austin (Dutch Heritage Gardens),

Danielle Goris (Country Fair Garden Center), Danny Brooks (Benary Seed), Luke Ellington (Express Seed Company), Jennifer Sheldon (Color Star Growers), Lida Sladkova (Fides NA) and Wayne Pianta (PanAmerican Seed).

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

Celia Tannehill, 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), Keith Stieduhar (City of Westminster), Maria Bumgarner (Denver Botanic Gardens) Merle Moore (retired, Denver Zoological Gardens), Ross Shrigley (Denver Botanic Gardens) and Susan Stauber (Ball 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 Staff	Shelby Collins Jaclyn Salts Phil Waggoner Daniel Way Guy Kuntz Caitlin Nase
Undergraduate PERC Staff	Moises Haro

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

Dr. James E. Klett
PERC Director and Annual and Perennial Flower Trial Garden Coordinator
Colorado State University
Department of Horticulture and Landscape Architecture
Fort Collins, CO 80523
Office Phone: (970) 491-7179 Mobile Phone: (970) 218-0104
Fax: (970) 491-7745
E-mail: jim.klett@colostate.edu

This report is also available online at:
www.flowertrials.colostate.edu

Cultural Data¹

Growing

All perennial seeds were sent to Welby Gardens in Denver, CO in January and February 2010 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 2010 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 12th: Marathon II[®], Avid[®] and Keyplex 350[®] were applied for aphids.

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 highly amended beds (see soil analysis table). In 2010, new beds were created that provided areas of shade and partial shade due to the proximity of nearby trees. Entries were planted in beds that corresponded with their preferred sun or shade requirements. Some entries were transplanted in 2010 to the beds with less sun if it was determined they might benefit from a shadier location or a more appropriate irrigation regime. Entries that were transplanted were noted as such in the comments section in the following tables. Beds are fertilized (see fertilization section for details) and roto-tilled prior to planting new varieties.

¹ No endorsement of products named is intended nor is criticism of products not mentioned.

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.

Watering

All beds in the garden were zoned according to weekly water-use requirements of 0.5", 1.0" and 1.5" of water per week. Plants were placed in beds that matched their relative water needs. 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 variable precipitation and the need to establish newly planted varieties, the irrigation was sometimes adjusted as needed to make sure plants were not stressed.

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 150 ppm.

Maintenance of Flowers

All flowers were deadheaded in late June and again 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 June 29 and July 23. Otherwise, all weeding was done by hand throughout the season.

Pest Control in Garden

July 26th – *Oenothera* were sprayed for flea beetles with a mixture of Marathon II[®] at 0.5 ml/gallon and Pyreth-It[®] at 0.5 tsp/gallon.

Disease Control in Garden

Powdery mildew was a problem on several varieties late in the summer and it was noted in the comment section of the following tables. The *Alcea* entries had a serious problem with rust which greatly affected their appearance. No chemical control was used since it was important to evaluate the entries in garden conditions typically found in this region.

Entries That Failed to Overwinter

There are a couple of entries that had extreme winter losses but if any plants emerged in the Spring it was included in the data even if it died out later. Some entries that were planted in 2009 failed to survive the winter of 2009/2010 and are listed here instead of in the following tables. The entries from 2009 that failed to survive the winter are: *Coreopsis* 'Golden Dream', *Coreopsis* 'Sun Dancer', *Euphorbia* 'Glacier Blue', *Lavandula* '587', *Lavandula toechas* 'Anouk', *Leonotis* 'Savannah Sunset', *Salvia* 'Ultra Violet', *Salvia greggi* 'Icing Sugar', *Santolina* 'Lemon Fizz' and *Verbena* 'Radveib Sweet Thing'.

Dates of Severe Weather

The weather has been fairly typical for Colorado but a little drier than normal in July thru September. There was no significant incidence of severe weather in the 2010 growing season.

Monthly Temperatures and Precipitation for Summer 2010

Month	Avg. Maximum Temperature	Avg. Minimum Temperature	Precipitation (Inches)
May	67.7° F	42.2° F	2.13
June	81.7° F	54.7° F	1.96
July	88.3° F	58.1° F	1.26
August	87.0° F	58.0° F	1.23
September	81.9° F	47.7° F	0.06
October	67.8° F	40.3° F	0.87

*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 28th, July 23rd and August 26th and were combined into a single sample per category for each bed.

Soil Analysis

Month	PH	E.C. mmhos/ cm	Lime Estimate	% O.M.	NO ₃ - N	P	K	Zn	Fe	Mn	Cu	Texture
Sun 6/28/10	7.0	0.6	Very High	21.7	29.8	93.6	355	23.8	129	8.6	4.8	Loam
Sun 7/23/10	6.9	1.3	Very High	12.3	174	74.8	481	19.8	119	5.4	6.0	Loam
Sun 8/23/10	6.8	1.0	High	21.3	206	209	407	29.9	139	9.0	5.1	Loam
Shade 6/28/10	7.3	0.5	Very High	23.4	13.8	111	740	31.4	114	13.0	10.0	Loam
Shade 7/23/10	7.4	0.6	Very High	23.3	32.2	81.0	815	33.0	101	7.2	7.7	Loam
Shade 8/23/10	7.2	0.9	Very High	23.3	137	221	821	29.1	112	13.6	9.8	Loam

Performance Evaluation

Photos and data on plants and flowers were collected on a bi-weekly basis from May 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, August and September. 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, i.e. – 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 November 29, 2010 a conference call was convened with CSU staff and the Perennial Trial Garden Subcommittee. Pictures of entries from 2008 and 2009 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 2010 Season

Anemone ‘Little Princess’ – from Blooms of Bressingham

Large pink and white flowers develop from low growing, compact foliage. This variety performs best in full sun and blooms later in the summer. Planted in 2008.

Hemerocallis ‘Fire King’ - from Walter’s Gardens

This variety had exceptional vigor and strong blooming. Sturdy stalks supported vibrant red-orange blooms to create a spectacular show. Planted in 2008.

Hibiscus ‘Jazzberry Jam’ – from Walter’s Gardens

The vigorous habit of this plant prevailed in both sun and shade trial locations. Attractive, large blooms emerged slightly later in the season than ‘Summer Storm’. Planted in 2008.

Hibiscus ‘Summer Storm’ – from Walters Gardens

A standout variety with attractive dissected foliage emerging dark purple and then maturing to green. This vigorous plant also exhibited good flowering in both sun and shade trials. Planted in 2008.

Echinacea ‘Mistral’ – from Pacific Plug and Liner

This floriferous, compact coneflower is a sport of the very popular 'Kim's Knee High'. Growth habit and flowering is very uniform. Its unique flowers open bright pink but mature to an antique shade and lasted for a long season of bloom. Planted in 2009.

Penstemon ‘Prairie Twilight’ – from Blooms of Bressingham

Strong burgundy stems support lasting tubular lavender flowers with shades of white that contrast excellently with dark green foliage. It made an impressive display of flowers while growing in a low water area. Planted in 2009.

