



Blooms of Bressingham Plant Evaluations

2009-2010

Center for Urban Horticulture. Seattle, WA USA

An Introduction

Since 1997, the Center for Urban Horticulture (CUH) has been the recipient of plants from one of the most prominent names in the perennial plant industry. Blooms of Bressingham (referred to simply as “BLOOMS”) has been a source of the world’s finest perennial plant introductions for many years. Based in the UK with headquarters in North America, they’ve partnered with gardens all around the United States to evaluate the performance of their plants. Each year at CUH, samples are acquired, grown on and planted out in three island beds just west of Merrill Hall and, in recent years, container displays at Washington Park Arboretum. What looks like an extravagant perennial border is actually a test plot where the performance of each variety is scrutinized. Then recommendations and feedback are given back to BLOOMS .

For the 2010, season, we’ve decided to bring back the evaluation program after a few years hiatus. With the assistance of knowledgeable volunteers, BLOOMS has been consistently getting us new plant materials and we’ve become a showcase garden for both new and older varieties for people to see before they head out to a local nursery and find these varieties for their own landscapes.

With the gardens changing each growing season with new plants and deletion of older varieties that are no longer performing as well as they should (often times being surpassed by improved selections), our maps are updated regularly and are available on our website (URL to come shortly)

The Sites

The Center for Urban Horticulture (CUH)

There are three island beds at the **CUH** composed of a raised planting base fully amended with organic matter and **irrigated by an automatic system** during active growth. It is top-dressed annually with **composted organic mulch that acts as its fertilizer** for the entire year. The soil is an ideal clay loam suitable for most perennial plants. The beds are also in **full direct sun**. Plants are regularly cut back, deadheaded, and groomed as needed. Older specimens are occasionally divided if clumps become overcrowded.

Washington Park Arboretum (WPA)

The **Graham Visitor Center** at Washington Park Arboretum is flanked with hanging custom-made containers that have been utilized to trial and showcase BLOOMS perennials. The plants are in mostly **part shade**, are grown in a well drained potting mix and **irrigated regularly with occasional applications of fertilizer** during the height of the growing season. Plants are allowed to grow and develop naturally with minimal maintenance such as deadheading and grooming.



Beds at CUH bursting in early season bloom.



Containers at WPA in mid-summer

The Evaluation Process:

The Plants are evaluated between a two and three year period (depending on the growth rate of a particular plant). In general most perennials are grown with the mindset of: The 1st year they sleep, 2nd year they creep, and the 3rd, they finally leap.

As the plants get established in the garden, we look for the following and rate each one as:

☐ (4)Excellent ☐ (3)Good ☐ (2)Fair ☐ (1)Poor

Pest/Disease Resistance:

Look for signs of pest damage, diseases, and distorted growth that appears abnormal.

Flower Quality & Quantity:

Observe and look out for unique color, substance, form, and overall arrangement of the inflorescence.

Notice how it holds up to the weather and heavy precipitation.

Are there many flowers present?

Flower bloom time:

Has the plant been in bloom over a long period?

Does it rebloom if plant is cut back?

Foliage and Stem quality:

Is the foliage attractive, healthy and held up well on the plant?

Are the stems strong or does the entire plant require staking?

Is their sign of pests and/or diseases?

Heat tolerance:

Is the plant and it's flowers holding up to the heat?

Does it require supplemental irrigation on top of the regular set regiment

Growth Rate:


(Excellent =Fast --->Looked the same when planted = Poor)

Overall Vigor and Habit:

Is the plant behaved?

How do the plant spread and multiply; are the potentially invasive?

How well do they look in and amongst other plants in the bed?

