OCTOBER 2022

RESIDENTIAL RAINGARDEN PILOT PROJECT

FULL SUN PLANTING LAYOUT: 1B



PRODUCED BY

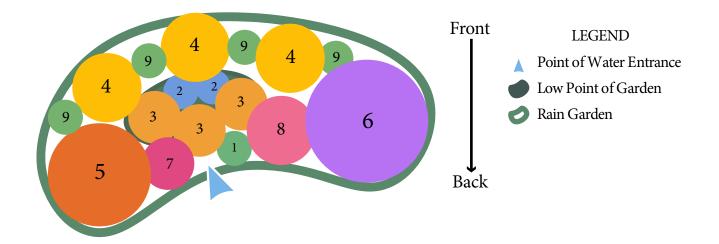




HORTICULTURE AND LANDSCAPE ARCHITECTURE COLORADO STATE UNIVERSITY



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*)
- 7 Desert Penstemon/Beardtongue (Penstemon pseudospectabilis)
- 8 Purple Coneflower (*Echinacea purpurea*)
- 9 Indian Ricegrass (Achnatherum hymenoides)

FULL SUN 1B SUBSTITUTION LIST

All Plants on list are Native to the Rocky Mountain/Front Range region					
Layout	Original Plant Subsitution Lier Dimensions		Color		
Number		Stiff Tickseed (Coreopsis palmata)	top	3ft tall, 18" spread	Yellow flowers
1	Black-eyed Susan	Plains Wallflower (Erysimum asperum)	top	3ft tall, 18" spread	Yellow flowers
		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
3	Blue Flax	Rocky Mountain Iris (Iris missouriensis)	low	1.5ft tall, 10" spread	Blue flowers
		Rocky Mountain Columbine (Aquilegia caerulea)	mid/low	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
-	Butterity Weed	Orange Sneezeweed (Helenium hoopesii)	low	3ft tall, 2ft spread	Yellow, daisy-like flowers
5	Chocolate Flower	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
Ŭ	00000000	Chocolate Flower (Berlandia lyrata)	top/mid	1-2ft tall, 2ft spread	Yellow, daisy-like flowers that smell like chocolate
7	Coronado Hyssop	Desert Penstemon (Penstemon psuedospectabilis)	top	1.5ft tall, 2ft spread	Fuschia/red tubular flowers
,	Coronado Hyssop	Prairie Coneflower (Ratibida columnifera)	top/mid	2.5ft tall, 2ft spread	Red and yellow flowers with tall seedheads
		Native Gayfeather (Liatris punctata)	top	1-2ft tall, 1.5ft spread	fuzzy, lavendar flowers
8	Desert 4 o'Clock	Plains Larkspur (Delphinium var. ollgophylla)	top	1-2ft tall, 2ft spread	pink spike flowers
9	Desert Penstemon	Prairie Coneflower (Ratibida columnifera)	top/mid	2.5ft tall, 2ft spread	Red and yellow flowers with tall seedheads
-		Pearly Everlasting (Anaphalis margaritaceae)	top/mid	2.5ft tall, 2ft spread	Clusters of white button-like flowers
		Pink Coreopsis (Coreopsis rosea)	top/mid	1-2ft tall, 2ft spread	pastel pink daisy-like flowers
10	Purple Coneflower	Rocky Mountain Beeplant (<i>Cleome</i> serrulata)	top/mid	3ft tall, 2ft spread	Purple, spider-like flowers with earthy aroma
11	Firecracker Penstemon	, , ,	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	Harebells	Showy Fleabane (Erigeron speciousus)	mid/low	1.5ft tall, 1.5ft spread	lavendar, aster-like flowers with yellow center
		Mountain Avens (Dryas octopetala)	top	10" tall, 1ft spread	White flowers, with feathery seedheads
13	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
14	Little Bluestem	Blue Grama	top/mid	1-2ft tall, 1ft spread	grass with fuzzy seedheads
A 7		Muttongrass (Poa fendleriana)	top	1-2ft tall, 1.5ft spread	hairy seedheads
15	Switchgrass	Mountain Muhly (Muhlenbergia montana)	top	1-2ft tall, 1.5ft spread	warm season bunchgrass, 2-6" panicle flower
	-	Little Bluestem (Schizachyrium scoparium)	top	2.5ft tall, 2ft spread	blue-ish stems turn reddish brown when mature
16	Sunset Hyssop	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
17	Yellow Indiangrass	Alkali Sacaton (Sporobolus airoides)	top	3.5ft tall, 2ft spread	fine texture, golden/bronze in fall/winter
17		Little Bluestem (<i>Schizachyrium</i> 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. Dide of and (<u>Doddelodd yr delis</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.	

1. Blue Grama (<u>Bouteloua gracilis</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.	

2. Blue Flax (*Linum lewisii*)

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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 (<u>Coreopsis spp</u>)

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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.

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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.

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

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.



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.

7. Desert Penstemon/Beardtongue (Penstemon pseudospectabilis)

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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 (<u>Achnatherum hymenoides</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.