Penstemon ‘Red Riding Hood’ – from Pacific Plug and Liner

This variety had prolific flowering that was a dazzling display of red tubular flowers on long stems. This impressive variety looked good early in the season and the plants had a vigorous and uniform growth habit. Planted in 2009.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Achillea	505	Blooms of Bressingham	Peach, pink	H: 76 W: 90	2009
	Rating 6/1: 4	Comments: Starting to flower			
	Rating 7/1: 3.3	Comments: Getting tall, lots of color, some color, plants are falling open, lodging but nice color			
	Rating 8/1: 2.2	Comments: Past its prime, needs to be cut back, lodging, full color but flattened by rain			
	Rating 9/1: 2.9	Comments: New foliage coming up and reblooming, some color, old flowers lodging			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Plants had severe lodging. Flowers were attractive.				
Achillea	507	Blooms of Bressingham	Pink, cream	H: 70 W: 90	2009
	Rating 6/1: 5	Comments: Almost in full flower, very uniform			
	Rating 7/1: 3	Comments: Floppy, some color, plants are falling open, lodging but nice color			
	Rating 8/1: 2	Comments: Past its prime, needs to be cut back, lodging, full color but flattened by rain			
	Rating 9/1: 2.9	Comments: New foliage coming up and reblooming, some color, old flowers lodging			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Plants had severe lodging. Flowers were attractive.				
Achillea millefolium	Summer Berries	American Takii	Dark rose, salmon, yellow	H: 66 W: 89	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no color, small plants at present			
	Rating 8/1: 3.6	Comments: Not blooming evenly but interesting, nice flower color blend, even growth, decent 1st year color, some color			
	Rating 9/1: 3	Comments: Lodging everywhere, blooming, some color, old flowers lodging			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Blooms had a good mix of color. Plants had good vigor but had a problem with lodging.				
Ajuga	Dixie Chip	ItSaul Plants	Blue	H: 14 W: 47	2008
	Rating 6/1: 3	Comments: Variable, some variegation			
	Rating 7/1: 2.5	Comments: Foliage turned green instead of variegated, good plant but no color			
	Rating 8/1: 2.3	Comments: Almost all green foliage, no flowers, nice mat forming, no significant color, good plant, no color			
	Rating 9/1: 3.7	Comments: Mostly green, no variegation, has buds			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Most plants reverted back to solid green. Blooming was not very impressive but always seemed to have at least a token flower.				
Alcea rosea annua	Spring Celebrities™ Carmine-Rose	American Takii	Dark pink/rose	H: 61 W: 54	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Has buds			
	Rating 8/1: 2.4	Comments: Has potential, rust is starting to show, low, compact, attractive color, leaves always cover flowers, some color, some necrosis			
	Rating 9/1: 2	Comments: Blooming but has significant rust, some color, significant rust			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Appeared to have a severe disease problem besides rust that resulted in significant wilting and dieback for almost the entire summer. Flowers were attractive but somewhat hidden by foliage.				
Alcea rosea annua	Spring Celebrities™ Lemon	American Takii	Light yellow	H: 35 W: 30	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no color			
	Rating 8/1: 2.1	Comments: Single stems, dying, inconsistent, nice flower color, few flowers, has buds, many appear dying, some dying, few flowers			
	Rating 9/1: 3	Comments: Rust present but foliage is better than 'Carmine-Rose', some color, rust			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Appeared to have a severe disease problem besides rust that resulted in significant wilting and dieback for almost the entire summer. Flowers were attractive but somewhat hidden by foliage.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Anemone	Little Princess	Blooms of Bressingham	Lavendar/pink/white	H: 49 W: 69	2008
	Rating 6/1: 3	Comments: Slow to recover from winter or transplant			
	Rating 7/1: 3	Comments: Good plants, no color			
	Rating 8/1: 2.4	Comments: Uniform, budding, good green foliage color, good foliage, compact, vigor, no flowers, good plant but no flowers yet			
	Rating 9/1: 4	Comments: Uniform bud and bloom, some color			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Looked better last year in full sun. Plants in 2009 had more vigor and stunning flowers compared to moderate flowering in 2010.				
Antirrhinum	Eternal	Skagit Gardens	n/a	H: 0 W: 0	2009
	Rating 6/1: 2	Comments: Only one plant survived, slow to start			
	Rating 7/1: 0	Comments: dead			
	Rating 8/1: 0	Comments: Dead			
	Rating 9/1:	Comments: Dead			
	# Planted: 18	% Survived: 0			
	Coordinator Comments: Only one tiny plant emerged after winter and it eventually died by 7/12.				
Aquilegia	Winky™ Double Rose-White	Kieft Pro Seeds	n/a	H: 42 W: 54	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no blooms			
	Rating 8/1: 2.8	Comments: Uniform growth habit, great foliage, vigorous, no flowers, good plant, no color			
	Rating 9/1: 4	Comments: Good plants, no color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Virtually no flowers first year but plants were very strong and uniform. Some powdery mildew was a problem late in season.				
Aquilegia	Winky™ Early Sky Blue	Kieft Pro Seeds	Blue	H: 40 W: 60	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no blooms			
	Rating 8/1: 2.6	Comments: Uniform growth habit, great foliage, no flowers, vigorous, good plant, no color			
	Rating 9/1: 4	Comments: Some color but very scarce			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Virtually no flowers first year but plants were very strong and uniform. Some powdery mildew was a problem late in season. One plant died from unknown cause during summer.				
Aster	Raspberry Swirl	Creek Hill/Eason Horticultural Resources	Purple/red	H: 100 W: 64	2009
	Rating 6/1: 3	Comments: Not in flower, yellow leaf margins			
	Rating 7/1: 3.7	Comments: Good plant, no color, vigorous plant, no blooms			
	Rating 8/1: 3.2	Comments: Big, vigorous plants, mildew present, budded, uniform, no blooms, good plant, no color yet			
	Rating 9/1: 2.7	Comments: Mildew taking over this plant otherwise would be great, has buds and a lot of powdery mildew			
	# Planted: 24	% Survived: 100			
	Coordinator Comments: Growth habit was fairly open and not very uniform. Plant was susceptible to severe powdery mildew which led to poor flowering. Plants had good vigor for the first part of the summer.				
Aster	Vibrant Dome	Blooms of Bressingham	Purple/pink	H: 65 W: 71	2008
	Rating 6/1: 3	Comments: Premium quality flowers normally not present			
	Rating 7/1: 4	Comments: Wow!, very uniform, no flowers at this point, good plants, no color, uniform			
	Rating 8/1: 3.5	Comments: Very uniform, dark green, wondering when will it bloom, compact, vigorous, uniform habit, no flowers, good plant, no color yet			
	Rating 9/1: 4.2	Comments: Rating might go higher if color was present, has many buds			
	# Planted: 12	% Survived: 100			
	Coordinator Comments: Impressive in almost every way. It would be nice if it flowered a little earlier to avoid frost. It was a near perfect row of flowers in the Fall. Good vigor and uniformity made it fairly attractive even when it wasn't in flower.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Buddleia	Buzz™ Blue Violet	Pacific Plug and Liner	Dark violet	H: 90 W: 66	2010
	Rating 6/1: 3	Comments: Some color, earliest flowering			
	Rating 7/1: 3	Comments: Almost prostrate, some color			
	Rating 8/1: 4.5	Comments: Compact, uniform, very nice, good flower production, full color, multiple blooms			
	Rating 9/1: 3.7	Comments: Very uniform, needs deadheading, full color			
	# Planted: 5	% Survived: Not available until 2011			
	Coordinator Comments: Nice flower color and strong performance in garden. Uniform and compact growth habit.				
Buddleia	Buzz™ Ivory	Pacific Plug and Liner	Ivory	H: 95 W: 95	2010
	Rating 6/1: 3	Comments: With bud, last to flower, upright			
	Rating 7/1: 4	Comments: Very nice, fullest of Buddleia, some color, nice color			
	Rating 8/1: 4.4	Comments: Good but not as uniform as others in 'Buzz' series, very compact, good flower production, full color, uniform, multiple blooms			
	Rating 9/1: 3.5	Comments: Good plant, brown flower heads detract, full color			
	# Planted: 10	% Survived: Not available until 2011			
	Coordinator Comments: Nice flower color, good vigor on plants but slightly non-uniform.				
Buddleia	Buzz™ Magenta	Pacific Plug and Liner	Magenta	H: 90 W: 134	2010
	Rating 6/1: 3	Comments: Some color, newly planted			
	Rating 7/1: 4	Comments: A little taller than others in Buzz series, with buds, nicest of series, nice flower color			
	Rating 8/1: 4.7	Comments: Uniform, taller, good color, compact, good flower production, vigorous, showy, lots of color			
	Rating 9/1: 4.4	Comments: Taller plants and less color, full color, excellent contrast			
	# Planted: 10	% Survived: Not available until 2011			
	Coordinator Comments: Flower color was great and had a good blooming for a long period. Growth habit is more dwarf than most Buddleias although this one had a little legginess to it.				
Buddleia	Buzz™ Pink Purple	Pacific Plug and Liner	Lavendar	H: 86 W: 109	2010
	Rating 6/1: 3	Comments: Newly planted, better habit than 'Magenta', some color			
	Rating 7/1: 3.3	Comments: Some color			
	Rating 8/1: 4.3	Comments: A little too up and down, good dark color, compact, good flower production, uniform, vigorous, large flowers, showy and lots of color			
	Rating 9/1: 4	Comments: Growth habit is a little up and down, good flower color, full color			
	# Planted: 10	% Survived: Not available until 2011			
	Coordinator Comments: Flower color was great and had a good blooming for a long period. Growth habit is more dwarf than most Buddleias.				
Buddleia	Buzz™ Violet	Pacific Plug and Liner	Violet	H: 95 W: 95	2010
	Rating 6/1: 3	Comments: Some color			
	Rating 7/1: 3.8	Comments: Good uniformity, some flowering, vibrant flower color			
	Rating 8/1: 4.1	Comments: Mix of colors, only slightly darker than the blue, very compact, nice size plants, lots of flowers, full color, uniform, multiple blooms			
	Rating 9/1: 3.8	Comments: Mix of colors but nice			
	# Planted: 10	% Survived: Not available until 2011			
	Coordinator Comments: Healthy plants but growth habits were not uniform. Flowers were attractive but had some fading.				
Campanula	Blue Rivulet	Blooms of Bressingham	Blue	H: 12 W: 28	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 2	Comments: Good plant, no color, small plants			
	Rating 8/1: 3.2	Comments: Good amount of color, uniform, 1st year, compact, small plants/low vigor			