Achillea 'Peachy Seduction' (2010) Patent Info: PPAF	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Foliage is reliably robust and disease resistant • Columnar habit is remarkably dense, full and sturdy • Excellent flowering uniformity • Long blooming period, mid-June through July • Heat loving - no meltdown • Self-reliant and maintenance free 	<ul style="list-style-type: none"> • Allow to dry between watering • Deadheading enhances appearance and encourages rebloom • May be divided at any time to rejuvenate • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Comments:

- Subtle color to start fading to white, but then aged to an unattractive brown. (CUH/WPA)
- Overall vigorous and maintenance free (CUH)
- Fairly tolerant of the rich organic soil in our beds (CUH)
- Not suitable for container culture (WPA)

Achillea 'Pineapple Mango' (2010) Patent Info: PPAF	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Large flower clusters start out rich pink, maturing to yellow/salmon and finishing pale primrose yellow • Compact, sturdy and full habit • Excellent flowering uniformity • Long blooming period, mid-June through July • Foliage is reliably robust and disease-resistant even in hot, sticky summers • Heat loving - no meltdown • Self-reliant and maintenance free 	<ul style="list-style-type: none"> • Allow to dry between watering • Deadheading enhances appearance and encourages rebloom • May be divided at any time to rejuvenate • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Comments:

- Flower color holds up much better and mixes well with other plants. (CUH/WPA)
- Maintains compact habit when grown in the ground (CUH)
- Not recommended for container culture. (WPA)

Achillea 'Pomegranate' (2010) Patent Info:USPP#20763, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Rich velvety red flowers • Compact, sturdy and full habit • Excellent flowering uniformity • Long blooming period, June through August • Foliage is reliably robust and disease-resistant even in hot, sticky summers • Heat loving - no meltdown • Self-reliant and maintenance free 	<ul style="list-style-type: none"> • Allow to dry between watering • Deadheading enhances appearance and encourages rebloom • May be divided at any time to rejuvenate • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Heat tolerance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Growth Rate:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Comments:

- Opens to an intense deep red, but fades almost instantly in the heat/full sun. (CUH)
- Maintained upright habit in WPA/Containers . (WPA)
- Does not re-bloom as well as other cultivars. (CUH)

Anemone 'Little Princess' (2009) Patent Info: USPP #19760, COPF, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Soft pink, 2½- to 3-inch (6-8 cm) flowers late • Stays low and compact compared to others of its type • Needs no staking, unlike some Japanese Anemone varieties 	<ul style="list-style-type: none"> • Divide or make root cuttings in spring • Some susceptibility to powdery mildew, slugs and nematodes. • Prefers moist, not wet, well-drained fertile soil • Shade, Part Shade

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

WPA/Containers (DID NOT EVALUATE)

Pest/Disease Resistance:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Remains relatively compact
- Stems begin to flop as autumn nears and flowers increase in numbers
- Some scorching of foliage in full sun
- Flowers are somewhat typical of type and not all that exciting.

Aster 'Vibrant Dome' (2009) Patent Info: USPP #19538, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Tough, compact, disease-resistant and heavy-blooming • Hot raspberry-pink starry flowers completely cover foliage • Shorter, more garden-friendly than most of its species • Compact mounds of attractive dark green, lance-shaped foliage • No staking needed • Prefers fertile, well-drained moist soil, but is very adaptable and not fussy 	<ul style="list-style-type: none"> • Divide if desired every third year • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

WPA/Containers (DID NOT EVALUATE)

Pest/Disease Resistance:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- First flowers on second year plants. Plugs slow to start.
- Very late September blooms, but once cold and frost arrived, they were finished.
- Very compact, but also very brittle
- Bases of plants tended to brown out severely.

