OCTOBER 2022

# RESIDENTIAL RAINGARDEN PILOT PROJECT

### FULL SUN PLANTING LAYOUT: 1A

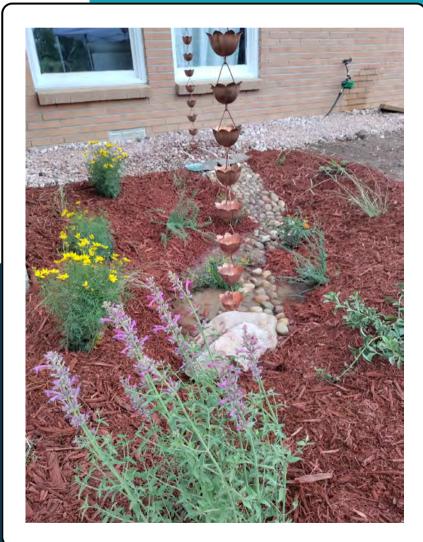


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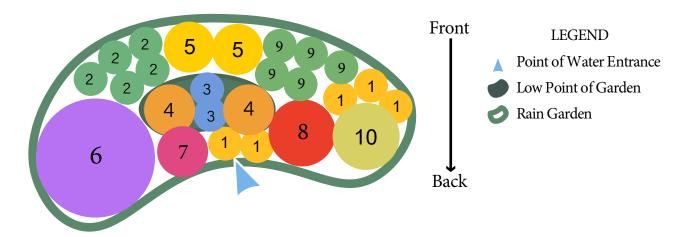








## Rain Garden - Full Sun 50ft<sup>2</sup> Layout 1A



- Black-eyed Susans (*Rudbeckia hirta*)
- 2 Blue Grama (Bouteloua gracilis)
- <sup>3</sup> Blue Flax (*Linum lewisii*)
- <sup>4</sup> Butterfly Weed (*Asclepias tuberosa*)
- Chocolate Flower (*Berlandiera lyrata*)
- 6 Desert Four o'Clock (*Mirabilis multiflora*)
- 7 Desert Penstemon/Beardtongue (Penstemon pseudospectabilis)
- 8 Firecracker Penstemon (Penstemon eatonii)
- 9 Indian Ricegrass (Achnatherum hymenoides)
- 10 Yellow Indiangrass (Sorghastrum nutans)

#### FULL SUN 1A SUBSTITUTION LIST

All Plants on list are Native to the Rocky Mountain/Front Range region

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	Original Plant	Subsitution	Tier	Dimensions	Color
1	Black-eyed Susan	Stiff Tickseed (Coreopsis palmata)	top	3ft tall, 18" spread	Yellow flowers
		Plains Wallflower (Erysimum asperum)	top	3ft tall, 18" spread	Yellow flowers
2	Blue Gramma	Sideoats Grama (Bouteloua curtipendula)	top	2ft tall, 2ft spread	Foliage purple/green
		Hairy Grama (Chondrosum hirsutum)	top	1.5ft tall, 1.5ft spread	Hairy foliage, fluffy grama seedheads
	Blue Flax	Rocky Mountain Iris (Iris missouriensis)	low	1.5ft tall, 10" spread	Blue flowers
3	Blue Flax	Rocky Mountain Columbine (Aquilegia caerulea)	mid/lo w	1.5ft tall, 1ft spread	Light blue and white flowers
4	Butterfly Weed	Golden Columbine (Aquilegia chrysantha)	low	3.5ft tall, 2ft spread	Yellow flowers
-		Orange Sneezeweed (Helenium hoopesii)	low	3ft tall, 2ft spread	Yellow, daisy-like flowers
5	Chocolate	Sulphur Buckwheat (Eriogonum umbellatum)	top	1.5ft tall, 2ft spread	Globe-like yellow flowers
5	Flower	Blanket Flower (Gaillardia aristatal)	top/mi d	•	Daisy-like red and yellow flowers
6	Desert 4 o'Clock	Rosey Pusseytoes (Antennaria rosea)	top	8" tall, spreading groundcover	GROUNDCOVER. pink flowers
		Plains Larkspur (Delphinium var. ollgophylla)	top	1-2ft tall, 2ft spread	pink spike flowers
7	Desert Penstemon	Prairie Coneflower (Ratibida columnifera)	top/mi d	2.5ft tall, 2ft spread	Red and yellow flowers with tall seedheads
		Pearly Everlasting (Anaphalis margaritaceae)		2.5ft tall, 2ft spread	Clusters of white button- like flowers
8	Firecracker Penstemon	Black-eyed Susan (Rudbekia hirta)	top/mi d	3ft tall, 1.5ft spread	Yellow, daisy-like flowers with dark centers
		Anise Hyssop (Agastache aurantiaca)	top	1.5ft tall, 2.5ft spread	Red/orange flowers
9	Indian Ricegrass	Mountain Muhly (Muhlenbergia montana)	top	1-2ft tall, 1.5ft spread	warm season bunchgrass, 2-6" panicle flower
		Muttongrass (Poa fendleriana)	top	1-2ft tall, 1.5ft spread	hairy seedheads
10	Yellow Indiangrass	Alkali Sacaton (Sporobolus airoides)	top	3.5ft tall, 2ft spread	fine texture, golden/bronze in fall/winter
		Little Bluestem (Schizachyrium scoparium)	top	2.5ft tall, 2ft spread	blue-ish stems turn reddish brown when mature

