

Colorado Landscape Basics

*Lawn Care
Trees and Shrubs
Water-wise Landscaping*



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



What is Extension?

*Where University meets
Community*

- We're the outreach arm of Colorado State University (your land grant institution) that can provide you with information to use every day
- Our offices have the following programs/services:
 - Horticulture and Master Gardeners
 - 4-H Youth Development
 - Food Safety and Food Preservation
 - Agriculture and Natural Resources
 - Community Development
 - And more!
- Visit extension.colostate.edu to find your county office and more information

Water-wise Gardening in Colorado



Photo: Amy Lentz, CSU



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER

WE HOPE YOU ENJOY YOUR STAY



It's Not Easy to Garden Here...

It's not just the cold that makes things difficult...

- Low humidity
- Fluctuating temperatures
- Alkaline (high pH) soils
- Wind
- Intense sunlight
- Short(ish) growing season
- **Lack of water!**



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Colorado Water History

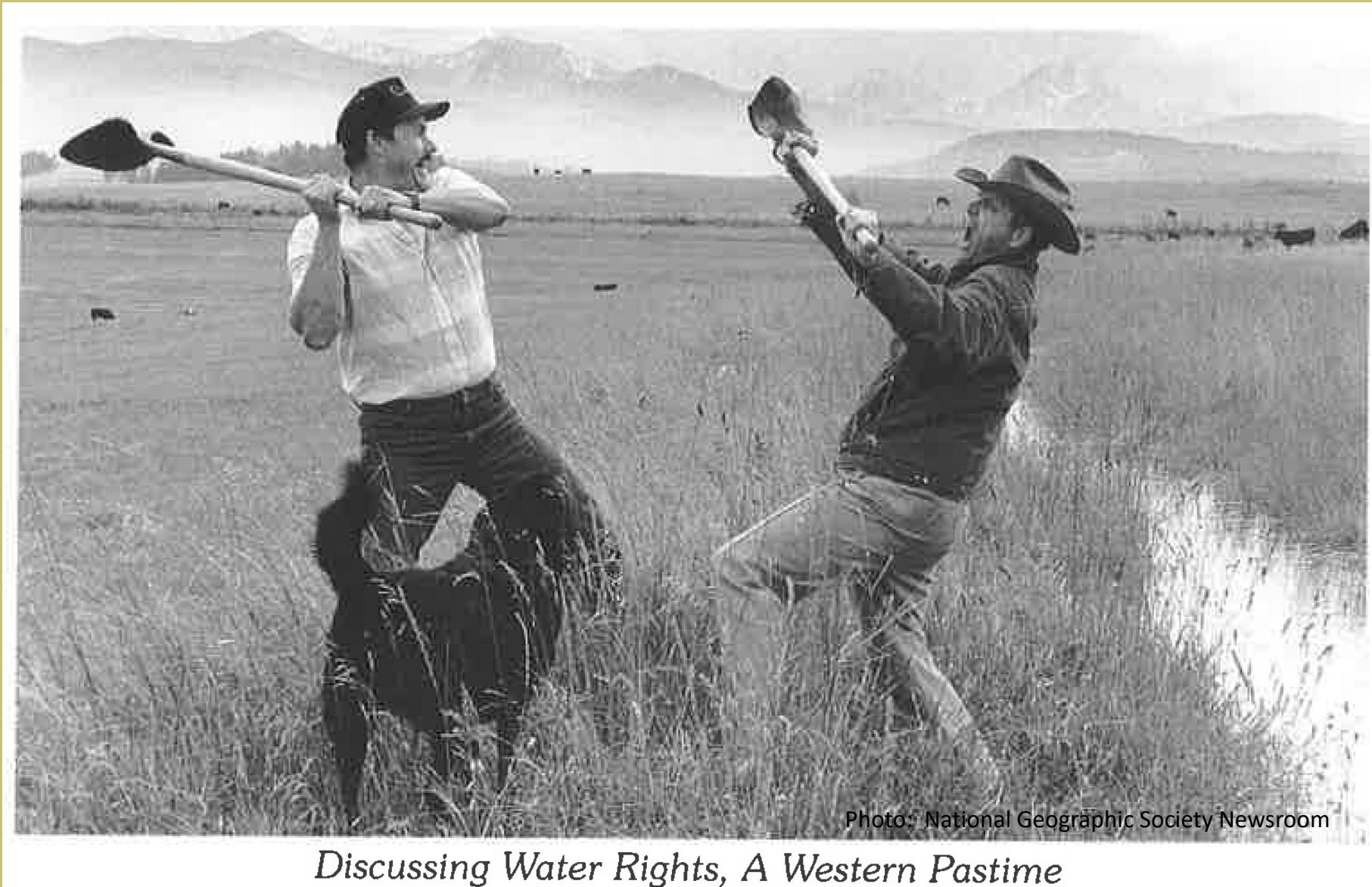


Photo: National Geographic Society Newsroom

Discussing Water Rights, A Western Pastime



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



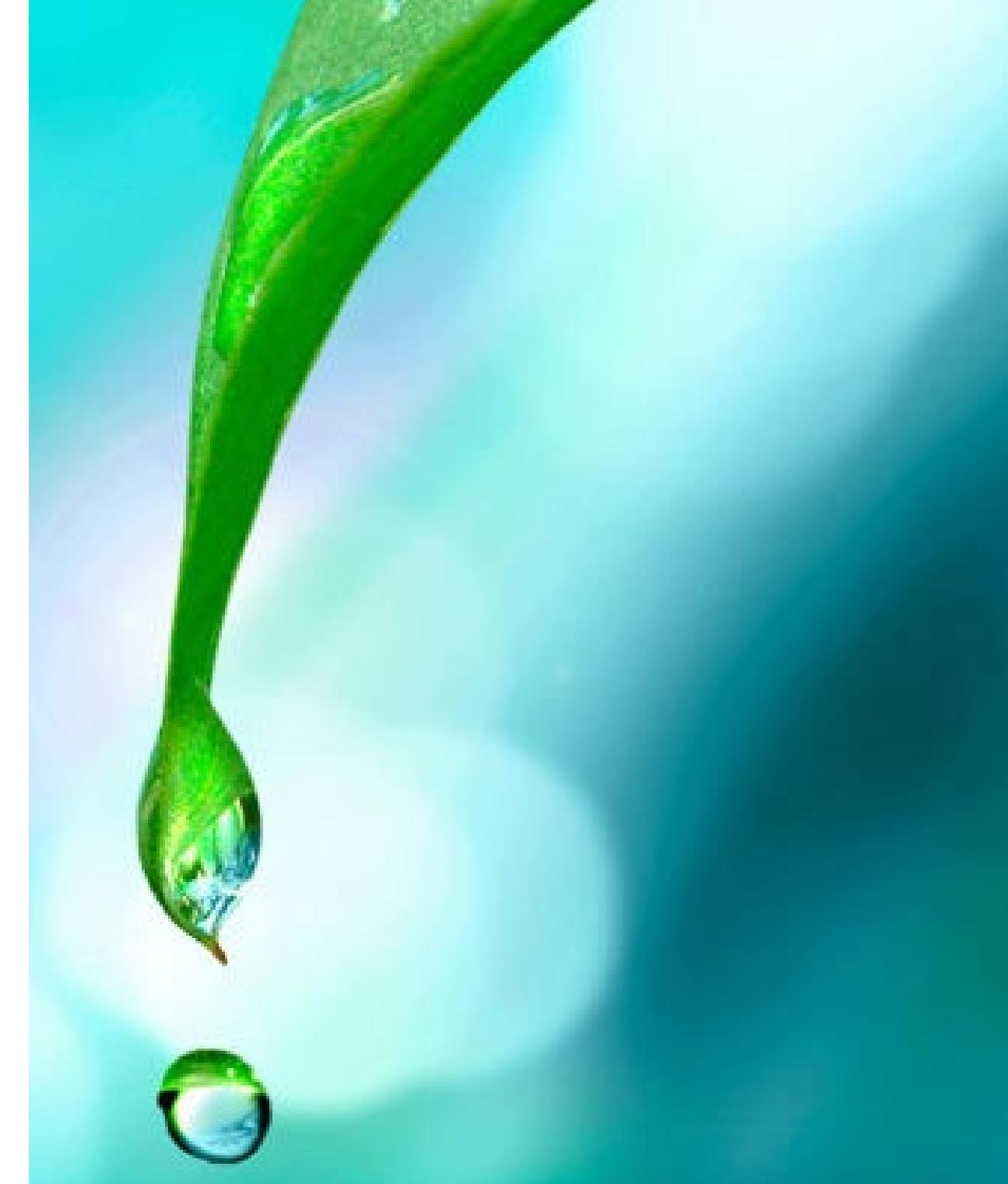
- Colorado is a semi-arid state with 8 to 15 inches of precipitation per year on average.
- The average CO household uses **almost 50%** of its annual water supply to water the landscape.
- Increasing population will put more demand on our water supply.
- A well thought out water-smart landscape can reduce outdoor water use by 60%!