Centaurea 'Amethyst Dream' (2009) Patent Info: USPP#20781, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Radiant, royal-purple blooms in May are big and showy, 2-1/2" (6cm) in diameter • Softly haired, silver foliage handles heat and drought • Sturdy and resilient • Adapts well to most soil types • Rich, dark flowers contrast beautifully with the lush silver foliage in June and July. 	<ul style="list-style-type: none"> • Allow to dry between watering • Very self reliant and vigorous, sometimes almost too vigorous • Plants will spread strongly, especially in cool climates • Best grown in areas where it can be confined • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower Quality & Quantity:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower bloom time:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

Foliage and Stem quality:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Heat tolerance:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

Growth Rate:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Overall Vigor and Habit:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

WPA/Containers

Pest/Disease Resistance:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower Quality & Quantity:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower bloom time:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Foliage and Stem quality:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Heat tolerance:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Growth Rate:


☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Overall Vigor and Habit:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Comments:

- Plants at WPA/Containers succumbed to the cool summer and had severe powdery mildew. Plants grew poorly, hardly bloomed and were finally removed. (WPA)
- At CUH Grounds, plants fared a little better with many flowers if the plants were cut back after a flush of blooms. Still was unattractive after cutting back. (CUH)
- Floppy habit when in bloom (CUH)

Centaurea 'Amethyst in Snow' (2010) Patent Info: USPP #18284, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Silky white, tubular petals radiate from royal purple centers in mid-May to mid-June • Silvery green foliage forms dense, substantial masses 	<ul style="list-style-type: none"> • Grows best in well-drained, alkaline soil • Remove spent flowers to encourage repeat bloom • Cut back in fall • Water just enough to maintain slightly moist conditions, especially in first year • Divide in fall, or as necessary to control spread • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower Quality & Quantity:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower bloom time:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

Foliage and Stem quality:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Heat tolerance:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

Growth Rate:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Overall Vigor and Habit:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

WPA/Containers

Pest/Disease Resistance:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower Quality & Quantity:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Flower bloom time:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Foliage and Stem quality:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Heat tolerance:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Growth Rate:


☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Overall Vigor and Habit:

☐ Excellent
 ☐ Good
 ☐ Fair
 ☒ Poor

Comments:

- Plants at WPA/Containers succumbed to the cool summer and had severe powdery mildew. Plants grew poorly, hardly bloomed and were finally removed. (WPA)
- At CUH Grounds, plants fared a little better with many flowers if the plants were cut back after a flush of blooms. Looked decent after cutting back. (CUH)
- Floppy habit when in bloom. (CUH)

Coreopsis 'Golden Dream' (2010) Patent Info: USPP #20693, PBR Applied For	Outstanding qualities:	Potential problems:
 <p>Photo courtesy of hortmag.com</p>	<ul style="list-style-type: none"> • Golden-yellow flowers have frilly edges, striated and touched with darker accents • Two-inch blooms peak June to July, with flushes well into September • Makes a great edging or massing plant in the garden and is also useful as an attractive, compact flowering pot plant • Better mildew resistance 	<ul style="list-style-type: none"> • Hardiness undetermined, treat as a tender perennial • Prefers porous, well-drained soil • Allow to dry slightly, but not wilt, between watering • Shear plants for re-flowering • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☐ Fair ☒ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☐ Good ☐ Fair ☒ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Comments:

- Flower color was excellent (WPA)
- The number of live flowers was tiny compared to the number of persistent dead flowers. Old stalks gave the plant a twiggy, hedgehog look. (WPA)
- The plants barely increased in size and were overshadowed by everything around them. (WPA)
- Flops slightly in richer, moist soils. (CUH)
- Did not overwinter (2011)

Dendranthema 'Frosty Igloo' (2009) Patent Info: USPP #20251	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Bloom usually begins in September first year, August in subsequent years • Attractive lobed green leaves form uniform rounded masses without pinching • The Igloo series brings unprecedented uniformity and flower power to the late summer/early fall perennial border 	<ul style="list-style-type: none"> • Performs best in moist, well-drained fertile soil, but will tolerate less-than-ideal conditions • Do not allow to wilt • Typically, second year growth in the landscape will be moderately larger, with significantly earlier flowering. • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- 2nd year dies out in center. (CUH)
- Floppy habit once in bloom and should have been pinched back. (CUH)
- Incredible profusion of bloom, but ages flowers are brown and unattractive. (WPA/CUH)
- Would thrive well in sun and heat! (WPA)