	Rating 9/1: 2.7	Comments: Small plants, still showing color, good plants, no color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Four plants died from unknown cause during summer. Remaining plants looked healthy but small. Flowering was okay for first year but not very inspiring.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Coreopsis	Big Bang™ Cosmic Eye	Skagit Gardens	Yellow, dark magenta	H: 37 W: 51	2010
	Rating 6/1: 4	Comments: Yellowing foliage, very bright yellow flower with inner red ring			
	Rating 7/1: 3.1	Comments: Interesting flower, not uniform, some color, many flowers, blooms not open			
	Rating 8/1: 3.8	Comments: Half blooming, open habit, unique color combination, vigorous, good 1st year color, nice flower color			
	Rating 9/1: 3	Comments: Some flowers, not much foliage, some color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Flowers had attractive eye and made a nice show of color. Plants had good vigor.				
Coreopsis	Crème Caramel™	Conard-Pyle Co.	Dark Salmon	H: 29 W: 62	2010
	Rating 6/1: 3	Comments: Very "rangy" appearance			
	Rating 7/1: 3	Comments: Some color, nice color			
	Rating 8/1: 2.7	Comments: Sienna color, open and floppy, uneven, nice color, decent 1st year color			
	Rating 9/1: 2.9	Comments: Not very uniform, little color, some color, mostly past flowers			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Plants had acceptable vigor and growth habit. Flowering was moderate but flower color was unique.				
Coreopsis	Rt. 66	Creek Hill/Eason Horticultural Resources	Magenta, yellow	H: 56 W: 61	2009
	Rating 6/1: 4	Comments: Few dead plants			
	Rating 7/1: 4.1	Comments: Tall, very uniform, loaded with buds, full color, vigorous plants			
	Rating 8/1: 3.7	Comments: Big burly flowers not as good as 'Big Bang Cosmic Eye', uneven, different coloration, some color, could use some deadheading			
	Rating 9/1: 4.7	Comments: Big, burly, tall, some color, mostly past flowers			
	# Planted: 20	% Survived: 95			
	Coordinator Comments: Plants were vigorous but had some lodging. One plant died from unknown cause during summer. Flowers were showy with attractive shading and numerous blooms.				
Coreopsis	Sienna Sunset	Skagit Gardens	Peach, orange	H: 25 W: 41	2009
	Rating 6/1: 3	Comments: Just starting to grow from winter			
	Rating 7/1: 3	Comments: Okay, some flowering, nice flower color			
	Rating 8/1: 3.2	Comments: Plants are sparse with few blooms, uneven, nice sunset color, pleasant color, some color			
	Rating 9/1: 3	Comments: Small plants, few flowers, some color, mostly past flowers			
	# Planted: 18	% Survived: 83			
	Coordinator Comments: Unique flower color was very attractive. One plant died from unknown cause during summer. Most plants were healthy but only okay for uniformity.				
Coreopsis	Sweet Marmalade	Blooms of Bressingham	Apricot, yellow	H: 28 W: 40	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Has buds			
	Rating 8/1: 3.9	Comments: Very uniform, good flowering, bright yellow, compact, vigorous, some color, uniform, vigorous			
	Rating 9/1: 3.1	Comments: Uniform, good foliage, few flowers, some color, mostly past flowers			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Attractive and unusual flower color. Abundant flowering during peak. Plants were healthy and fairly uniform.				
Dianthus	Bedazzled	ItSaul Plants	White, dark pink	H: 8 W: 33	2008
	Rating 6/1: 3	Comments: Some winter stress is evident			
	Rating 7/1: 2	Comments: Weak plants, no color, low vigor			
	Rating 8/1: 1.5	Comments: Very low growing, no color, lack of vigor, uniform habit, small flowers, has buds			
	Rating 9/1: 2.5	Comments: Good plant, no color			
	# Planted: 18	% Survived: 50			
	Coordinator Comments: Flowering was fairly weak and was probably related to poor plant vigor. One plant died during summer from unknown causes. Vigor was poor in 2009 but looked to be improving somewhat in 2010.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Dianthus	Firestar	Center Greenhouse	Red	H: 13 W: 39	2008
	Rating 6/1: 5	Comments: Nice flower contrast with gray foliage			
	Rating 7/1: 3.1	Comments: Very nice, bloomed out but good foliage, good plant but no color, uniform			
	Rating 8/1: 2.7	Comments: Uniform, out of bloom, good foliage, compact, few flowers, has buds, nice, unique mounding growth habit			
	Rating 9/1: 3.2	Comments: Attractive foliage with low growing habit, good plant, no color			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Flowering was good and plants had attractive growth habit even when flowers were absent. Kept interest in November with gray foliage resembling star bursts and a neatly mounded habit.				
Dianthus	Scent First Passion	Skagit Gardens	Red	H: 52 W: 31	2009
	Rating 6/1: 4	Comments: Some color, old flowers present			
	Rating 7/1: 3.5	Comments: Uniform, strong plant, 50% in bloom, some color, nice flower color			
	Rating 8/1: 2.3	Comments: Uniform, compact, large flowers, few flowers, some color			
	Rating 9/1: 2.2	Comments: Okay but not great, few flowers, has buds			
	# Planted: 16	% Survived: 100			
	Coordinator Comments: Very attractive at peak bloom. Plants had good vigor and uniformity but not as compact and attractive as 'Firestar'.				
Echinacea	Mistral	Pacific Plug and Liner	Purple/pink	H: 38 W: 38	2009
	Rating 6/1: 3	Comments: With bud, compact variety			
	Rating 7/1: 3.5	Comments: Very dwarf, bud and bloom are stocky, has buds			
	Rating 8/1: 4.6	Comments: 13"-15" tall and covered in color - looks great, adorable, compact, many flowers, uniform, peak bloom, full color, very compact, many blooms			
	Rating 9/1: 4	Comments: Very uniform, blooms fading, full color			
	# Planted: 21	% Survived: 100			
	Coordinator Comments: Impressive flowering and long bloom time. Flowers came out an attractive bright pink and matured into an attractive "dusty/antique" pink. Plants were very uniform and dwarf. One plant had double white flowers.				
Echinacea	Panther Pink	Conard-Pyle Co.	Pink/purple	H: 62 W: 43	2010
	Rating 6/1: 4	Comments: Full color, early flowering, 18" tall			
	Rating 7/1: 3.9	Comments: Full bloom is early, not bad, full color, prolific blooms			
	Rating 8/1: 3.2	Comments: Interesting blend of pink and copper, muddy color, good flower production, uniform habit, nice color, full color but just starting to go past			
	Rating 9/1: 3.9	Comments: Still making new color, full color			
	# Planted: 22	% Survived: Not available until 2011			
	Coordinator Comments: Good flower color on a compact plant made a very attractive display for a long period.				
Echinacea purpurea	Amado	American Takii	White	H: 77 W: 48	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Young plant			
	Rating 8/1: 2.1	Comments: Tall, has a few unruly blooms, late, crowded out, has buds			
	Rating 9/1: 3.8	Comments: Nice white petals with very orange cone, full color			
	# Planted: 22	% Survived: Not available until 2011			
	Coordinator Comments: Blooms were a nice white color and quite showy. Plants were healthy but had an irregular growth habit.				
Echinacea purpurea	Bravado	American Takii	Rose/purple	H: 91 W: 74	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Young plant			
	Rating 8/1: 2.1	Comments: Tall, has a few unruly blooms, inconsistent, few flowers, has buds			
	Rating 9/1: 3.7	Comments: Tall, not too uniform, good color, full color			
	# Planted: 22	% Survived: Not available until 2011			
	Coordinator Comments: Growth habit was irregular but plants were healthy. Flowers were large and showy but blooming was not uniform on all plants.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Euphorbia	Blackbird	Skagit Gardens	Dark green/black foliage	H: 57 W: 45	2009
	Rating 6/1: 3	Comments: Only one plant survived, slow to start			
	Rating 7/1: 3	Comments: Only one plant, nice foliage			
	Rating 8/1: 1.8	Comments: Only one plant, nice foliage, no flowers, shaded by nearby Hibiscus, has buds			
	Rating 9/1: 4	Comments: Premium quality flowers normally not present			
	# Planted: 18	% Survived: 5			
	Coordinator Comments: Only 1 survived winter. Surviving plant foliage is not as dark in 2010 compared to 2009 but may have been due to transplant to a partial shade location in 2010.				
Euphorbia	Ruby Glow	Skagit Gardens	Dark red/green foliage	H: 35 W: 47	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no flowers			
	Rating 8/1: 3.1	Comments: Good dark foliage, looks fresh, how hardy?, uniform, vigorous, no flowers, good plant			
	Rating 9/1: 3.7	Comments: Nothing that great, good dark color, premium quality flowers normally not present			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: An attractive foliage plant even late in November. Foliage is attractive both in color and shape. Plants were very uniform. Might not be cold hardy but would be attractive as an annual.				
Euphorbia amygdaloides	Ascot Rainbow	Skagit Gardens	Green/blue, cream, red foliage	H: 35 W: 39	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 4	Comments: Good plant, no flowers, nice foliage			
	Rating 8/1: 3.6	Comments: Looks great, hint of pink at tips, how hardy?, vigorous, uniform, attractive variegated foliage, nice color, unique, good plant, no flowers			
	Rating 9/1: 4.1	Comments: Very uniform, variegation is nice, premium quality flowers normally not present			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: A stunning foliage plant even late in November. Foliage is attractive both in color and shape. Plants were very uniform. Might not be cold hardy but would be attractive as an annual.				
Hebe hybrida	Raspberry Ripple	McGregor Plant Sales	Rose/pink, white	H: 25 W: 32	2010
	Rating 6/1: 3	Comments: Newly planted, some color			
	Rating 7/1: 3	Comments: In bud stage			
	Rating 8/1: 2.7	Comments: Good compact growth habit, no flowers, good plant, no color			
	Rating 9/1: 4	Comments: Very uniform, some flowers, has buds			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Foliage is very attractive and plant has a nice compact habit. Flowers are attractive but very limited in first year.				
Hebe hybrida	Strawberries and Cream	McGregor Plant Sales	Pink/white	H: 19 W: 26	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no flowers			
	Rating 8/1: 2.9	Comments: Just planted, uniform, just beginning to bloom, compact, has buds			
	Rating 9/1: 3.5	Comments: Reverse side of leaves is interesting, uniform, some flowers, has buds			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Foliage is very attractive and plant has a nice compact habit. Individual flowers are attractive but very few in first year.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Helenium	Double Trouble	McGregor Plant Sales	Yellow	H: 45 W: 62	2010