Lack of Water

Average Annual Precipitation

- **Gunnison:** 10.1" per year
- **Pueblo:** 12.4" per year
- **Greeley:** 14.4" per year
- **Colorado Springs:** 17.5" per year
- **Boulder:** 19.7" per year
- **Durango:** 19.9" per year
- **Steamboat Springs:** 23.8" per year





Why be Water-Wise?

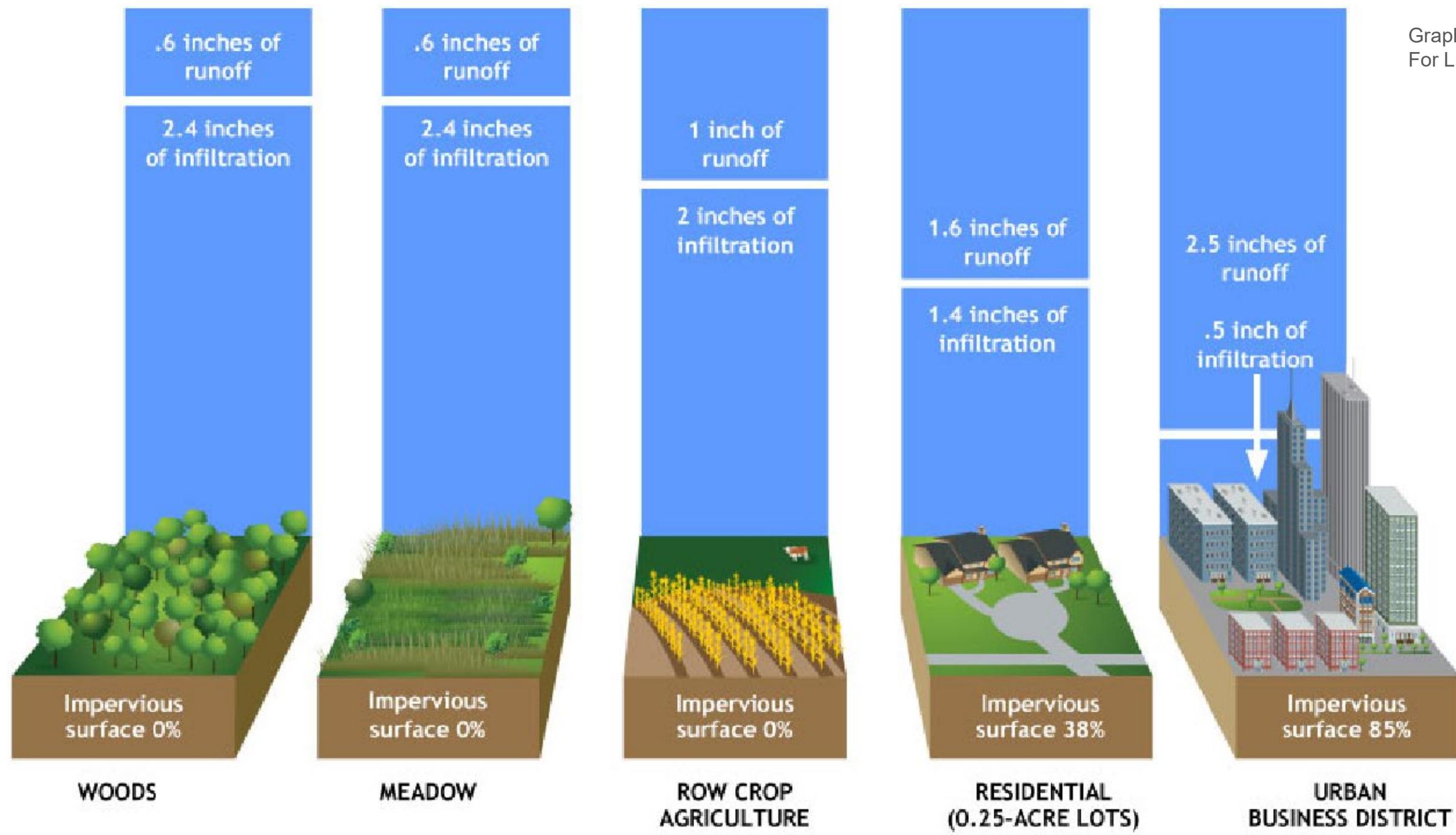
Where we live...

- Semi-arid environment
- Mostly urban
- Western US: 60% of municipal fresh water is used for landscape
- Front Range: ~50% (mostly turf)

Water-wise Landscapes can...

- Use fewer resources
- Save \$\$\$

Photo: NASA astronauts



Urbanization alters the water cycle of a watershed



Semi-Arid and Erratic Climate

- Colorado has a semi-arid climate across most of the state
- Dramatic climatic differences
- Wild swings in temperature
- Strong thunderstorms/hail
- Drought or very dry conditions are normal for the state (and our native plants)