Dianthus 'Heart's Desire' (2010) Patent Info: USPP #20323, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Fluffy double flowers, bubblegum pink with darker pink eye in mid- to late spring, with slight rebloom in fall • Very floriferous with tidy, uniform habit • Sturdy, resilient and easy to grow 	<ul style="list-style-type: none"> • Adapts cheerfully to most conditions, but good drainage and slightly alkaline soils will foster the best garden performance • Allow to dry slightly between waterings, but not to the point of wilting. • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Slow to get going, but takes off as weather warms. (CUH)
- Mild thrip damage on plants in ground, but not as noticeable later in the season.
- Bloom quality and quantity improved later in summer. (CUH)
- Shaded out when used in mixed containers, but provided more sun, they would have flowered all season. (WPA)
- WPA/Containers commented on pleasant blue/grey foliage. (WPA)

Eryngium 'Big Blue' (2009) Patent Info: USPP #20636, PBR Applied For	Outstanding qualities:	Potential problems:
<p>Photo courtesy of Skagit Gardens.</p> 	<ul style="list-style-type: none"> • Big blue, 4-inch (10 cm) blooms in June on thick, sturdy stems • Electric-blue flower color extends well down onto the stems • Green, spiky foliage on erect, candelabra-shaped plants 	<ul style="list-style-type: none"> • Prefers sandy loam soil, low in fertility, but adapts well to other types • Divide with care so as not to damage roots • Deadhead for neat appearance • Do not overwater • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Blue flower color was very attractive, but short lived (WPA/CUH)
- Prone to a bit of crown rot in moist, richer soils with regular irrigation. (CUH)
- Can flop in moist rich soils. (CUH)
- Brown flower stalks lasted well and could be interesting by themselves or in arrangements, but they did not blend well with the other live plants when grown in containers. (WPA)

Helichrysum 'Pink Sapphire' (2009) Patent Info: USPP #20476, COPF, PBR	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Cute spherical flower buds form pleasing clusters over silvery, woolly leaves • Cool, pale-pink round buds, like tiny unopened peonies, form in late May to June • Buds open to small, stiff papery flowers that persist into summer • Soft silver foliage begs to be touched • Unlike most garden plants, flowers are more interesting in the bud stage, before they open 	<ul style="list-style-type: none"> • In the garden, responds best to lean, well-drained soil • Suffers if kept too wet. Cut back spent stems to enjoy foliage • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent
 ☐ Good
 ☒ Fair
 ☐ Poor

Flower Quality & Quantity:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Flower bloom time:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Foliage and Stem quality:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

Heat tolerance:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Growth Rate:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

Overall Vigor and Habit:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Flower Quality & Quantity:

☐ Excellent
 ☒ Good
 ☐ Fair
 ☐ Poor

Flower bloom time:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Foliage and Stem quality:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Heat tolerance:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Growth Rate:

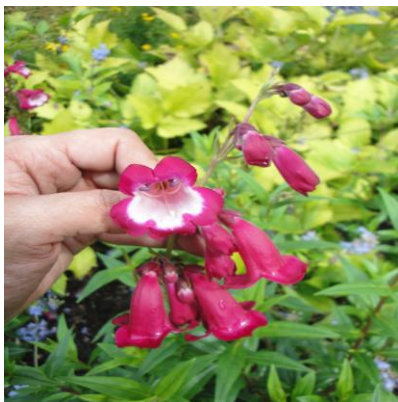
☐ Excellent
 ☐ Good
 ☒ Fair
 ☐ Poor

Overall Vigor and Habit:

☒ Excellent
 ☐ Good
 ☐ Fair
 ☐ Poor

Comments:

- Plant kept a good density of foliage, but never increased much in size. (WPA/CUH)
- Flower color was excellent and persistent, but were few and far between. (WPA)
- Improves after a season of establishment. (CUH)
- Some aphid, thrip damage. (CUH)
- Probably needs more sun and dryer conditions to do well. (WPA)
- Plants died over the winter after 2-3 years (2011)