	Rating 6/1: 3	Comments: Aphids are bad			
	Rating 7/1: 3	Comments: Some form a tall stalk, has buds, growth habit is reverting back on some			
	Rating 8/1: 3.4	Comments: Rouges (tall among short plants), if uniform grade would be higher, very compact, nice flowers, decent 1st year color, some color			
	Rating 9/1: 2.9	Comments: Up and down growth habit, bright color, full color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Plants had severe differences in growth habit although most had a nice compact shape. Flowers were bright and showy with double petals.				
Helenium	Ruby Tuesday	McGregor Plant Sales	Dark magenta	H: 32 W: 27	2010
	Rating 6/1: 3	Comments: With buds, yellow and ruby plants			
	Rating 7/1: 3	Comments: Has buds, yellow flowers are mixed in, small plants			
	Rating 8/1: 2.5	Comments: Not uniform, just blooming, inconsistent, some healthy plants, some color but only yellow is flowering			
	Rating 9/1: 3	Comments: Up and down growth habit, not uniform, some color			
	# Planted: 4*	% Survived: Not available until 2011			
	Coordinator Comments: Slow to establish, only 4 of 24 plants were 'Ruby Tuesday' and others (20) appear to be 'Double Trouble'. Flowering and growth habit wasn't very uniform on the 4 'Ruby Tuesday' plants. Flowers had a nice dark color.				
Helleborus	Gold Collection™ Cinnamon Snow	Skagit Gardens	n/a	H: 33 W: 47	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no flowers, more vigor than 'Pink Frost'			
	Rating 8/1: 3.0	Comments: More vigor than 'Pink Frost', uniform growth habit, great foliage, vigorous, occasional flower buds, larger plants than 'Pink Frost'			
	Rating 9/1: 4	Comments: Large plants, uniform, there seem to be a few flowers, has buds			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Virtually no flowers first year. Lush dark green foliage and much more vigor than 'Gold Collection Pink Frost'. Plants were very uniform.				
Helleborus	Gold Collection™ Pink Frost	Skagit Gardens	n/a	H: 20 W: 34	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no color			
	Rating 8/1: 2.9	Comments: Uniform growth habit, no flowers, has buds			
	Rating 9/1: 3	Comments: Smaller plants, good plants, no color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Virtually no flowers first year. Attractive green foliage but less vigor than 'Gold Collection Cinnamon Snow'. Plants were very uniform.				
Hemerocallis	Double Pardon Me	Conard-Pyle Co.	Deep red/magenta	H: 40 W: 51	2010
	Rating 6/1: 4	Comments: Just starting to flower			
	Rating 7/1: 3	Comments: Has buds			
	Rating 8/1: 1.9	Comments: Uniform, out of bloom, small, some yellow leaves, good plant, no color			
	Rating 9/1: 3	Comments: Small plants, some new color may still come, good plants, no color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Flowering was fairly sparse the first year but blooms had a very attractive coloring to the petals. Plants seemed small but healthy.				
Hemerocallis	Fire King	Walter's Gardens	Orange/red	H: 67 W: 120	2008
	Rating 6/1: 4	Comments: Interveinal leaf scorch, no flower stems			
	Rating 7/1: 4	Comments: Good plant, no color, not blooming yet			
	Rating 8/1: 4.5	Comments: Spectacular, good foliage, striking blooms, strong, vigorous, gorgeous color, full color			
	Rating 9/1: 3.6	Comments: Large leaves, no color, good plants, no color			
	# Planted: 20	% Survived: 100			
	Coordinator Comments: Plant were vigorous. Blooms were a vibrant reddish orange and were showy at their peak.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Heuchera	Amethyst Myst	Center Greenhouse	Burgundy, silver foliage	H: 28 W: 54	2008
	Rating 6/1: 4	Comments: Some color			
	Rating 7/1: 4	Comments: Uniform but unspectacular, has buds			
	Rating 8/1: 3.8	Comments: Good veining and color, great robust foliage, compact, vigorous, few flowers, premium quality flowers normally not present			
	Rating 9/1: 4	Comments: Good leaf color, large plants, premium quality flowers normally not present			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Plants had a good growth habit and were uniform. Foliage had an attractive color all season.				
Heuchera	Blackout	Center Greenhouse	Dark green/black foliage	H: 34 W: 53	2008
	Rating 6/1: 4	Comments: Premium quality flowers normally not present			
	Rating 7/1: 4.6	Comments: Love the glossy foliage, some flowers, nice leaf color			
	Rating 8/1: 4.0	Comments: Even old blooms fit in, good, great robust foliage, compact, vigorous, no blooms, full color, attractive foliage			
	Rating 9/1: 4	Comments: Somewhat open growth habit, tall, full color			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Great foliage with contrasting small white flowers towering above the foliage although the main feature is the glossy black leaves. Looked best in full sun in 2009 before being moved to shade in 2010.				
Heuchera	Encore	Center Greenhouse	Red, purple foliage	H: 21 W: 47	2008
	Rating 6/1: 4	Comments: Not in flower			
	Rating 7/1: 3	Comments: Weak, has buds, nice leaf color			
	Rating 8/1: 3.2	Comments: Uneven mix of foliage colors, not as robust, compact, uniform, very few flowers, some color			
	Rating 9/1: 3.7	Comments: Its "okay", premium quality flowers normally not present			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Foliage was an attractive shading of orange/red/yellow early in summer. It matured to a more green/purple/silver. Plants were vigorous and uniform.				
Heuchera villosa	Brownie	McGregor Plant Sales	Chocolate/green foliage	H: 23 W: 47	2010
	Rating 6/1: 3	Comments: Newly planted, nice dark foliage			
	Rating 7/1: 3	Comments: Good plant, no color			
	Rating 8/1: 3.5	Comments: Uniform, filling in, great robust foliage, compact, vigorous, attractive foliage, no flowers, premium quality flowers normally not present			
	Rating 9/1: 3.7	Comments: Uniform, good plant, no color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Plants had a good growth habit and were uniform. Foliage color wasn't particularly exciting.				
Heuchera villosa	Kassandra	McGregor Plant Sales	Lime green, orange/red foliage	H: 19 W: 41	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plants, no color			
	Rating 8/1: 3.8	Comments: Good contrast, uniform, great color, compact, very attractive foliage, no flowers, premium quality flowers normally not present, love the foliage, no blooms			
	Rating 9/1: 4	Comments: Uniform, green-brown, premium quality flowers normally not present			
	# Planted: 15	% Survived: Not available until 2011			
	Coordinator Comments: Leaf color was an attractive lime color with reddish orange emerging foliage. Plants were vigorous and uniform.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Hibiscus	Jazzberry Jam (shade)	Walter's Gardens	Dark pink	H: 115 W: 120	2008
	Rating 6/1: 3	Comments: Variable habit			
	Rating 7/1: 3	Comments: Good plant, no flowers			
	Rating 8/1: 3.0	Comments: Open habit but good color, vigorous, some color, just starting to flower,			
	Rating 9/1: 3.5	Comments: Open growth habit, full color			
	# Planted: 6	% Survived: 100			
	Coordinator Comments: Plants had good vigor throughout season. Blooms were attractive and large. Flowered later than 'Summer Storm'.				
Hibiscus	Jazzberry Jam (sun)	Walter's Gardens	Dark Pink	H: 115 W: 109	2008
	Rating 6/1: 3	Comments: Not uniform			
	Rating 7/1: 4	Comments: Good plant, no color, no blooms yet			
	Rating 8/1: 3.2	Comments: 4' tall, budded, vigorous, late to flower, has buds, vigorous plant			
	Rating 9/1: 3	Comments: Some color			
	# Planted: 8	% Survived: 100			
	Coordinator Comments: Plants had good vigor throughout season. Blooms were attractive and large. Flowered later than 'Summer Storm'.				
Hibiscus	Summer Storm (shade)	Walter's Gardens	Dark pink	H: 100 W: 122	2008
	Rating 6/1: 3	Comments: Variable habit			
	Rating 7/1: 3	Comments: Good plant, no flowers, needs more sun			
	Rating 8/1: 4.1	Comments: Looks good, showy, impact, nice foliage, great color, vigorous, huge flowers, some color, good number of large flowers,			
	Rating 9/1: 3.7	Comments: Blooming, lush foliage, has buds			
	# Planted: 8	% Survived: 100			
	Coordinator Comments: Plants had good vigor and attractive foliage. Foliage color was a strong dark purple when it was young and matured to a more green color. Flowering was good.				
Hibiscus	Summer Storm (sun)	Walter's Gardens	Dark pink	H: 110 W: 116	2008
	Rating 6/1: 3	Comments: One plant appears to have a virus			
	Rating 7/1: 4	Comments: Good plant, no color, nice foliage but no blooms			
	Rating 8/1: 4.6	Comments: 3' to 3.5', good color and height, great color, large flowers, showy, large red flowers, nice foliage, some color			
	Rating 9/1: 4	Comments: Open habit, some color			
	# Planted: 8	% Survived: 100			
	Coordinator Comments: Plants had good vigor and attractive foliage. Foliage color was a strong dark purple when it was young and matured to a more green color. Flowering was good.				
Lavandula	Oxford Gem	Blooms of Bressingham	Lavender	H: 45 W: 60	2009
	Rating 6/1: 3	Comments: Two plants are able to evaluate, starting to color, not hardy enough			
	Rating 7/1: 3.3	Comments: Full bloom, very nice, some color			
	Rating 8/1: 3.2	Comments: Plants that survived are full of blooms, nice, vigorous, uniform, past prime, some loss from winter but survivors look good, some color			
	Rating 9/1: 4.1	Comments: Still blooming its head off, full color			
	# Planted: 18	% Survived: 22			
	Coordinator Comments: Only 4 survived winter conditions but managed to look good throughout the season with strong flowering. Plants were healthy and vigorous in appearance.				
Leucanthemum x superbum	Sunny Side Up	McGregor Plant Sales	White/yellow center	H: 45 W: 61	2010
	Rating 6/1: 4	Comments: Newly planted			
	Rating 7/1: 3	Comments: Uniform growth habit, good plant but no color			
	Rating 8/1: 3.6	Comments: Good plants and blooms, going out, compact, uniform, decent 1st year flowering, some plants stunted, some have color			
	Rating 9/1: 4.1	Comments: Keeps on blooming, some color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Looked good overall for the first year. One plant died from unknown cause during summer. Flowers were fairly large with an attractive yellow center.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Lupinus	Manhattan Lights	Blooms of Bressingham	Purple/yellow	H: 30 W: 58	2010
	Rating 6/1: 4	Comments: Unique color			
	Rating 7/1: 3	Comments: Excellent flower color, moderate flowering			
	Rating 8/1: 3.0	Comments: Good color, uniform, nice flowers, vigor, some flowers, has buds, some chewing insect damage			
	Rating 9/1: 3	Comments: Mildew, good plants otherwise			
	# Planted: 13	% Survived: Not available until 2011			