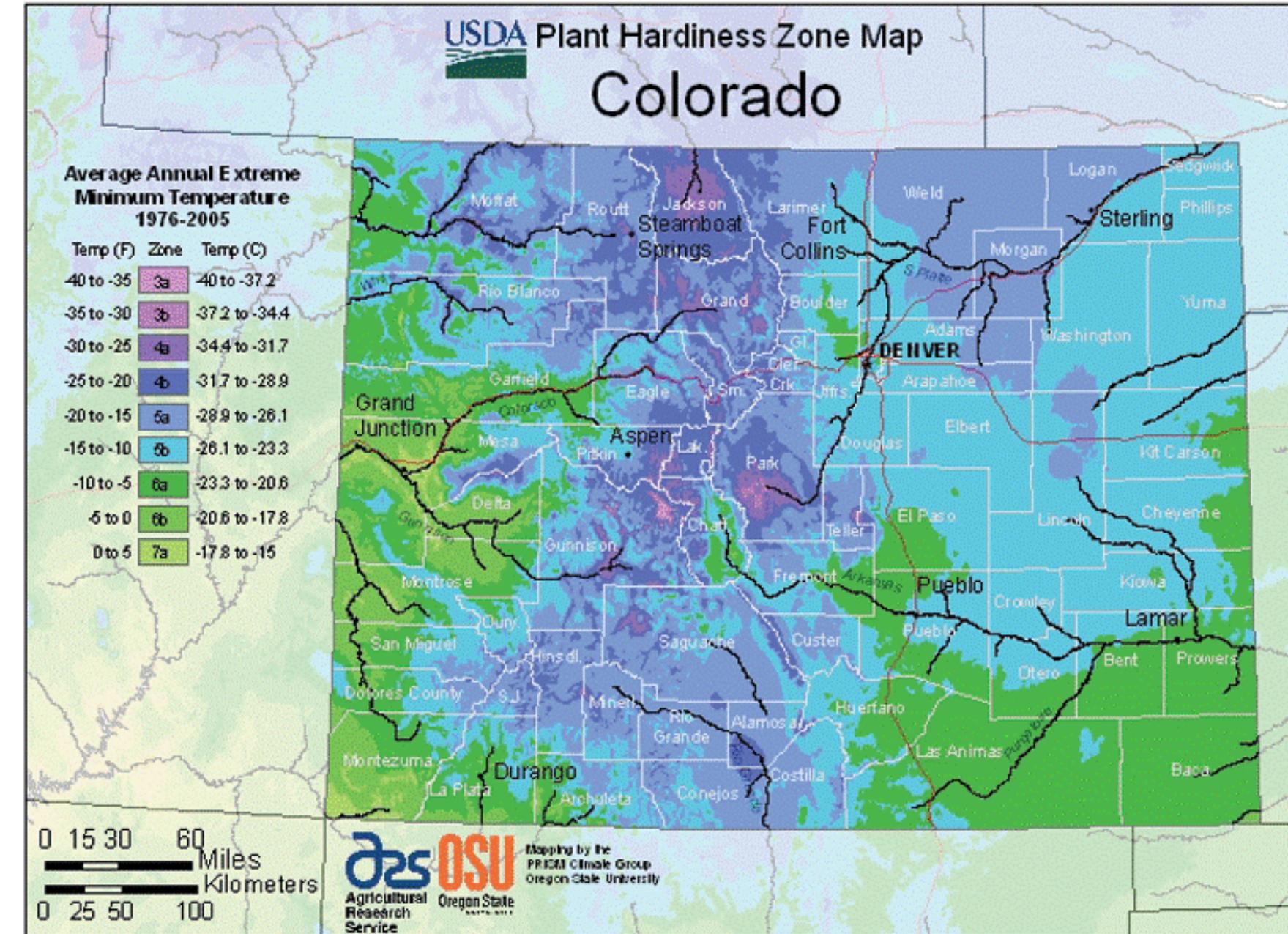




Photo: University of Washington Botanic Gardens

Photo: Norfolk Botanic Garden



What is xeriscape?

The word “xeriscape” (pronounced ZEER-i-scape) is derived from the Greek word “xeros” meaning “dry”.

Landscaping with water conservation as the primary objective.



Colorado's high, dry great plains

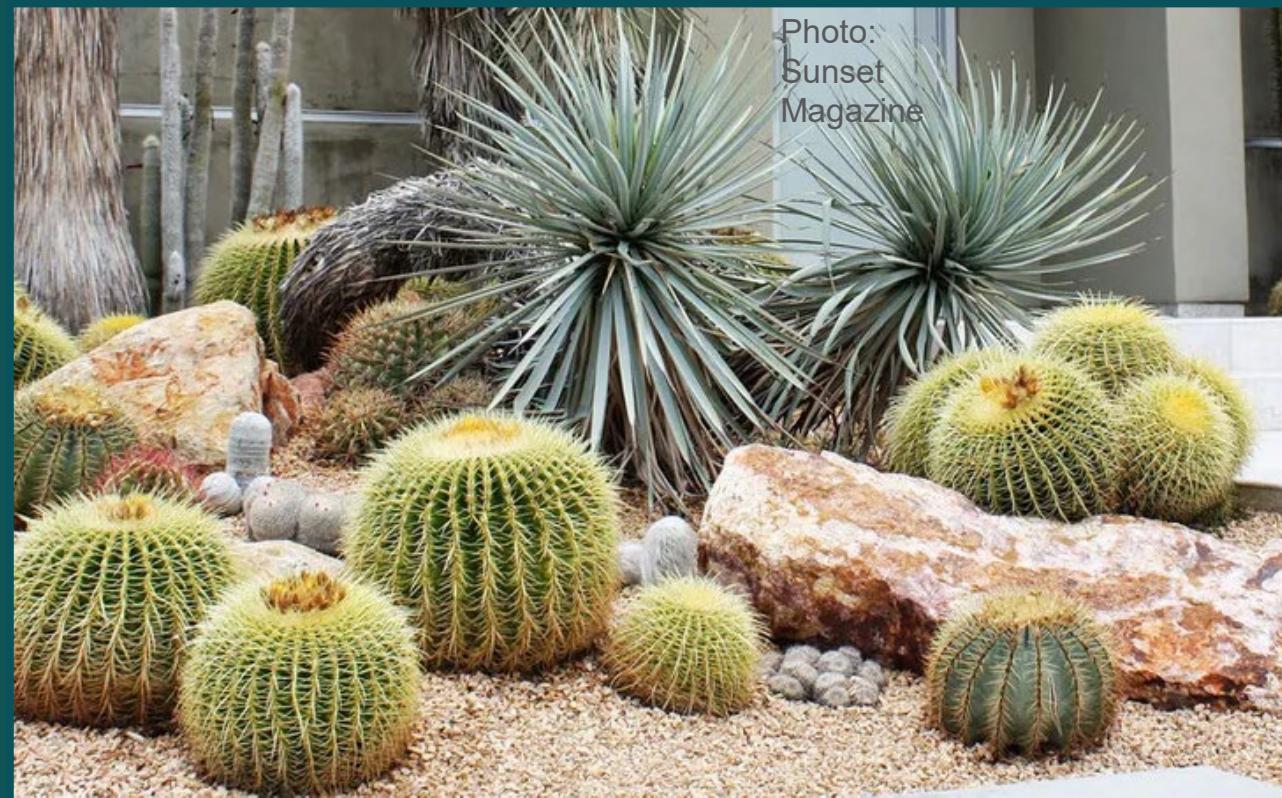
Water-wise or xeric landscaping doesn't have to be...

Photo: Ms. Bartels,
Pinterest



...all rock

Photo:
Sunset
Magazine



...or all cactus



Photo: Audobon Rockies Habitat Hero
Winner, 2015 – Evergreen, CO



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER





COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo credit: J&S
Landscape in Longmont, CO



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo:
Better
Homes &
Gardens



Photo: City
of Boulder
Twitter



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo: Pinterest -
greggosgarden.blogspot.com



Photo: Pinterest -
Foursquare.com





Photo: Lauren
Springer Ogden



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo: Lauren Springer Ogden



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Water Wise Design (Xeriscape)



Aurora Xeriscape Demonstration Garden

How to Xeriscape - Based on Sound Horticultural Practices

*Follow these steps for a water-wise, yet beautiful,
landscape. [PDF available](#).*

1- Plan Ahead

2- Improve the Soil

3- Limit Turf Areas

4- Irrigate Efficiently

5- Select Appropriate Plants

6- Use Mulch

7- Maintain It

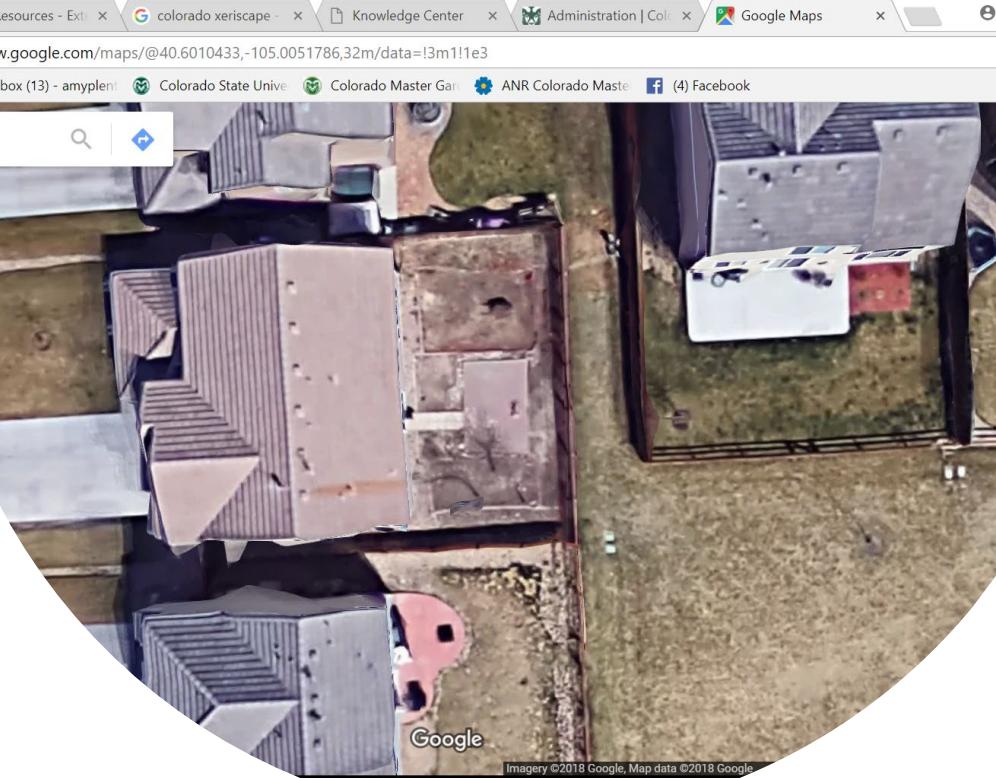


Photo: Google Maps
Gardening Solutions - University of Florida

Step 1 - Plan Ahead

- Look at the area's topography, exposure and soil.
- Don't try to fight your site; work with it.
- Create a scaled drawing of the lot, including buildings and walks.
- Identify sunny and shady areas, slopes and views.
- Group plants with similar water needs to make watering easier.