Penstemon 'Amelia Jayne' (2010) Patent Info:	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Cascades of cerise flowers with clear white throats • Big, flared trumpet-shaped flowers on sturdy, upright stems in June and July • All have contrasting paler interiors and prominent stamens • Distinctly different colors, but uniform performance and similar heights • Handsome lance shaped, rich green leaves 	<ul style="list-style-type: none"> • Requires consistently moist, but well-drained soil for best performance • Deadhead to improve appearance and prolong bloom • Spider mites can be troublesome if plants are too dry • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Comments:

- Sporadic, but large blooms at first. (CUH/WPA)
- Began to flop as blooms increased and plants grew. (CUH)
- Half of plants used in containers did not flower this first year. (WPA)
- Did not survive first winter (2011)

Penstemon 'Czar' (2010) Patent Info:	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Trumpets are solid plum purple outside, bright white inside • Strong and stocky • Big, flared trumpet-shaped flowers on sturdy, upright stems in June and July • All have contrasting paler interiors and prominent stamens • Distinctly different colors, but uniform performance and similar heights • Handsome lance shaped, rich green leaves 	<ul style="list-style-type: none"> • Requires consistently moist, but well-drained soil for best performance • Deadhead to improve appearance and prolong bloom • Spider mites can be troublesome if plants are too dry • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Large flowers, not all that different nor interesting of a color. (CUH)
- Not the heaviest re-bloomer compared to the others in grown in CUH, but as container plantings, was a heavy bloomer. (WPA/CUH)
- In containers, the most vertically upright and tallest of the group. (CUH)
- Did not survive first winter (2011)

Penstemon 'Elanor Young' (2010) Patent Info:	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> Tall and elegant with unusual dark, antique red flowers. Upright stems in June and July. Distinctly different colors, but uniform performance and similar heights. Fine specimens for large containers and noteworthy cut flowers 	<ul style="list-style-type: none"> Requires consistently moist, but well-drained soil for best performance Deadhead to improve appearance and prolong bloom Spider mites can be troublesome if plants are too dry

CUH

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☐ Fair ☒ Poor

Flower bloom time:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Excellent color both bloom and deep purple stems. (CUH)
- Good re-bloom if deadheaded. (CUH)
- Somewhat floppy habit, but could be solved by shearing back regularly. (CUH)
- 1 out of 5 plants flowered first year in containers. (WPA)
- Did not survive first winter (2011)

Penstemon 'Praire Twilight' (2010) Patent Info: USPP #19893, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Tubular pink flowers with white tips and throats in late May to mid-June • Wide, lance-shaped, opposite leaves clasp sturdy stems • Plants form dense, uniform heavy-blooming upright stands • Adaptable to various soil types 	<ul style="list-style-type: none"> • In the garden, especially while flowering, plants will perform best if kept uniformly moist but not overly wet • However, they are reasonably drought-tolerant once established • Cut back stems after flowering for neater appearance • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Planted in an area where it is shaded out by other plants so it did not bloom as well as it could have and the stems were sloppy. (CUH)
- Flowers were small, but interesting- delicate almost. They were more present than the other cultivars and had more of an impact throughout the season. (WPA)
- The delicate form of the plant caused it to be dominated more in the container. These should be planted in masses. (WPA)

Penstemon 'Sweet Joanne' (2009) Patent Info: USPP #20610, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Big, beautiful and plentiful • Large, flared, trumpet flowers are lavender-pink outside, white with bright magenta veins inside • Blooms heavily and continuously from late May through June • Will bloom again in fall if spent stems are removed • Beautiful foliage is glossy green, narrow and gracefully pointed • A vigorous, not aggressive, grower • Forms dense clumps that get larger each year 	<ul style="list-style-type: none"> • Adaptable to different soil types, but thrives with good drainage • In the garden, cut away spent flower spikes as needed to maintain neat appearance and encourage a second flowering flush in early autumn • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Compact grower and habit. (CUH)
- Outstanding bloomer 1st year and into second in the ground. (CUH)
- Could have used a second shearing after first flush as blooms were sparse late season with plants in the ground. (CUH)
- Lack of summer heat with container plants halted re-bloom. (WPA)