	Coordinator Comments: Was in flower when planted into garden and flower color was very impressive. 1 of 13 appears to not have survived into the Fall. Had a moderate problem with powdery mildew in the Fall.				
Lupinus	Masterpiece	Blooms of Bressingham	Lavender	H: 17 W: 44	2010
	Rating 6/1: 3	Comments: Recently planted			
	Rating 7/1: 2	Comments: Great flower color, moderate flowering			
	Rating 8/1: 2.2	Comments: Spectacular color, uniform, some first year flowers, deep purple, some dead plants			
	Rating 9/1: 2	Comments: Mildew on leaves, no color			
	# Planted: 12	% Survived: Not available until 2011			
	Coordinator Comments: 10 of 16 failed to survive first summer. Had severe powdery mildew and declined. Was in flower when planted into garden and flower color was very impressive.				
Monarda	Fireball	McGregor Plant Sales	Red	H: 43 W: 50	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good plant, no color, no blooms but healthy			
	Rating 8/1: 2.7	Comments: Good dark color, no blooms yet, vigorous, good plant, no color yet			
	Rating 9/1: 3.2	Comments: Good foliage, one flower, good plant, no color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Plants had good vigor but had moderate irregular growth and some powdery mildew late in season. Never really flowered during the first year in the ground.				
Monarda	Pink Supreme	McGregor Plant Sales	Pink	H: 58 W: 108	2010
	Rating 6/1: 3	Comments: Newly planted			
	Rating 7/1: 3	Comments: Good so far, good plants, no color, healthy, no blooms			
	Rating 8/1: 3.1	Comments: Just a bed of green leaves at present, not yet blooming, vigorous, uniform habit, good plant but no color yet			
	Rating 9/1: 3.5	Comments: Some mildew, just starting to bloom, dense foliage, has buds, powdery mildew has started			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Good plant vigor for most of summer but had significant powdery mildew late in season. Never really flowered in first year.				
Oenothera	Shimmer	Skagit Gardens	Light yellow	H: 27 W: 65	2009
	Rating 6/1: 3	Comments: A few have died			
	Rating 7/1: 3.1	Comments: Nice, blooming, some color, prolific blooming			
	Rating 8/1: 1.9	Comments: Coming back, good foliage, few blooms, weedy appearance, some death, healthy plant, no color, "rangy" growth habit, no flowers			
	Rating 9/1: 4	Comments: Good foliage and its blooming some more, some color			
	# Planted: 18	% Survived: 89			
	Coordinator Comments: Flowering was moderate even at its peak but flowers are still showy. Attractive foliage keeps interest throughout the times when flowering was sparse.				
Penstemon	Prairie Twilite	Blooms of Bressingham	Purple/white	H: 51 W: 65	2009
	Rating 6/1: 5	Comments: Excellent color, growth habit is starting to become open			
	Rating 7/1: 4	Comments: Already past bloom, good plant but no color			
	Rating 8/1: 2.7	Comments: Uniform, out of color, flower power, vigorous, good plant, no color and recently cut back			
	Rating 9/1: 3.5	Comments: Uniform, better foliage than 'Red Riding Hood', some color, recently cut back			
	# Planted: 22	% Survived: 100			
	Coordinator Comments: Peak flowering was very impressive. Plants were very strong and had good uniformity.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Penstemon	Red Riding Hood	Pacific Plug and Liner	Bright red	H: 52 W: 50	2009
	Rating 6/1: 5	Comments: Full color			
	Rating 7/1: 4.1	Comments: Impressive, huge bloom, good flower power, full color, some laying down			
	Rating 8/1: 3.2	Comments: Uniform, out of color, past bloom, vigorous, good plant, no color and recently cut back,			
	Rating 9/1: 3.7	Comments: Uniform, some color, recently cut back			
	# Planted: 24	% Survived: 100			
	Coordinator Comments: Plants were vigorous and uniform. Flowering was prolific and a dazzling display of red.				
Phlox paniculata	Classic Cassis	McGregor Plant Sales	Salmon/pink	H: 37 W: 34	2010
	Rating 6/1: 3	Comments: Starting to flower, non-uniform habit			
	Rating 7/1: 2	Comments: Some color, a few plants have died, small plants			
	Rating 8/1: 2.2	Comments: Not branched, 1st year, inconsistent, nice color, low vigor, some color, low vigor			
	Rating 9/1: 3.2	Comments: A mix, some color			
	# Planted: 18	% Survived: Not available until 2011			
	Coordinator Comments: 2 died during summer from unknown cause, plants were non-uniform in size and some lacked vigor. Flower color was attractive and blooms were showy but lacked uniformity due to plant vigor.				
Phlox paniculata	Pina Colada	McGregor Plant Sales	White	H: 33 W: 21	2010
	Rating 6/1: 4	Comments: Flowers almost open, uniform			
	Rating 7/1: 4	Comments: Full color, plants are small but have lots of blooms, uniform			
	Rating 8/1: 3.5	Comments: Very white, blooming, better branching, clean, compact, good flower size, good show for 1st year plant, uniform, lots of blooms, full color			
	Rating 9/1: 3.7	Comments: More uniform, green foliage with white flower has good contrast, some color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Flowers are large with a nice white color. Plants were uniform with good vigor.				
Phlox paniculata	Sherbet Cocktail	McGregor Plant Sales	Pink, white, cream	H: 38 W: 32	2010
	Rating 6/1: 4	Comments: More uniform, just started to bud			
	Rating 7/1: 3	Comments: Some color			
	Rating 8/1: 2.4	Comments: Not very branched, pastel color, unique color, decent flower production, lots of dead flowers, some color			
	Rating 9/1: 3.2	Comments: It will be better next year, some color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Smaller flowers. Nice show of color. Plants seemed to have good vigor.				
Phlox paniculata	Swizzle	Darwin Perennials	Light and dark pink	H: 58 W: 62	2009
	Rating 6/1: 3	Comments: With buds, variable growth			
	Rating 7/1: 4	Comments: Nice light foliage, full bloom, tall, nice color, lots of blooms			
	Rating 8/1: 3.4	Comments: Has good flower power but not much plant, uniform, lots of flowers, past prime, unique color			
	Rating 9/1: 3.2	Comments: Mildew, vigorous, some color, powdery mildew is starting			
	# Planted: 14	% Survived: 86			
	Coordinator Comments: Growth habit was irregular and plants had good vigor although they had some powdery mildew late in season. Flowering was good with a bright bicolor shading on the petals.				
Phygelius	Pheeges™ Lemon Frost	McGregor Plant Sales	Yellow	H: 38 W: 48	2010
	Rating 6/1: 4	Comments: Full color, compact growth habit			
	Rating 7/1: 3	Comments: Full color, nice flower presentation			
	Rating 8/1: 3.5	Comments: Good number of blooms, very green color, blooms are nice, weaker, very compact, good flower production, unique color, many flowers, full color, more compact than 'Passionate Pink'			
	Rating 9/1: 3.7	Comments: Lots of blooms, small plants, full color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Impressive display of flowers from mid-July through September. Blooms were abundant and had an interesting shape. Plants were vigorous and uniform.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Phygelius	Pheeges™ Passionate Pink	McGregor Plant Sales	Dark pink	H: 62 W: 67	2010
	Rating 6/1: 4	Comments: Full color, dark stems, compact			
	Rating 7/1: 3	Comments: Some color			
	Rating 8/1: 4.3	Comments: Nice plants, lots of color, gorgeous, good flower production, vigorous, uniform, showy			
	Rating 9/1: 4.1	Comments: Good color, uniform plants, some color			
	# Planted: 24 % Survived: Not available until 2011	Coordinator Comments: Impressive display of flowers from late July through September. Blooms were abundant and had an interesting shape. Plants were vigorous and uniform.			
Salvia	Pink Friesland	Center Greenhouse	Lavender/pink	H: 49 W: 62	2008
	Rating 6/1: 5	Comments: Full color, very uniform			
	Rating 7/1: 4	Comments: Past bloom, full color with some faded blooms, lots of seed heads			
	Rating 8/1: 3.5	Comments: Uniform, trying to bloom again, past peak flowering, compact, vigorous, not showy, some color			
	Rating 9/1: 3.7	Comments: Full color			
	# Planted: 18 % Survived: 100	Coordinator Comments: Plant growth was strong. Growth habit was very uniform and had controlled vigor. Flowering was impressive at peak and had a second flush later in season. It was a very good looking plant for second year in a row.			
Salvia buchanani	Wendy's Wish	Skagit Gardens	Pink	H: 109 W: 107	2010
	Rating 6/1: 4	Comments: Good contrast, dark stem, mauve calyx, fuchsia flowers			
	Rating 7/1: 4	Comments: Interesting color, full plant, vigorous, some color, unique flower shape, nice color			
	Rating 8/1: 4	Comments: Uniform, showy - but is it hardy?, late flowering, vigorous, lots of blooms, full color			
	Rating 9/1: 4.6	Comments: Huge, a non-stop bloomer, full color, excellent contrast with foliage			
	# Planted: 24 % Survived: Not available until 2011	Coordinator Comments: Fragrant, nice flower color. Performed well all season long. Blooms were very floriferous over a long period. Plant was vigorous with attractive dark green foliage.			
Salvia nemerosa	New Dimension Blue	Kieft Pro Seeds	Blue	H: 28 W: 40	2010
	Rating 6/1: 3	Comments: Newly planted, early flowering			
	Rating 7/1: 3	Comments: Some color, small plants			
	Rating 8/1: 2.8	Comments: Almost out of bloom, fairly uniform, good vigor, multiple blooms, full color			
	Rating 9/1: 2.7	Comments: Floppy, out of color for all practical purposes, some color			
	# Planted: 24 % Survived: Not available until 2011	Coordinator Comments: Plants were healthy all year but had some lodging. One plant died from unknown cause during summer.			
Salvia nemerosa	New Dimension Rose	Kieft Pro Seeds	Rose	H: 31 W: 36	2010
	Rating 6/1: 3	Comments: Newly planted, early flowering			
	Rating 7/1: 2	Comments: Some color, small plants			
	Rating 8/1: 2.2	Comments: Half the size as the 'New Dimension Blue', doesn't match up, past bloom, some color			
	Rating 9/1: 2.6	Comments: Smaller than 'New Dimension Blue', lodging some, some color			
	# Planted: 16 % Survived: Not available until 2011	Coordinator Comments: Plants lacked uniform growth but were healthy. Vandals stole a row of eight plants in mid-summer.			
Saxifraga x arendsii	Touran™ Scarlet	Gulley Greenhouse	Rose	H: 4 W: 28	2008
	Rating 6/1: 3	Comments: Some color, brownish undergrowth			
	Rating 7/1: 2	Comments: Good plants, no color, needs more sun			
	Rating 8/1: 1.5	Comments: Empty areas - appears to be just filling in, has a lot of dieback, lots of brown dead areas in plant			
	Rating 9/1: 2	Comments: Not much left, needs more sun, mostly dead			
	# Planted: 16 % Survived: 16	Coordinator Comments: Looked good early in summer and then went into a steep decline. Appears to have really not adapted to the move to a shadier location in 2010 since it looked great in full sun in 2009.			