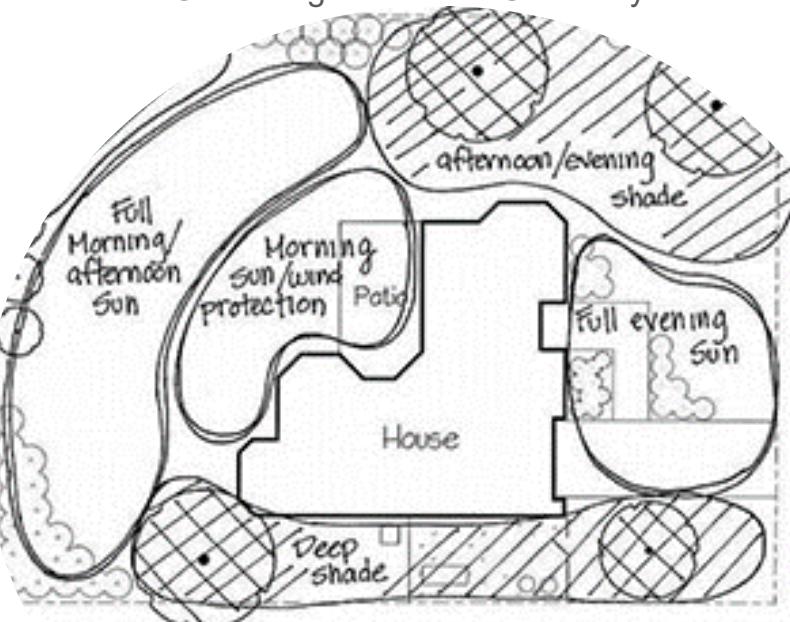




Photo: Kelly Grummons, courtesy of Plant Select



Photo: Bolderscapes
Landscaping



Photo: Colorado
Waterwise

Step 1 - Plan Ahead

- Do kids and pets need a big open area? Is a large deck for entertaining important? Walkways? Garden?
- Budget

Step 2 - Improve the Soil

- Going **native**? Many native plants actually prefer un-amended or only slightly amended native soil that is fairly low in organic matter. Many water-wise plants also prefer un-amended soil.
- Consider getting a soil test to determine nutrient content.
- *Choosing a Soil Amendment – CSU Fact Sheet #7.235*





Step 3 - Limit Turf Areas

- Confine the lawn to high traffic areas and areas where it will be used.
- Kentucky bluegrass requires 24-26" of supplemental irrigation in a normal precipitation year.
- Shrubs, perennials and groundcovers use less water and provide a cool, green appearance.

Photo: City of
Rio Rancho



Photo:
McCumber
Fine Gardens





Step 3 - Limit Turf Areas

- Use walkways, decks or patios in place of turf in high foot traffic areas.
- Consider other grasses, knowing the look and growing conditions may be different.
- Place mulch around driveways or as paths.

Photo: City of Rio Rancho



Photo:
McCumber
Fine Gardens





Photo: flickr.com via
Patrick Standish



Photo: Amy Lentz, CSU



Photo: CoyoteGulch.blog

Step 3 - Limit Turf Areas



Step 4 - Irrigate Efficiently

- Grass: use low-volume, low-angle sprinklers.
- Trees, shrubs, flowers and ground covers: use drip, spray or bubbler emitters.
- Adjust your watering times monthly to meet seasonal needs.



Step 4 - Irrigate Efficiently

- Install a rain shutoff device.
- Water deeply and infrequently to develop deep roots.
- Water between 9 p.m. and 8 a.m. to reduce water loss due to evaporation (dusk until dawn).



Even the
lowest water-
using
Xeriscape
needs
supplemental
water during
extended
hot, dry
periods.



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER

Step 5 - Select Appropriate Plants

- Local nurseries carry trees, shrubs, perennials and groundcovers that are low water-using.
- Zone together plants with similar water and sunlight needs.
- Natives are well-adapted to use less irrigation.



Step 5 - Select Appropriate Plants

- Install a variety of plants with different heights, colors and textures.
- Choose plants for their seasonal interest, including fall color and/or interesting berries, bark or seed heads.
- Check out water-wise plant lists from various





Step 5 - Select Appropriate Plants



COLORADO STATE UNIVERSITY
EXTENSION



Treasure Island Demonstration Garden
Windsor, CO



Photo:
Amy Lentz,
CSU



COLORADO STATE UNIVERSITY
EXTENSION



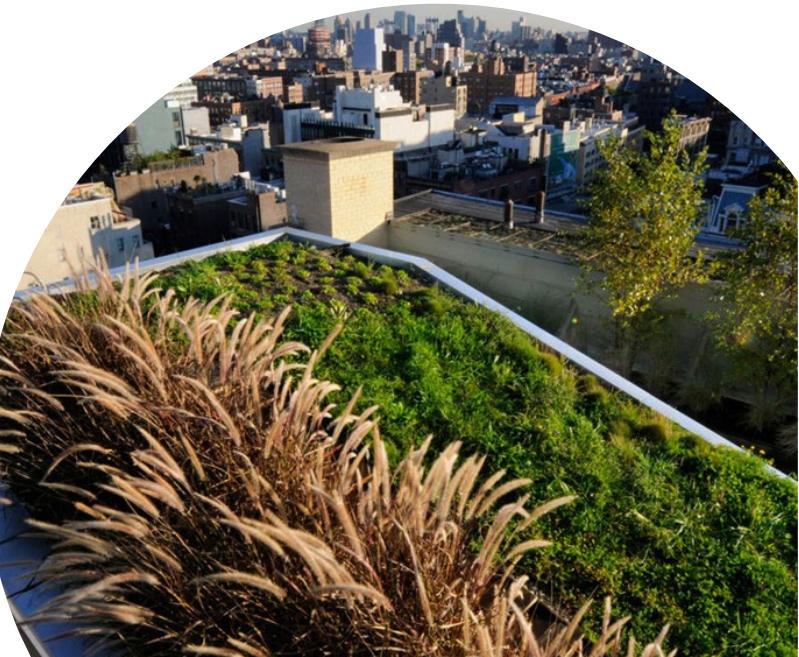
COLORADO
MASTER
GARDENER



Step 5 - Select Appropriate Plants

The Urban 'Jungle'

- Plant diversity is imperative! Otherwise, you have a sterile environment with only a few species.
- We all need a home, including wildlife and pollinators!!
- Urbanization leads to a loss of habitat for animals and insects.
- Pollinators are critical to food production ~70% of crop plants rely on pollinators
- What do they need?
 - Food
 - Water
 - Shelter
 - Space





Step 5 - Select Appropriate Plants

How can you increase habitat?

- Keeping honeybees is not the answer!
- Providing forage and habitat is!
- Utilizing native plants will help create habitat for native insect species
- Most CO native plants are water-wise, too!





Step 5 - Select Appropriate Plants

Choosing Native Plants

- Lower water needs
- Lower fertilizer needs
- Lower maintenance
- Attract pollinators
- Support native bees, insects, and birds
- Support diversity in the landscape plant species
- Wide range of bloom colors, texture, and great “stories”

Penstemon grandiflorus
(Large Beardtongue)



Photo: Wildflower.org

Step 5 - Select Appropriate Plants

Establishing Native Plants

- Source of water
- Water first year to establish
- Future years, before watering, check moisture levels by using a long screwdriver inserted into the soil or moisture meter
- Do not amend soil
- Weed frequently to allow plants to become established

Gaillardia aristata
(blanket flower)

Native Plants!!!