Phlox 'Blushing Shortwood' (2009) Patent Info: USPP #20331	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Mildew-resistant • Clusters of cheerful pink and white bicolor blooms in early to midsummer • A diminutive beauty, shorter in height than 'Shortwood' • Good branching habit and minimal mildew observed in trials • No staking needed 	<ul style="list-style-type: none"> • Best in well-drained soil with lots of organic matter and ample moisture • Space plants for good air circulation • Deadheading keeps appearance neater and encourages rebloom • Sun/Part shade

CUH

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☐ Excellent ☒ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Past peak of bloom by September in the ground. (CUH)
- Stems upright, quite stiff and almost brittle; flower heads can be quite top heavy resulting in flopping. (CUH)
- Perhaps in too rich or moist of an area at CUH. (CUH)
- Not overly abundant early on in containers, but well received once in bloom. (WPA)
-

Silene 'Firefly' (2009) Patent Info: USPP #20041, PBR Applied For	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • An exuberant grower with attractive foliage and high, arching sprays of vividly colored, fluffy blooms • Mid-summer flush of bright magenta-pink double flowers • Many petalled, 1-inch (2.5 cm) flowers slightly resemble carnations, their distant relatives • Blooms are borne on a fountain-like eruption of flowering stems • Mounds of mid-green, lightly haired ovate leaves expand upward with flowers. 	<ul style="list-style-type: none"> • Performs best in well-drained, moderately fertile soil • Needs good air circulation • May require staking in very exposed, windy sites • Cut back flower stems for symmetrical appearance when flowering ends • Divide in summer or early fall • Full Sun

CUH

Pest/Disease Resistance:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

WPA/Containers

Pest/Disease Resistance:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Heat tolerance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:


☒ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☒ Good ☐ Fair ☐ Poor

Comments:

- Grew tremendously and vigorously both in the garden and containers. (CUH/WPA)
- May be better in leaner, sandier soil. (CUH)
- Benefits from shearing after the first major flush of blooms and recovers quickly. (CUH)
- Subject to aphids, thrips and a bit of powdery mildew if not sheared back. (CUH)

Veronica 'Verbrig' [Goldwell] (2009) Patent Info: USPP #17423, COPF	Outstanding qualities:	Potential problems:
	<ul style="list-style-type: none"> • Short spikes of soft purple-blue flowers in May and June • Rich green, narrow leaves are edged in bright gold • Forms low, tight mats • Great for sunny slopes • Will perform well in any good, well-drained garden soil 	<ul style="list-style-type: none"> • Shear lightly after blooming to remove spent flower stalks and neaten appearance • Allow to dry slightly between watering • Can be divided after flowering is finished • Full Sun

CUH

Pest/Disease Resistance:

☒ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☐ Fair ☒ Poor

Flower bloom time:

☐ Excellent ☐ Good ☐ Fair ☒ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☐ Fair ☒ Poor

Heat tolerance:

☐ Excellent ☐ Good ☒ Fair ☐ Poor

Growth Rate:

☐ Excellent ☐ Good ☐ Fair ☒ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☐ Fair ☒ Poor

WPA/Containers (DID NOT EVALUATE)

Pest/Disease Resistance:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Flower Quality & Quantity:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Flower bloom time:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Foliage and Stem quality:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Heat tolerance:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Growth Rate:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Overall Vigor and Habit:

☐ Excellent ☐ Good ☐ Fair ☐ Poor

Comments:

- Has barely grown and developed from original plugs after two years.
- Those that did grow die out in the center quickly.
- Flowers were almost non-existent.
- Plant resembled a weed rather than an attractive ornamental plant.