OCTOBER 2022

RESIDENTIAL RAINGARDEN PILOT PROJECT

FULL SUN PLANTING LAYOUT: 1A

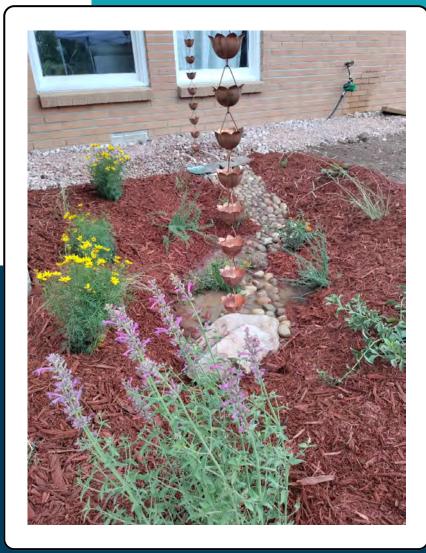


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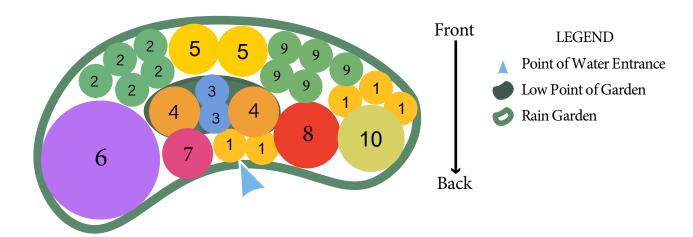








Rain Garden - Full Sun 50ft² Layout 1A



- Black-eyed Susans (Rudbeckia hirta)
- 2 Blue Grama (Bouteloua gracilis)
- 3 Blue Flax (Linum lewisii)
- 4 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

	Original Plant	Subsitution	Tier	Dimensions	Color
1	Black-eyed Susan	Stiff Tickseed (Coreopsis palmata)	top	3ft tall, 18" spread	Yellow flowers
1		Plains Wallflower (Erysimum asperum)	top	3ft tall, 18" spread	Yellow flowers
	DI C	Sideoats Grama (Bouteloua curtipendula)	top	2ft tall, 2ft spread	Foliage purple/green
2	Blue Gramma	Hairy Grama (Chondrosum hirsutum)	top	1.5ft tall, 1.5ft spread	Hairy foliage, fluffy grama seedheads
_	Div. Fla	Rocky Mountain Iris (<i>Iris</i> 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
4	Butterity weed	Orange Sneezeweed (Helenium hoopesii)	low	· ·	Yellow, daisy-like flowers
5	Chocolate	Sulphur Buckwheat (Eriogonum umbellatum)	top	1.5ft tall, 2ft spread	Globe-like yellow flowers
J	Flower	Blanket Flower (Gaillardia aristatal)	top/mi d	2.5ft tall, 2ft spread	Daisy-like red and yellow flowers
		Rosey Pusseytoes (Antennaria rosea)	top	8" tall, spreading groundcover	GROUNDCOVER. pink flowers
6	Desert 4 o'Clock	Plains Larkspur (Delphinium var. ollgophylla)	top	1-2ft tall, 2ft spread	pink spike flowers
7	Desert	Prairie Coneflower (Ratibida columnifera)	top/mi d	2.5ft tall, 2ft spread	Red and yellow flowers with tall seedheads
,	Penstemon	Pearly Everlasting (Anaphalis margaritaceae)	top/mi d	2.5ft tall, 2ft spread	Clusters of white button- like flowers
8	Firecracker	Black-eyed Susan (Rudbekia hirta)	top/mi d	3ft tall, 1.5ft spread	Yellow, daisy-like flowers with dark centers
8	Penstemon	Anise Hyssop (Agastache aurantiaca)	top	1.5ft tall, 2.5ft spread	Red/orange flowers
9	Indian Dicograce	Mountain Muhly (Muhlenbergia montana)	top	1-2ft tall, 1.5ft spread	warm season bunchgrass, 2-6" panicle flower
9	Indian Ricegrass	Muttongrass (Poa fendleriana)	top	1-2ft tall, 1.5ft spread	hairy seedheads
10	Yellow	Alkali Sacaton (Sporobolus airoides)	top	3.5ft tall, 2ft spread	fine texture, golden/bronze in fall/winter
10	Indiangrass	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



1. Black-eyed Susans (*Rudbeckia hirta*)

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.



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.



3. Blue Flax (<u>Linum lewisii</u>)

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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 (<u>Asclepias tuberosa</u>)

Mature Height	2-3ft tall and 15-18 inch spread
Care & Water	Water once per week once established.
Flowering Time	May-August, bright orange blooms (seedpods and foliage also attractive)
Hardiness	Zones 4-9, plant 18" apart
Special Features and Notes	Great for rocky/sandy soils. Vital to butterfly and moth populations such as Monarchs while migrating. Also attracts hummingbirds and bees.



5. Chocolate Flower (<u>Berlandiera lyrata</u>)

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.



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.



7. Desert Penstemon/Beardtongue (Penstemon pseudospectabilis)

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Mature Height	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.	



8. Firecracker Penstemon (Penstemon eatonii)

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.



9. Indian Ricegrass (Achnatherum hymenoides)

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.



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.