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Scabiosa	Blue Note	Kieft Pro Seeds	Blue	H: 30 W: 37	2010
	Rating 6/1: 2	Comments: Newly planted, some flowers			
	Rating 7/1: 3	Comments: Some color, small plants			
	Rating 8/1: 4.4	Comments: Lots of flowers, no stopping in sight, adorable, full color, uniform, multiple blooms			
	Rating 9/1: 4.2	Comments: Smallish plants, at least 50% have color, full color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Plants always had good vigor and great uniformity. Flowering was steady over a long period and uniform amongst all plants. One plant died from unknown cause during summer.				
Sedum	Zi Juan Pink Sundae™	Conard-Pyle Co.	Pink	H: 62 W: 82	2009
	Rating 6/1: 4	Comments: Not in color			
	Rating 7/1: 4.1	Comments: Nice shape, very full, good plant, no color, vigorous and uniform			
	Rating 8/1: 3.2	Comments: 2.5' tall, uniform, loads of buds, very tall, vigorous, late to flower, has buds, uniform and vigorous but no blooms			
	Rating 9/1: 3.5	Comments: Tall, open habit, not yet blooming, some color			
	# Planted: 6	% Survived: 100			
	Coordinator Comments: Plants had good vigor but growth habit lacked uniformity. Seemed to be in bud stage forever and bloom period was very brief and not showy.				
Silene	Rolly's Favorite	Skagit Gardens	Pink	H: 25 W: 62	2008
	Rating 6/1: 4	Comments: Full color, better looking than younger planting			
	Rating 7/1: 3	Comments: With buds, some insect damage on leaves			
	Rating 8/1: 2.7	Comments: Big, lots of blooms but almost done, uniform, compact, nice vigor, some brown on leaves (leaf miner damage), full color			
	Rating 9/1: 2.7	Comments: This group looks eaten by insects, some color			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Looked great early in year with a stunning display of pink. Leaf miners moved in after bloom and made foliage very unattractive although plants outgrew the problem by September.				
Silene	Rolly's Favorite	Pacific Plug and Liner	Pink	H: 25 W: 62	2009
	Rating 6/1: 4	Comments: Full color, some old flowers, uniform			
	Rating 7/1: 3	Comments: Has buds but mostly past flowering, some insect damage on leaves			
	Rating 8/1: 2.3	Comments: Uniform, out of bloom, compact, vigor, good plant but no flowers yet			
	Rating 9/1: 3	Comments: Still looks good, lots of foliage, good plant, flowers past			
	# Planted: 17	% Survived: 100			
	Coordinator Comments: Looked great early in year with a stunning display of pink. Leaf miners moved in after bloom and made foliage very unattractive although plants outgrew the problem by September.				
Tiarella cordifolia	Susquehanna	Creek Hill/Eason Horticultural Resources	White	H: 19 W: 61	2009
	Rating 6/1: 4	Comments: Full color, nice growth habit			
	Rating 7/1: 4	Comments: Some flowers			
	Rating 8/1: 2.5	Comments: Creeping and filling in surrounding area, could be special, uniform habit, a few early buds, has buds			
	Rating 9/1: 4	Comments: Sprawling growth habit, good ground cover, good plant, no color			
	# Planted: 24	% Survived: 100			
	Coordinator Comments: Moved to shade in 2010 and it thrived. Flowers were attractive and had a moderate number of blooms. Plants were vigorous and began covering area by end of season.				
Veronica longifolia	First Love	McGregor Plant Sales	Pink	H: 60 W: 46	2010
	Rating 6/1: 3	Comments: Some color, a little bit "rangy"			
	Rating 7/1: 3	Comments: Sparse but blooming, some color			
	Rating 8/1: 4.2	Comments: Not all that uniform, tons of color!, gorgeous, vigorous, good flower production, full color, good for attracting bees			
	Rating 9/1: 3.7	Comments: Falling over but has good color still, full color			
	# Planted: 24	% Survived: Not available until 2011			
	Coordinator Comments: Plants had good vigor but significant lodging. Flowers were showy with an attractive pink color and long season of bloom.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Size, Hardiness Data and Comments

