OCTOBER 2022

RESIDENTIAL RAINGARDEN PILOT PROJEC

FULL SUN PLANTING LAYOUT: 1B

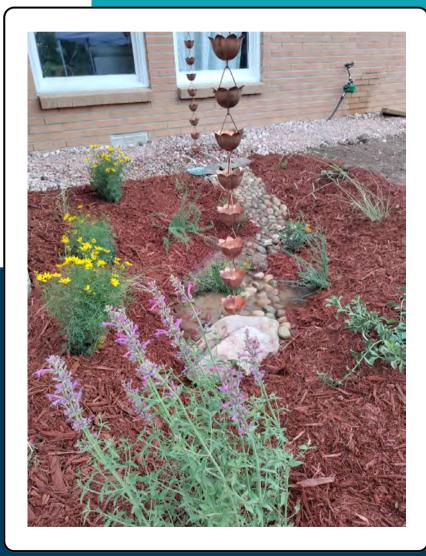


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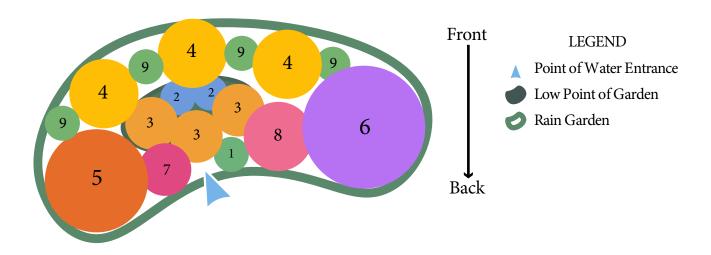








Rain Garden - Full Sun 50ft² Layout 1B



- 1 Blue grama (Bouteloua gracilis)
- 2 Blue flax (Linum lewisii)
- 3 Butterfly weed (Asclepias tuberosa)
- 4 Coreopsis Tickseed (Coreopsis spp)
- 5 Coronado Hyssop (*Agastache aurantiaca* "Coronado")
- 6 Desert Four o'Clock (Mirabilis multiflora)
- Desert Penstemon/Beardtongue (Penstemon pseudospectabilis)
- 8 Purple Coneflower (Echinacea purpurea)
- 9 Indian Ricegrass (Achnatherum hymenoides)