A 2002 study in Colorado Springs compared water use between traditional and xeric landscapes

- Water savings ranged from 15-63%
- Native plants often top the xeric plant lists
- Natives – fewer resources, support local fauna

Photo: Colorado Mountain Gardener





Step 6 – Use Mulch

- Cover planting areas with 2-4 inches of mulch
- Conserves soil moisture, control weeds and adds interest to the landscape
- Bark chips, shredded wood chips or pole peelings decompose and improve soil texture
 - Need to be restored from time to time





Step 6 – Use Mulch

- Rock and gravel mulches are practical in windy spots and unplanted areas.
- Landscape fabric?
- Do not use black plastic; it prevents air and water from reaching plant roots.





Photo: Jake's Designs

Mulch for Water Conservation

- Improves soil
- Protects plants
- Helps inhibit weeds
- Can reduce irrigation needs by as much as **50%**



Mulch for Water Conservation

Types

- Organic (wood, bark chips, straw, grass clippings)
- Inorganic (gravel, rock)
- Ideally
 - Will not compact
 - Does not hinder water and air
 - Breaks down slowly
 - Help regulate soil temp
 - Help prevent soil erosion



Grass Clippings



Bark



Pine needles



Straw



Wood Chips



Gravel



Mulch for Water Conservation

Application

- Any time of year
- Organic – 3-4 inches
- Inorganic – 1-2 inches
- Leave space around base of trees!!
(mulch wide, not deep)
- Don't use plastic under mulch
- Landscape fabric ineffective over time

Mulch Volcano - BAD



Photo: yourgreenpal.com

Proper Mulching



*** For more information: CSU Fact Sheet
7.214 – Mulches for Home Grounds***



Photo: Jake's Designs

Step 6 - Use Mulch

Use different mulches for different planting areas to add texture and interest to your design.

Step 7 - Maintain It

Even xeriscapes
need regular,
seasonal
maintenance to
preserve their
beauty.





Step 7 - Maintain It

Winter: Prune deciduous trees and late-blooming shrubs. Water roots of plants if no recent precipitation. Cut back ornamental grasses and perennials.

Spring: Aerate lawns and check sprinkler systems, amend soil as needed.





Step 7 - Maintain It

Summer: Weed and deadhead flowers.

- Mow grass when it is about 1/3 higher than the desired height. Keep a high mowing height throughout the season (3-4 inches).
- Leave clippings to recycle nutrients into the soil.





Photo: North Carolina State University



Photo: Iowa State University

Step 7 - Maintain It

Fall:

- Conduct soil tests
- Mulch around tender plants prior to winter weather
- Cut back spent perennials or leave for winter interest
- Plant spring blooming bulbs





Water Harvesting

*Active
and
Passive*



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



- Storage container with sealable lid
- Located above ground, outside of a residential home
- Used for collecting precipitation from a downspout or rooftop
- Only single-family homes or multi-family units with up to 4 units
- Up to two rain barrels with a combined storage of 110 gallons MAX per building
- Water must be used on the same property that it is collected on and must be used outside

Rain Barrels – Active Water Harvesting





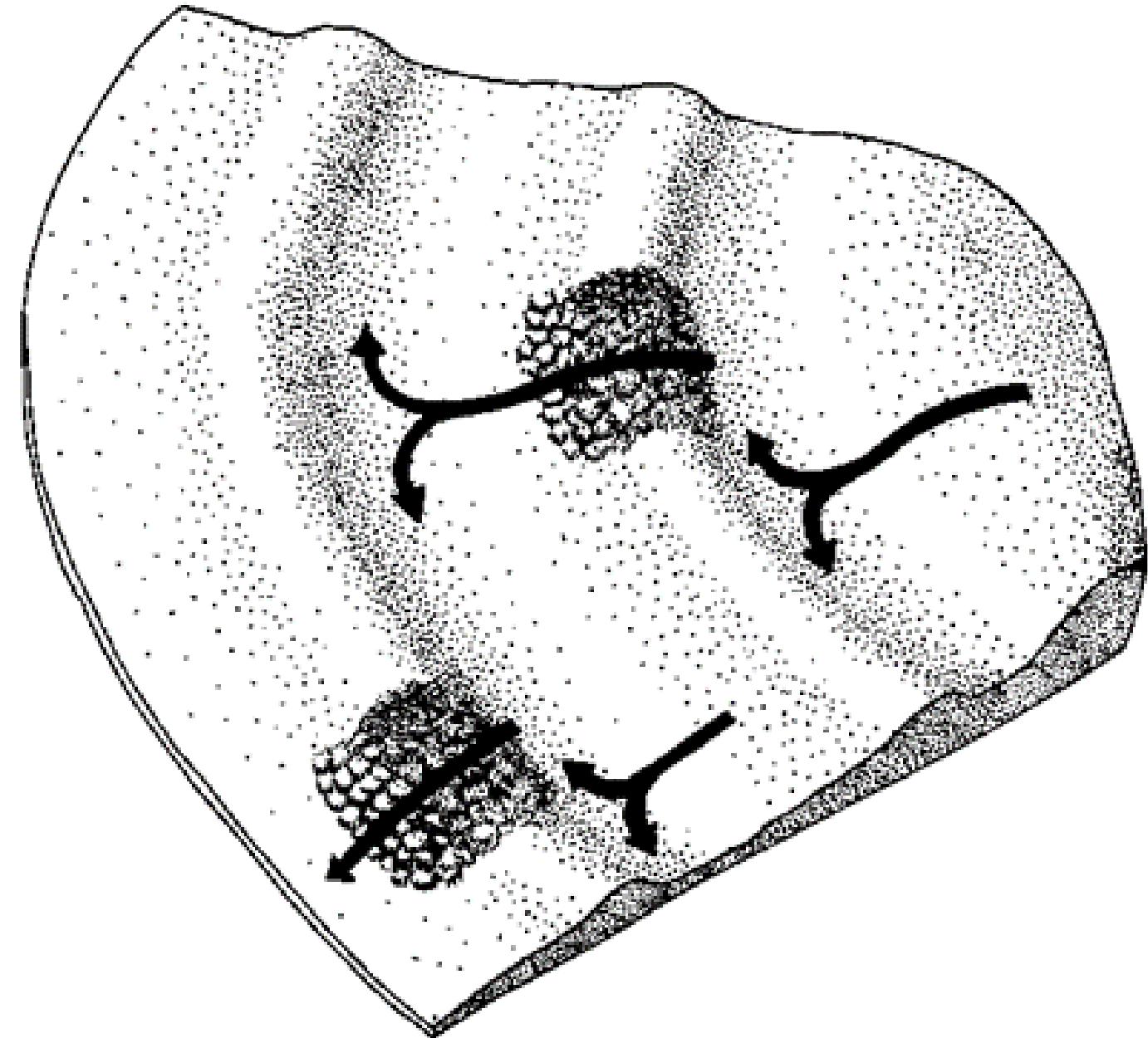
- Water and money savings depends on several factors – total precipitation, size of rooftop, hydrology, water-use of plants, size of area to water
- 110 gallons of water will cover an area of 180 square feet with 1 inch of water
- Rainwater is a softer water, lower in salts and unchlorinated