Genus	Cultivar	Company	Color	Height and Width on 9/20	Year Planted
Veronica spicata	Tickled Pink	Eason Horticultural Resources	Pink	H: 37 W: 81	2008
	Rating 6/1: 4	Comments: With buds, filled in			
	Rating 7/1: 3.3	Comments: A little floppy but has flower power, full color but laying down, nice color, lots of blooms			
	Rating 8/1: 2.7	Comments: Good coverage, few flowers left, floppy, pink, vigorous, not very showy, some color			
	Rating 9/1: 3.2	Comments: Mildew, color is boring, some color, powdery mildew is starting			
	# Planted: 18	% Survived: 100			
	Coordinator Comments: Plants had good vigor although there was significant lodging and some powdery mildew late in season. Flowers were bright and showy.				
Vinca minor	Gold Mine	ItSaul Plants	n/a	H: 0 W: 0	2008
	Rating 6/1: 2	Comments: One plant survived winter			
	Rating 7/1: 1	Comments: Almost dead			
	Rating 8/1: 0.2	Comments:			
	Rating 9/1:	Comments:			
	# Planted: 6	% Survived: 0			
	Coordinator Comments: Attempted move to shadier location in 2010 since it did poorly in full sun during 2009 but it eventually declined and died.				

*Height and width measurements in centimeters.

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

Average ratings based on evaluations by Perennial subcommittee members.

Seasonal Data: Plant and Flower Ratings for Perennial Trials

Genus	Cultivar		5/7	5/19	6/1	6/14	6/28	7/12	7/26	8/9	8/23	9/6	9/20	10/4
Achillea	505	P*	3	4	4	4	5	3	2	1	2	2	2.5	4
		F	0	0	0	0	1	4	5	3	2	1	1	1
Achillea	507	P*	3	4	4	4	5	2	2	1	2	2	2.5	3.5
		F	0	0	1	1	3	4	5	2	2	1	1	1
Achillea millefolium	Summer Berries	P*	NP	NP	NP	1	2	3	3	3	3	3	2.5	3
		F	NP	NP	NP	0	1	1	3	4	3	3	1	1
Ajuga	Dixie Chip	P*	1	1	1	2	2	2	3	1	1	2	2	2.5
		F	1	1	1	0	0	2	1	1	1	0	1	1
Alcea rosea annua	Spring Celebrities™ Carmine-Rose	P*	NP	NP	NP	1	2	3	2	2	1	1	1.5	1
		F	NP	NP	NP	0	0	1	3	3	3	3.5	3	3
Alcea rosea annua	Spring Celebrities™ Lemon	P*	NP	NP	NP	1	2	3	2	1	2	1	2	1.5
		F	NP	NP	NP	0	0	1	0	1	3	4	3	3
Anemone	Little Princess	P*	0	0	1	2	3	3	3	4	4	4	4	4
		F	0	0	0	0	0	0	0	1	1	1	4	4
Antirrhinum	Eternal	P*	1	1	1	1	1	4	0	0	0	0	0	0
		F	0	0	0	0	0	0	0	0	0	0	0	0
Aquilegia	Winky™ Double Rose-White	P*	NP	NP	NP	2	2	2	4	5	4	3.5	4	2
		F	NP	NP	NP	0	0	0	0	1	0	0	0	0
Aquilegia	Winky™ Early Sky Blue	P*	NP	NP	NP	2	2	2	4	4	4	3	4	2.5
		F	NP	NP	NP	0	0	0	0	1	1	2	1.5	1.5
Aster	Raspberry Swirl	P*	0	2	2	3	3	4	5	3	2	1	1	1
		F	0	0	0	0	0	0	0	1	1	2	2.5	2.5
Aster	Vibrant Dome	P*	3	3	3	3	3	4	5	5	5	5	5	5
		F	0	0	0	0	0	0	0	0	0	0	0	4
Buddleia	Buzz™ Blue Violet	P*	NP	NP	2	3	3	3	5	4	4	4.5	5	4.5
		F	NP	NP	1	3	3	3	5	4	4	3	2	2
Buddleia	Buzz™ Ivory	P*	NP	NP	2	3	3	3	5	4	4	4	4	4
		F	NP	NP	1	1	3	3	5	4	4	4	2	2
Buddleia	Buzz™ Magenta	P*	NP	NP	2	3	3	3	5	3.5	3.5	3	3.5	3.5
		F	NP	NP	1	2	3	3	5	4	4	4	3	3
Buddleia	Buzz™ Pink Purple	P*	NP	NP	2	3	3	3	5	4	4	3.5	3.5	4
		F	NP	NP	1	2	3	3	5	4	4	4	3	3
Buddleia	Buzz™ Violet	P*	NP	NP	2	2	3	3	5	4	4	3.5	4	3.5
		F	NP	NP	1	3	3	3	5	4	4	3.5	3	3

*P indicates overall rating on a scale of 0 to 5.

*F indicates flower rating on a scale of 0 to 5.

NP = Not Present/Planted

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

Ratings of 3 and above are considered showy for most landscapes.

Seasonal Data: Plant and Flower Ratings for Perennial Trials

Genus	Cultivar		5/7	5/19	6/1	6/14	6/28	7/12	7/26	8/9	8/23	9/6	9/20	10/4
Campanula	Blue Rivulet	P*		NP	NP	1	1	2	2	4	3	3	4	3
		F		NP	NP	0	0	1	3	4	3	2	2	2
Coreopsis	Big Bang™ Cosmic Eye	P*	NP	NP	2	2	3	3	3	4	3	3	4	3
		F	NP	NP	1	2	1	2	5	4	3	2	2.5	2.5
Coreopsis	Crème Caramel™	P*	NP	NP	2	2	3	3	3	3	3	3	3	3
		F	NP	NP	1	2	2	3	3	3	3	2	1	1
Coreopsis	Rt. 66	P*	0	1	2	2	4	5	5	3	3	3	3	3
		F	0	0	0	0	1	4	5	4	3	2	1	1
Coreopsis	Sienna Sunset	P*	0	0	1	1	2	3	3	3	3	3	3.5	3
		F	0	0	0	0	1	3	5	3	3	2	1	1
Coreopsis	Sweet Marmalade	P*		NP	NP	1	2	2	3	4.5	4	4	4	4
		F		NP	NP	0	0	2	5	4	3	2	1	1
Dianthus	Bedazzled	P*	2	2	2	2	2	3	3	2	2	2.5	3	3
		F	0	0	1	2	2	0	0	1	0	0	1	1
Dianthus	Firestar	P*	2	2	2	3	4	5	5	4	4	4	4	4.5
		F	0	0	1	3	5	0	0	1	1	1	0	0
Dianthus	Scent First Passion	P*	2	3	3	3	3	4	5	3	3	3	3	4
		F	0	1	2	4	4	2	0	1	1	2	1.5	1.5
Echinacea	Mistral	P*	1	1	2	2	3	3	3	4	4	4	4	4
		F	0	0	0	2	2	2	5	5	5	4.5	4	4
Echinacea	Panther Pink	P*	NP	NP	2	2	3	4	4	4	4	4	4	4
		F	NP	NP	2	4	5	5	5	3	4	4	4	4
Echinacea purpurea	Amado	P*	NP	NP	NP	2	2	2	3	4	3	3	3.5	3.5
		F	NP	NP	NP	0	0	0	1	2	3	3	4	4
Echinacea purpurea	Bravado	P*	NP	NP	NP	2	2	2	3	3	3	3	3	2.5
		F	NP	NP	NP	0	0	0	0	1	2	3	4	4
Euphorbia	Blackbird	P*	1	1	1	2	2	4	4	3	4	4	3	4
		F	0	0	0	0	0	0	0	1	0	0	0	0
Euphorbia	Ruby Glow	P*	NP	NP	2	2	3	4	4	4	4	3.5	4.5	4
		F	NP	NP	1	1	1	0	2	1	0	0	0	0
Euphorbia amygdaloides	Ascot Rainbow	P*	NP	NP	2	2	3	4	4	4	4	4.5	5	4.5
		F	NP	NP	0	0	0	0	0	1	0	0	0	0
Hebe hybrida	Raspberry Ripple	P*	NP	NP	2	2	2	2	3	4.5	4.5	5	4.5	5
		F	NP	NP	1	1	0	1	3	1	1	1	1	1

*P indicates overall rating on a scale of 0 to 5.

