OCTOBER 2022

RESIDENTIAL RAINGARDEN PILOT PROJECT

PART SHADE PLANTING LAYOUT: 2



PRODUCED BY



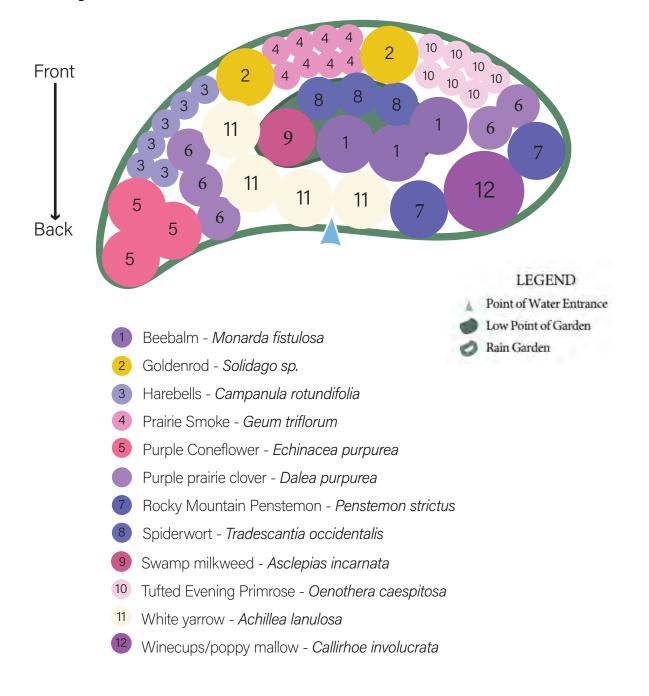


COLORADO Colorado Water Conservation Board Department of Natural Resources





Rain Garden - Partial Shade Layout 2 - 100ft²



PARTIAL SHADE 2 SUBSTITUTION LIST

All Plants on list are Native to the Rocky Mountain/Front Range Region Lavout Color **Original Plant** Subsitution Tier Dimensions Number Rose Vervain (Glandularia blue/purple fragrant flowers, can top/mid 1ft tall, 1.5ft spread canadensis) become a groundcover 1 Beebalm Rocky Mountain Columbine 1.5ft tall, 1ft spread Light blue and white flowers mid (Aquilegia caerulea) Cutleaf Coneflower (Rudbeckia mid 3ft tall, 2ft spread large yellow coneflowers laciniata) 2 Goldenrod ornamental grass with red flower 2-5ft tall, 2-3ft spread top Switchgrass (Panicum virgatum) panicles Showy Fleabane (Erigeron lavendar, aster-like flowers with 1.5ft tall, 1.5ft spread mid speciousus) yellow center 3 Harebells White Yarrow (Achillea white flowers, finely textured top 1-2ft tall, 1.5ft spread millefolium) foliage Rose Vervain (Glandularia blue/purple fragrant flowers, can top/mid 1ft tall, 1.5ft spread canadensis) become a groundcover Prairie Smoke 4 Rocky Mountain Columbine mid 1.5ft tall, 1ft spread Light blue and white flowers (Aquilegia caerulea) Great Blue Lobelia (Lobelia small, blue/purple flowers in a 2ft tall, 2ft spread top siphilitica) tall panicle 5 **Purple Coneflower** Rocky Mountain Penstemon 2ft tall, 2ft spread purple/blue flowers top (Penstemon strictus) Wild Beebalm (Monarda top/mid 2ft tall, 2ft spread purple or pink flowers fistulosa) **Purple Prairie** 6 Clover Rocky Mountain Penstemon 2ft tall, 2ft spread purple/blue flowers top (Penstemon strictus) Great Blue Lobelia (Lobelia small, blue/purple flowers in a 2ft tall, 2ft spread top siphilitica) tall panicle Rocky Mountain 7 Penstemon Cutleaf Coneflower (Rudbeckia mid 3ft tall, 2ft spread large yellow coneflowers laciniata) Harebells (Campanula light blue, ballon-like flower with mid/low 1.5ft tall, 10" spread rotundifolia) delicate foliage 8 Spiderwort Rocky Mountain Iris (Iris 1.5ft tall, 10" spread Blue flowers, bulbs resprout low missouriensis) wavy, ovate foliage with pinkish American Spikenard mid/low 2.5ft tall, 2ft spread white glowers that smell like (Maianthemum racemosum) roses 9 Swamp Milkweed Purple Monkey Flower (Mimulus fuschia snap dragon-like flowers low 2.5ft tall, 2ft spread lewisii) with yellow throats GROUNDCOVER, fuschia Winecups (Callirhoe involucrata) top/mid 10" tall, 2-3ft spread **Tufted Evening** flowers 10 Primrose pink globes of flowers, Sea Pink (Armeria maritima)* top 1ft tall, 1ft spread *naturalized Western Marsh Marigold (Caltha white flowers with yellow low 10" tall, 1ft spread leptosepala) centers White Yarrow 11 white, 6 petal delicate flower Queen Cup (Clintonia uniflora) mid 10" tall, 10" spread forming a purple fruit eaten by birds Western Columbine (Aquilegia red and yellow penduous mid 1.5ft tall, 2ft spread formosa) flowers 12 Winecups ornamental grass with red flower 2-5ft tall, 2-3ft spread top Switchgrass (Panicum virgatum) panicles