Rain Barrels – Active Water Harvesting

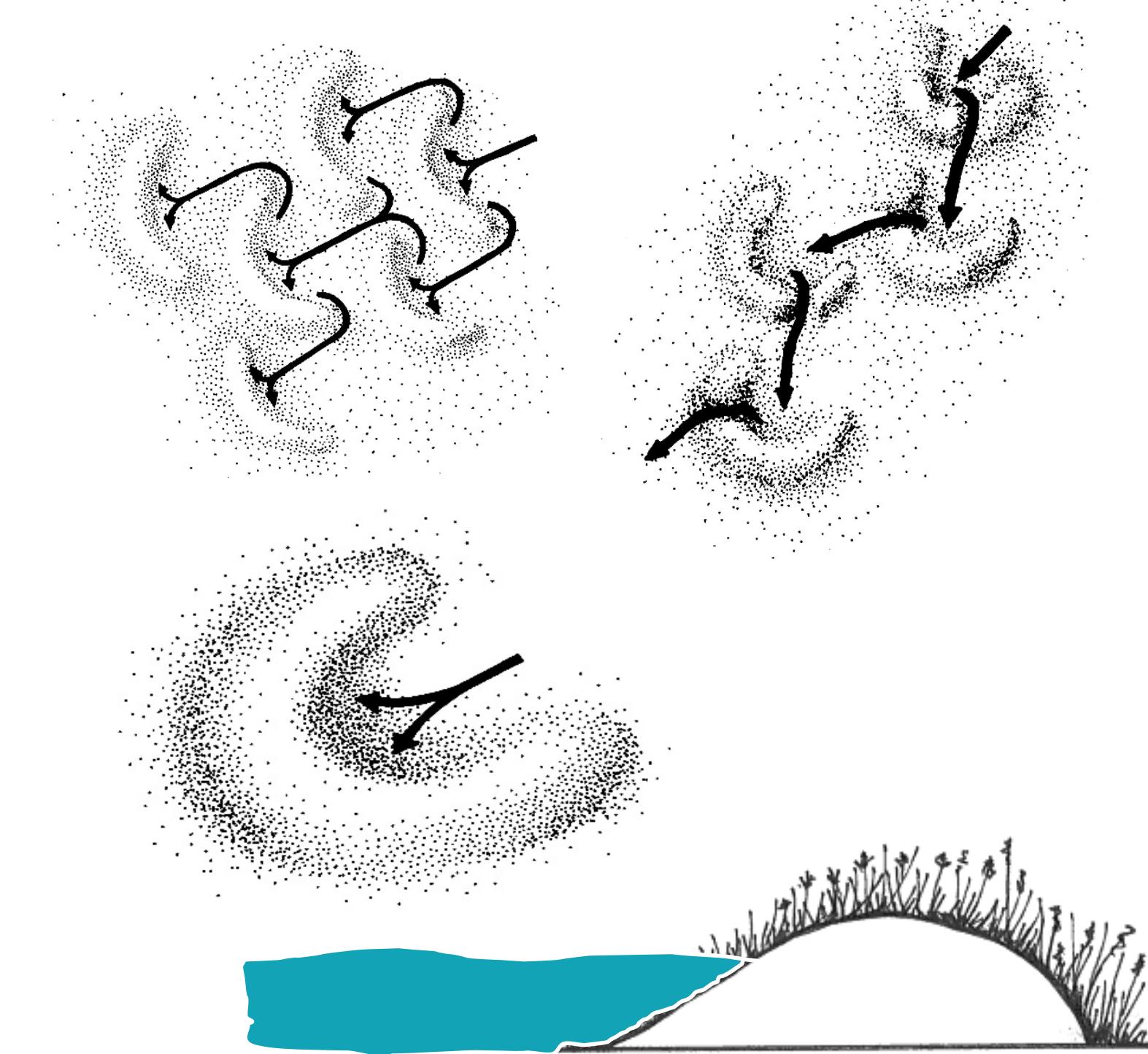
Passive Rainwater Collection

- Passive = divert water overland to vegetated areas for *immediate* use
- “Slow it, spread it, sink it”
- Integrated into landscape
 - **Swales – spreads horizontally on contours**
 - Berms (microbasins)
 - French Drains
 - Bioinfiltration Gardens



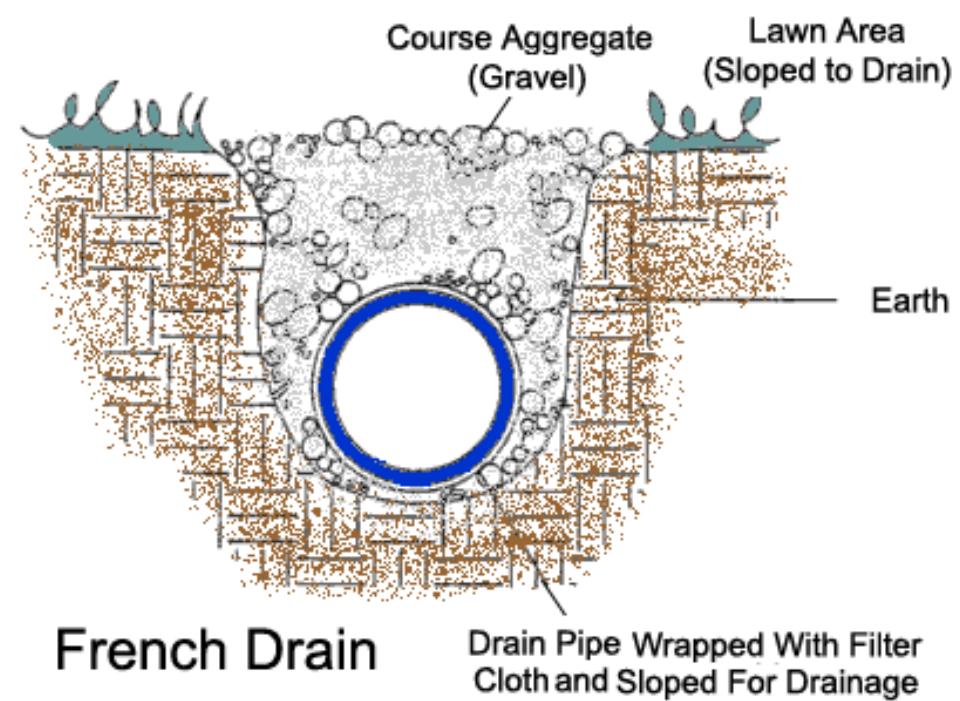
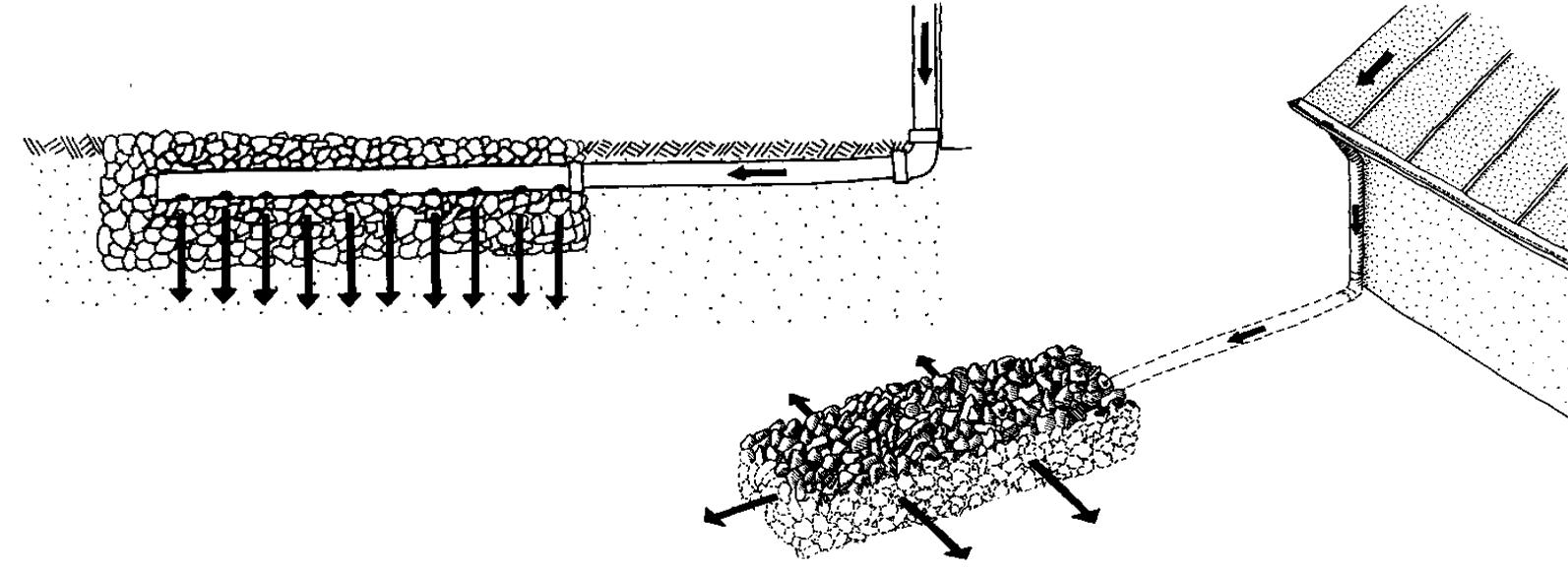
Passive Rainwater Collection