*F indicates flower rating on a scale of 0 to 5.

NP = Not Present/Planted

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

Ratings of 3 and above are considered showy for most landscapes.

Seasonal Data: Plant and Flower Ratings for Perennial Trials

Genus	Cultivar	5/7	5/19	6/1	6/14	6/28	7/12	7/26	8/9	8/23	9/6	9/20	10/4	
Hebe hybrida	Strawberries and Cream	P*	NP	NP	1	2	2	2	3	4	4	4	4.5	4.5
		F	NP	NP	0	0	0	1	0	1	0	0	0	0
Helenium	Double Trouble	P*	NP	NP	2	2	2	3	3	2	2	2	2.5	2
		F	NP	NP	2	2	2	2	3	4	3	3.5	2.5	2.5
Helenium	Ruby Tuesday	P*	NP	NP	2	2	3	3	4	3	3	2	2	2
		F	NP	NP	1	1	2	2	4	3	2	2	2	2
Helleborus	Gold Collection™ Cinnamon Snow	P*	NP	NP	2	2	2	3	3	4.5	4	4.5	4.5	4.5
		F	NP	NP	0	0	0	0	0	1.5	1	2	1	1
Helleborus	Gold Collection™ Pink Frost	P*	NP	NP	2	2	2	2	3	4.5	4	3.5	4	3.5
		F	NP	NP	0	0	0	0	0	1	0	0	1	1
Hemerocallis	Double Pardon Me	P*	NP	NP	2	2	3	3	3	4	4	4	4	4.5
		F	NP	NP	0	1	2	2	0	1	1	1	2	2
Hemerocallis	Fire King	P*	3	3	3	3	4	5	5	4.5	4	3	3.5	4
		F	0	0	0	0	0	1	3	4.5	3	1	0	0
Heuchera	Amethyst Myst	P*	3	3	3	4	4	5	5	4.5	4	4	4	4
		F	0	0	1	1	1	3	2	1	0	0	0	0
Heuchera	Blackout	P*	3	3	3	4	4	5	5	4.5	4	4	4	4
		F	0	0	0	0	1	5	5	1	0	0	0	0
Heuchera	Encore	P*	2	2	2	3	3	4	4	4	4	3.5	4	3.5
		F	0	0	0	0	1	2	2	1	0	0	0	0
Heuchera villosa	Brownie	P*	NP	NP	2	2	3	3	3	4	4	4	5	4
		F	NP	NP	0	0	0	0	0	1	0	0	0	0
Heuchera villosa	Kassandra	P*	NP	NP	2	2	3	3	3	4	4	4	4.5	4
		F	NP	NP	0	0	0	0	0	1	0	0	0	0
Hibiscus	Jazzberry Jam (shade)	P*	0	0	2	3	3	4	5	3	4	4	4	4
		F	0	0	0	0	0	0	1	1	3	4.5	1	1
Hibiscus	Jazzberry Jam (sun)	P*	0	0	1	2	3	4	4	4	4	4	4	3.5
		F	0	0	0	0	0	0	0	1	3	5	2	2
Hibiscus	Summer Storm (shade)	P*	0	0	2	3	3	4	5	4	4	4	4	4
		F	0	0	0	0	0	0	2	5	3	0	0	0
Hibiscus	Summer Storm (sun)	P*	0	0	1	3	3	4	5	4	4	4.5	4	4
		F	0	0	0	0	0	0	1	4	3	3	1	1
Lavandula	Oxford Gem	P*	1	1	1	2	3	5	4	4	4	4	4	4
		F	0	0	0	0	2	5	5	3	3	3.5	3	3

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Seasonal Data: Plant and Flower Ratings for Perennial Trials

Genus	Cultivar	5/7	5/19	6/1	6/14	6/28	7/12	7/26	8/9	8/23	9/6	9/20	10/4	
Leucanthemum x superbum	Sunny Side Up	P*	NP	NP	2	2	3	4	3	3	3.5	3.5	4	4
		F	NP	NP	0	0	1	1	3	3	3	3.5	1	1
Lupinus	Manhattan Lights	P*		NP	3	3	3	5	5	3.5	3	2.5	2	2
		F		NP	3	3	3	4	1	1.5	0	0	0	0
Lupinus	Masterpiece	P*		NP	3	3	3	3	4	2.5	2	1	1	1
		F		NP	3	1	1	3	3	1	0	0	0	0
Monarda	Fireball	P*	NP	NP	2	2	2	2	3	4	4	4	3	3
		F	NP	NP	0	0	0	0	0	1	1	1	1	1
Monarda	Pink Supreme	P*	NP	NP	2	2	2	3	3	4	3	3	2.5	2.5
		F	NP	NP	0	0	0	0	0	1	1	1	1	1
Oenothera	Shimmer	P*	0	1	2	2	3	4	3	4	4	4	4	4
		F	0	0	0	1	3	3	4	2	3	3	1	1
Penstemon	Prairie Twilite	P*	3	3	3	4	4	5	5	4	4	4	4	4.5
		F	0	0	1	4	4	1	1	2	1	1	0	0
Penstemon	Red Riding Hood	P*	2	2	3	3	4	5	5	4	4	4	4	4
		F	0	0	1	3	5	4	2	2	1	1	0	0
Phlox paniculata	Classic Cassis	P*	NP	NP	2	2	2	3	3	2	2	2	2	1.5
		F	NP	NP	1	2	2	3	3	3	3	3	2	2
Phlox paniculata	Pina Colada	P*	NP	NP	2	2	2	3	3	4	4	4.5	4	4
		F	NP	NP	0	0	3	3	3	4	3	3	3	3
Phlox paniculata	Sherbet Cocktail	P*	NP	NP	2	2	2	3	3	4	3	3	4	3.5
		F	NP	NP	0	0	1	3	3	3	3	2	3	3
Phlox paniculata	Swizzle	P*	2	3	3	3	3	4	4	4	3	3	2	2
		F	0	0	0	0	3	4	5	3.5	3	2	2	2
Phygellus	Pheeges™ Lemon Frost	P*	NP	NP	2	2	3	3	3	4.5	4	4	4.5	4
		F	NP	NP	2	2	1	3	4	4.5	4	4.5	1	1
Phygellus	Pheeges™ Passionate Pink	P*	NP	NP	2	2	3	4	4	4	4	4	5	4
		F	NP	NP	2	2	1	2	3	5	4	4	1	1
Salvia	Pink Friesland	P*	2	2	2	4	4	4	5	5	4	4	3.5	3
		F	0	0	1	3	4	1	1	4	4	4	3	3
Salvia buchanani	Wendy's Wish	P*	NP	NP	2	3	4	4	5	5	5	5	5	5
		F	NP	NP	2	3	3	4	5	5	5	4	3.5	3.5
Salvia nemerosa	New Dimension Blue	P*	NP	NP	NP	2	2	3	3	4	4	4	4	4
		F	NP	NP	NP	1	2	3	5	4	3	2	1	1

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Seasonal Data: Plant and Flower Ratings for Perennial Trials

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Salvia nemerosa	New Dimension Rose	P*	NP	NP	NP	2	2	3	3	3	3	3	3.5	2
		F	NP	NP	NP	1	2	3	5	3	3	2	1	1
Saxifraga x arendsii	Touran™ Scarlet	P*	3	3	3	3	3	3	2	1	1	1	1	1
		F	3	3	3	1	0	0	0	1	0	0	0	0
Scabiosa	Blue Note	P*	NP	NP	NP	2	2	2	3	4	4	5	5	4
		F	NP	NP	NP	2	2	2	5	4	4	4	4	4
Sedum	Zi Juan Pink Sundae™	P*	3	3	3	3	3	4	5	5	4	4	3.5	2.5
		F	0	0	0	0	0	0	0	1	1	2	2	2
Silene	Rolly's Favorite	P*	3	3	4	4	4	3	2	2.5	3	3	3	3.5
		F	3	4	4	3	3	1	2	2	2	2	0	0
Silene	Rolly's Favorite	P*	3	3	4	4	4	3	2	2.5	3	3.5	4	4
		F	3	4	4	3	3	1	0	1	2	1	0	0
Tiarella cordifolia	Susquehanna	P*	3	2	3	3	3	3	4	3	4	4	4	4
		F	2	2	3	3	2	1	1	1	0	0	0	0
Veronica longifolia	First Love	P*	NP	NP	2	2	3	4	3	3	4	4	4	4
		F	NP	NP	1	2	2	3	4	5	4.5	4.5	3	3
Veronica spicata	Tickled Pink	P*	3	3	3	3	4	4	5	4	3	3	3	2
		F	0	0	0	0	2	4	5	2	2	3	2.5	2.5
Vinca minor	Gold Mine	P*	2	1	1	1	1	1	0	0	0	0	0	0
		F	0	0	0	0	0	0	0	0	0	0	0	0

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