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. Beebalm (<u>Monarda fistulosa</u>)

Mature Height	2-4ft tall and 2-3ft spread
Care & Water	Once established, water once per week. Deadhead to promote blooming.
Flowering Time	May-September
Hardiness	Zones 3-9, plant 20" apart
Special Features and Notes	Attracts bees, butterflies, hummingbirds, and other pollinators. Deer and rabbit resistant. Prone to powdery mildew when overwatered.

2. Goldenrod (<u>Solidago spp</u>)

Mature Height	3-5ft tall and 3-4ft spread
Care & Water	Once established, water once per week. Deadhead to promote more blooms.
Flowering Time	August-September
Hardiness	Zones 3-8, plant 28" apart
Special Features and Notes	Attracts bees, butterflies, beetles, and birds. Deer resistant. Spreads through rhizomes and can be divided to propagate.

3. Harebells/Bluebells (Campanula rotundifolia)

Once established, water once per week.
June-September, periwinkle color flowers.
Zones 2-7, plant 6" apart
Attracts hummingbirds. When grown from seed, the plants start blooming

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and Notes	the second year.
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4. Prairie Smoke (<u>Geum triflorum</u>)

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Mature Height	1ft tall and 1ft spread
Care & Water	Once established, water once per week.
Flowering Time	May-July
Hardiness	Zones 3-8, plant 10" apart
Special Features and Notes	Looks like mini truffula trees! Attracts butterflies and is deer resistant. Rabbits like to eat the blooms.

5. 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.

6. Purple Prairie Clover (<u>Dalea purpurea</u>)

Mature Height	1-3ft tall and 1-2ft spread
Care & Water	Once established, water once per week.
Flowering Time	July-August

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Hardiness	Zones 3-8, plant 12" apart
Special Features and Notes	They bloom from bottom to top. Nitrogen fixer adding nitrogen back into the soil. Attracts bees, birds, and butterflies. Deer and rabbit resistant.

7. Rocky Mountain Penstemon (Penstemon strictus)

Mature Height	2-3ft tall and 2-3ft spread
Care & Water	Once established, water once per week.
Flowering Time	Early June
Hardiness	Zone 3-8, plant 20" apart
Special Features and Notes	Evergreen perennial that attracts hummingbirds, bees, and other pollinators. Spires of deep purple/indigo flowers above mat of foliage.

8. Spiderwort (Tradescantia occidentalis)

Mature Height	1-2ft tall with 1ft spread
Care & Water	Once established, water once per week.
Flowering Time	April-September
Hardiness	Zones 4-9, plant 10" apart
Special Features and Notes	Each flower only lasts one day, the plant blooms in succession. Attracts native bees. Deer resistant.

9. Swamp Milkweed (Asclepias incarnata)

Mature Height	4-5ft tall with 2-3ft spread
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Care & Water	Once established, water once per week.
Flowering Time	June-September
Hardiness	Zones 3-11, plant 30" apart
Special Features and Notes	Toxic to dogs, cats, and horses if consumed. Attracts butterflies (especially Monarchs) and hummingbirds. Deer resistant.

9. Tufted Evening Primrose (<u>Oenothera caespitosa</u>)

Mature Height	1ft tall with 2ft spread
Care & Water	Once established, water once per week.
Flowering Time	April-August
Hardiness	Zones 4-8, plant 24" apart
Special Features and Notes	Delicate foliage with large flowers that bloom in the afternoon and close in the morning, the withered petals turn pink. Attracts birds.

10. White Yarrow (<u>Achillea lanulosa</u>)

Mature Height	2-3ft tall with 2ft spread
Care & Water	Once established, water once per week.
Flowering Time	June-mid September
Hardiness	Zones 2-9, plant 18" apart
Special Features and Notes	Flowers and leaves (when crushed) have a pleasant aroma. White yarrow is the original native variety but other varieties bloom yellow, pink, or red.

Part Shade Plant Guide Layout 2 11. Winecups/Poppy Mallow (<u>Callirhoe involucrata</u>)

Mature Height	6in-1ft tall with 3ft spread
Care & Water	Once established, water once per week.
Flowering Time	March-June
Hardiness	Zones 4-8, plant 3ft apart
Special Features and Notes	Ornate foliage that is attractive when not in bloom. Attracts butterflies and hummingbirds.



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