#### Tiers:

Top: lowest water requirements, planted along the garden berm

Mid: average water requirement, planted on the sloping sides of the garden

Low: higher water requirements, planted in the basin, roots must withstand wet conditions up to 12 hours



Matura Haight	of tall with to t0 in sharping d
Mature Height	3ft tall with 12-18 inch spread
Care & Water	Full sun perennial. Prefers well draining soil, water sparingly after establishment (water once a week or when the top inch of soil around the plant is dry).
Flowering Time June to September, blooms yellow/orange	
Hardiness	Zones 3-9, plant 18" apart
Special Features and Notes	Attracts butterflies and other pollinators. Remove flowers after they dry (called deadheading) to prolong blooming and reduce self-sowing. Susceptible to powdery mildew- avoid overwatering.

#### 1. Black-eyed Susans (<u>Rudbeckia hirta</u>)



2. Blue Grama ( <u>Bouteloua gracilis</u> )			
Mature Height	6 to 18 inches tall with 12 to 18 inch spread		
Care & Water	Once established, water once per week. This species will go dormant without rainfall/irrigation and turn light brown but is not dead.		
Flowering Time	Insignificant flowering August to September (seedheads attractive)		
Hardiness	Warm season bunch grass, hardiness zones 4-9, plant 20" apart		
Special Features and Notes	State grass of Colorado! Very drought tolerant (xeric plant) but does not tolerate foot traffic.		

#### Rain Garden Plant Guide: Full Sun 1A October 2022



#### 3. Blue Flax (Linum lewisii)

Mature Height	1-2ft tall with 1-2ft spread		
Care & Water	Xeric plant once established, works well for rocky soils.		
Flowering Time	May and June, delicate light blue flowers		
Hardiness	Zone 4-7, heat and drought tolerant, plant 18" apart		
Special Features and Notes	The flowers open in the morning and last only one day, but the plant flowers profusely. It will self seed once established and has no serious pest or disease issues. Attracts birds and butterflies.		



# **4. Butterfly Weed** (Asclepias tuberosa)Mature Height2-3ft tall and 15-18 inch spreadCare & WaterWater once per week once established.Flowering TimeMay-August, bright orange blooms (seedpods and foliage also attractive)HardinessZones 4-9, plant 18" apartSpecial Features<br/>and NotesGreat for rocky/sandy soils. Vital to butterfly and moth populations such<br/>as Monarchs while migrating. Also attracts hummingbirds and bees.



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Mature Height	1-2ft tall and 1-2ft wide
Care & Water	Once established, water once per week. Very resilient.
Flowering Time	Late April-July
Hardiness Zones 4-10, plant 24" apart	
Special Features and Notes	The flowers smell like chocolate and are edible! Attracts pollinators with their scent. Deadhead to promote flower production. In zone 5 it is an annual but reseeds aggressively so it will come back up the year after planting in the spring.

#### 5. Chocolate Flower (*Berlandiera lyrata*)

#### 6. Desert Four o'Clock (Mirabilis multiflora)



Mature Height	2ft tall and 3ft spread, rounded		
Care & Water	Once established it is xeric, water once per week.		
Flowering Time	May-September, bright pink flowers open in the afternoon		
Hardiness	Zones 4-8, very drought tolerant, plant 36" apart		
Special Features and Notes	Attracts butterflies, hummingbirds, nocturnal insects, and bees. Great for erosion control due to its robust root systems. Rabbit and deer resistant.		



Mature Height	ht 3ft tall and 18 inch spread, rounded growth habit		
Care & Water	Once established water once per week. They do well in poor, low fertility soil.		
Flowering Time	May-July, deep pink/red flowers		
Hardiness Zones 5-9, plant 36" apart			
Special Features and Notes	Attracts butterflies, bees, and hummingbirds. Deer resistant. Reseeds aggressively like chocolate flowers and flax.		

#### 7. Desert Penstemon/Beardtongue (Penstemon pseudospectabilis)



#### 8. Firecracker Penstemon (<u>Penstemon eatonii</u>)

Mature Height	2-3ft tall and 2-3ft spread. Upright growth habit.	
Care & Water	Once established, water once per week. Very drought tolerant.	
Flowering Time May-August, red flowers.		
Hardiness	Zones 5-9, plant 20" apart	
Special Features and Notes	Deer resistant. Fibrous root system great for water-wise landscaping and erosion prevention. Rocky/sandy soils with good drainage are preferred.	



. Indiana Ricegi ass ( <u>Incintante) and Agrice (Incintante)</u>			
Mature Height	1-3ft tall with 1-2ft spread		
Care & Water	Once established, water once per week		
Flowering Time	June-September, flowers are small and yellow or green		
Hardiness	Zones 3-9, plant 24" apart		
Special Features and Notes	Seeds are harvested by birds and small mammals. Great for soil retention and erosion control.		

#### 9. Indian Ricegrass (Achnatherum hymenoides)



10. Yellow Indiangrass (Sorghastrum nutans)			
Mature Height 3-6ft tall 2-3ft wide			
Care & Water Once established, water once per week.			
Flowering Time	August-October		
Hardiness	Zones 4-9, plant 24" apart		
Special Features and Notes	The fluffy seed heads look great in flower arrangements! Birds harvest the seeds and use the grass as nesting material.		