- Passive = divert water overland to vegetated areas for *immediate* use
- “Slow it, spread it, sink it”
- Integrated into landscape
 - Swales – spreads horizontally on contours
 - **Berms (microbasins)**
 - French Drains
 - Bioinfiltration Gardens



Passive Rainwater Collection

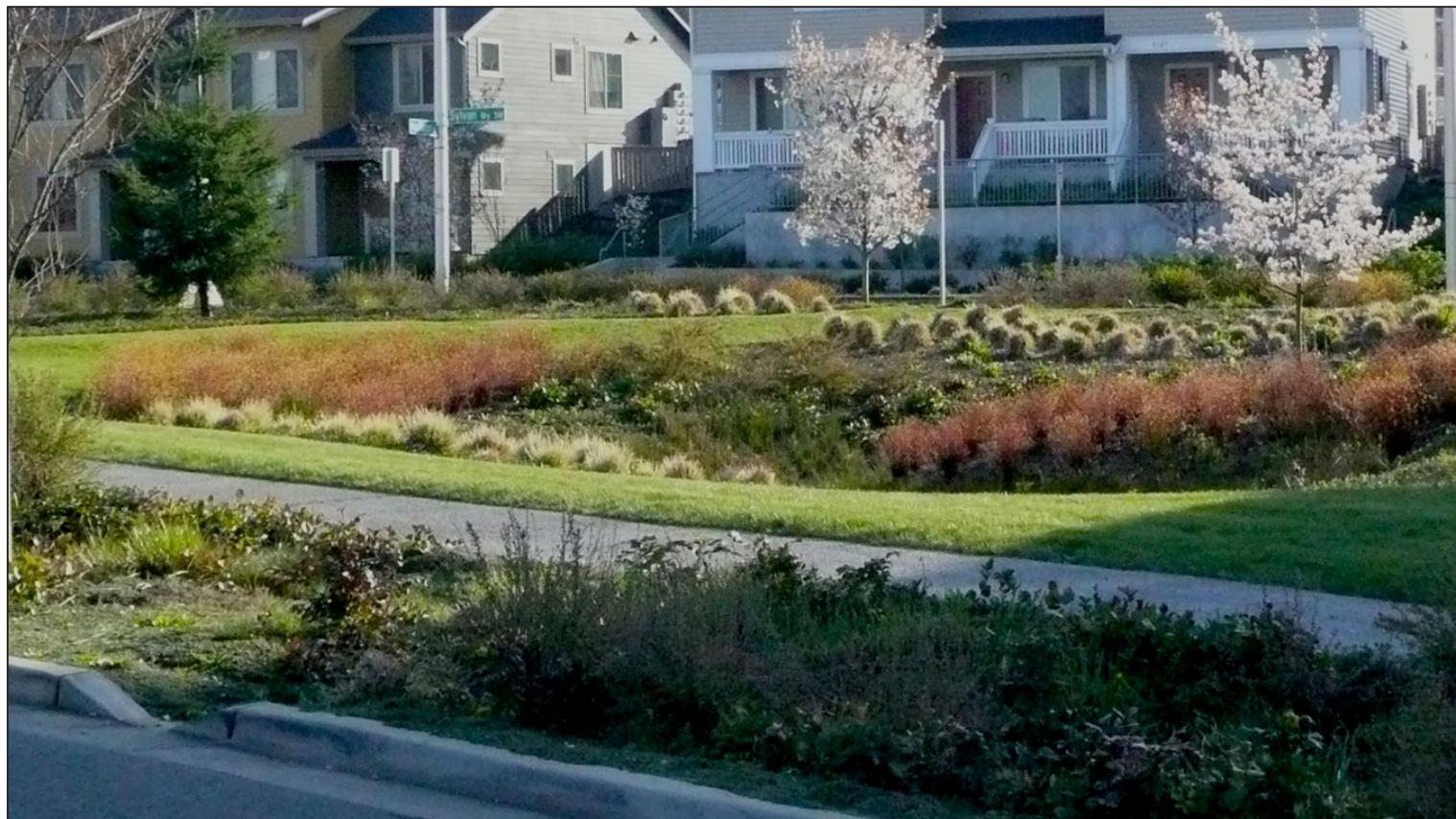
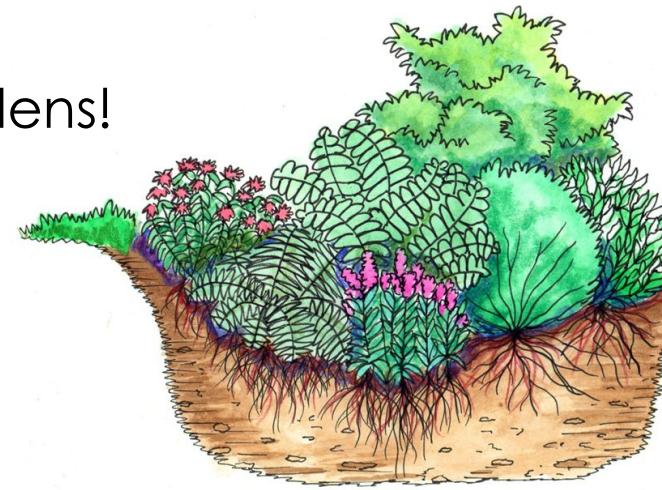
- Passive = divert water overland to vegetated areas for *immediate* use
- “Slow it, spread it, sink it”
- Integrated into landscape
 - Swales – spreads horizontally on contours
 - Berms (microbasins)
 - **French Drains**
 - Bioinfiltration Gardens



Passive Rainwater Collection

- Passive = divert water overland to vegetated areas for *immediate* use
- “Slow it, spread it, sink it”
- Integrated into landscape
 - Swales – spreads horizontally on contours
 - Berms (microbasins)
 - French Drains
 - **Bioinfiltration Gardens**

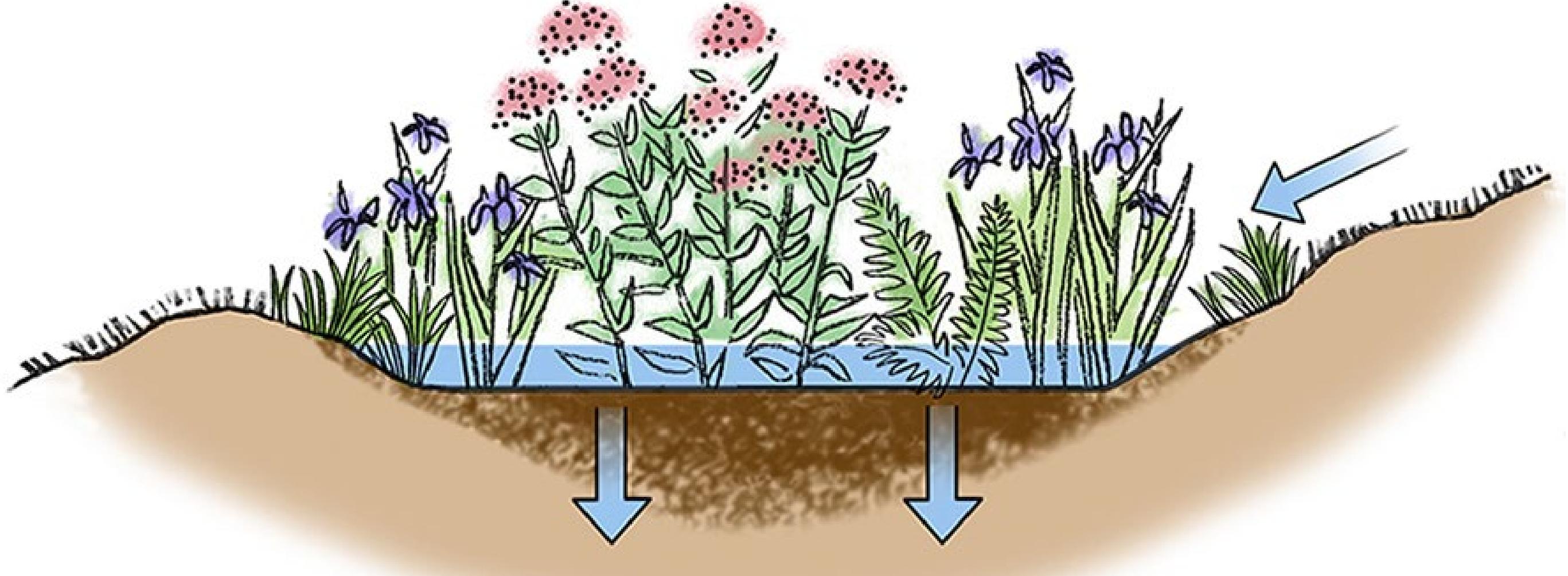
Bioinfiltration Gardens
=
Rain Gardens!