FULL SUN 1B SUBSTITUTION LIST

Number	Original Plant	All Plants on list are Native to the Rocky Mountain/Front Range region Layout Time Biomedia Region Coloring			
	Originae'r taire	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
		Sideoats Grama (Bouteloua curtipendula)	top	2ft tall, 2ft spread	Foliage purple/green
2		Hairy Grama (Chondrosum hirsutum)	top	1.5ft tall, 1.5ft spread	Hairy foliage, fluffy grama seedheads
		Rocky Mountain Iris (<i>Iris</i> missouriensis)	low	1.5ft tall, 10" spread	Blue flowers
3	Blue Flax	Rocky Mountain Columbine (Aquilegia caerulea)	mid/low	1.5ft tall, 1ft spread	Light blue and white flowers
		Golden Columbine (Aquilegia chrysantha)	low	3.5ft tall, 2ft spread	Yellow flowers
4	Butterfly Weed	Orange Sneezeweed (Helenium hoopesii)	low	3ft tall, 2ft spread	Yellow, daisy-like flowers
5		Sulphur Buckwheat (Eriogonum umbellatum)	top	1.5ft tall, 2ft spread	Globe-like yellow flowers
_		Blanket Flower (Gaillardia aristatal)	top/mid	2.5ft tall, 2ft spread	Daisy-like red and yellow flowers
6	Coreopsis	Black-eyed Suan (Rudbeckia hirta)	top	1-2ft tall, 2ft spread	Yellow, daisy-like flowers with dark centers
Ů		Chocolate Flower (Berlandia lyrata)	top/mid	1-2ft tall, 2ft spread	Yellow, daisy-like flowers that smell like chocolate
7	Coronado Hysson	Desert Penstemon (Penstemon psuedospectabilis)	top	1.5ft tall, 2ft spread	Fuschia/red tubular flowers
,		Prairie Coneflower (Ratibida columnifera)	top/mid	2.5ft tall, 2ft spread	Red and yellow flowers with tall seedheads
		Native Gayfeather (<i>Liatris punctata</i>)	top	1-2ft tall, 1.5ft spread	fuzzy, lavendar flowers
8		Plains Larkspur (Delphinium var. ollgophylla)	top	1-2ft tall, 2ft spread	pink spike flowers
9	December Development	Prairie Coneflower (Ratibida columnifera)	top/mid	2.5ft tall, 2ft spread	Red and yellow flowers with tall seedheads
9		Pearly Everlasting (Anaphalis margaritaceae)	top/mid	2.5ft tall, 2ft spread	Clusters of white button-like flowers
10		Pink Coreopsis (Coreopsis rosea)	top/mid	1-2ft tall, 2ft spread	pastel pink daisy-like flowers
10	•	Rocky Mountain Beeplant (Cleome serrulata)	top/mid	3ft tall, 2ft spread	Purple, spider-like flowers with earthy aroma
11 Fi	rocracker Penetemon	, , ,	top/mid	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
12		Showy Fleabane (<i>Erigeron</i> speciousus)	mid/low	1.5ft tall, 1.5ft spread	lavendar, aster-like flowers with yellow center
12		Mountain Avens (Dryas octopetala)	top	10" tall, 1ft spread	White flowers, with feathery seedheads
13		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
14	Little Bluestem	Blue Grama	top/mid	1-2ft tall, 1ft spread	grass with fuzzy seedheads
		Muttongrass (Poa fendleriana)	top	1-2ft tall, 1.5ft spread	hairy seedheads
		Mountain Muhly (Muhlenbergia montana)	top	1-2ft tall, 1.5ft spread	warm season bunchgrass, 2-6" panicle flower
15		Little Bluestem (Schizachyrium scoparium)	top	2.5ft tall, 2ft spread	blue-ish stems turn reddish brown when mature
4.0	Sunset Hyssop	Desert Penstemon (Penstemon psuedospectabilis)	top	1.5ft tall, 2ft spread	Fuschia/red tubular flowers
16		Prairie Coneflower (Ratibida columnifera)	top/mid	2.5ft tall, 2ft spread	Red and yellow flowers with tall seedheads
17	Yellow Indiangrass	Alkali Sacaton (Sporobolus airoides)	top	3.5ft tall, 2ft spread	fine texture, golden/bronze in fall/winter
17		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. 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.



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

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.



3. 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.



4. Coreopsis Tickseed (*Coreopsis spp*)

Mature Height	1-2ft tall with 1-2ft spread, rounded growth habit.
Care & Water	Once established, water once per week.
Flowering Time	June-September
Hardiness	Zones 4-9, plant 8" apart
Special Features and Notes	There are many cultivars and varieties of coreopsis with different flower colors and features. Deer resistant.



5. Coronado Hyssop (<u>Agastache aurantiaca "Coronado"</u>)

Mature Height	1.5-2.5ft tall and 1-2ft spread, upright growth habit.		
Care & Water	Once established, water once per week.		
Flowering Time	June-August		
Hardiness	Zones 6-9, plant 12" apart		
Special Features and Notes	Also called Hummingbird Mint, the birds are attracted to the fragrance of the flowers. Deer and rabbit resistant.		

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 18" 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 (<u>Penstemon pseudospectabilis</u>)

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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 20" apart		
Special Features and Notes	Attracts butterflies, bees, and hummingbirds. Deer resistant. Reseeds aggressively like chocolate flowers and flax.		



8. Purple Coneflower (<u>Echinacea purpurea</u>)

Mature Height	2-4ft tall and 2ft wide, upright growth habit.
Care & Water	Once established, water once per week.
Flowering Time	July-September
Hardiness	Zones 3-9, plant 18" apart
Special Features and Notes	Attracts pollinators while blooming, after flowers are finished the seed heads then attract songbirds. Deer resistant.



9. Indian Ricegrass (Achnatherum hymenoides)

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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.		