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



How to Plan Your Rain Garden

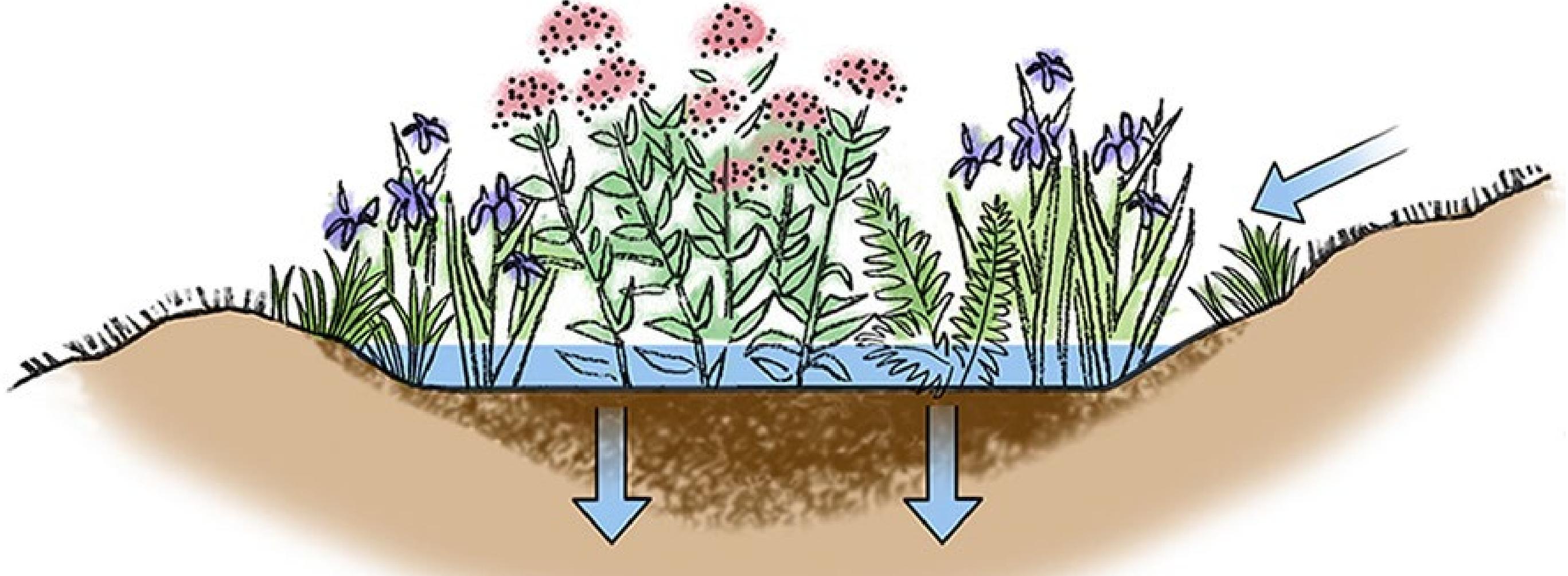
- AVOID underground utilities! (water/electric, septic, gas)
 - Call 811 (free)
- Minimum 10 feet from house
- Minimum 25 feet from septic system



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



How to Plan Your Rain Garden

- Do not place directly under trees
- Steep slopes are not ideal
- Consider where overflow will go (neighbor's yard, street OR into another rain garden)



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER

How to Plan Your Rain Garden



- Locate in an area where rainwater runoff naturally occurs
- Plan your garden like a river flows: *follow the path of least resistance*
 - Downspout
 - Driveway/sidewalk



How to Plan Your Rain Garden

- Locate in an area where rainwater runoff naturally occurs
- Plan your garden like a river flows: *follow the path of least resistance*
 - Downspout
 - Driveway/sidewalk





Passive Rainwater Collection

photo by Austin

Water-wise Plant Selections



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Xeric Tree and Shrub Selection

- Selection based on adaptation to Colorado's climate and the ability to prosper in reduced water situations
- Assess site soil, drainage and exposure before selecting trees and shrubs
- Apply adequate water during the first years of plant establishment, then gradually reduce irrigation
- Woody plants are a long-term investment!



Xeriscaping: Trees and Shrubs
- CSU Fact Sheet #7.229



Photo:
Columbia
Daily Tribune

Deciduous Trees



Kentucky Coffee Tree

Gymnocladus dioicus

Kentucky Coffee Tree

- May be male or female
- Interesting winter form
- Yellow fall color
- Mature size (H x W) - 50' x 40'
- Tree shape is variable
- Slow growth rate
- Low soil moisture
- Plant in full sun, adaptable to wide variety of conditions





Russian Hawthorn

Crataegus ambigua



Photos: Tree Farm





Photo: Urban
Forest
Ecosystems
Institute

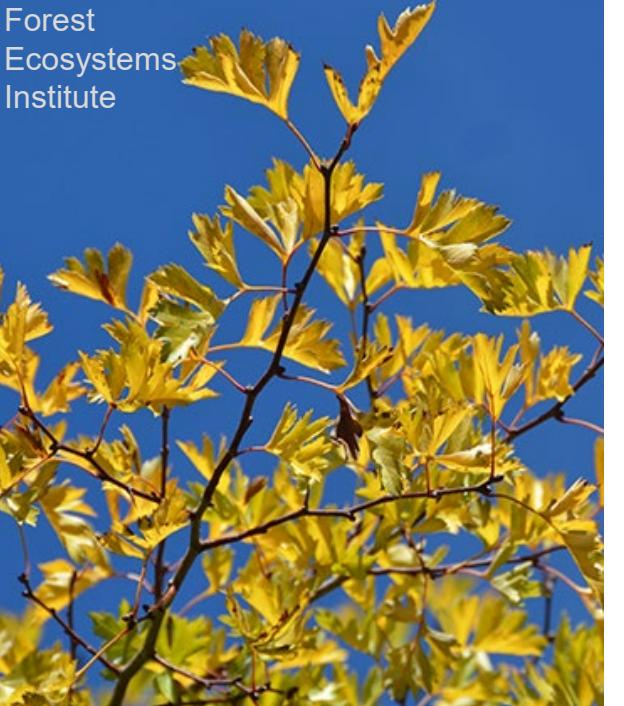


Photo: UC, Berkeley



Photo: Urban Forest Ecosystems Institute

Russian Hawthorn

- Small, deciduous tree
- Mature size (H x W) - 20 x 15
- Tree shape - Upright, spreading
- Medium growth rate
- Low soil moisture
- Full sun to part shade



Bigtooth Maple



Photos: Upshoot, LLC

Xeriscaping: Trees and Shrubs
- 7.229



Photo: Blue Heron Farm

Bur
Oak



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Evergreen Trees



Pinyon Pine

Pinus edulis

- Native pine
- Mature size (H x W) - 20' x 15'
- Tree shape – Conical to rounded
- Slow growth rate
- Low soil moisture
- Not suited for frequently watered lawn areas



Pinus aristata Bristlecone pine

- A Colorado native
- Five-needle pine
- Very slow growing
- Hardy to 11,000 feet
- Resin dots on needles – key ID feature
- Very tolerant of most soil types
- Do not overwater
- Plant in full sun
- Because of the slow growth rate, they are perfect for rock gardens
- Methuselah, a bristlecone pine, is the oldest tree in the world





Junipers!



Rocky Mountain Juniper



Woodward Columnar Juniper



Wichita Blue Juniper

Photo: Monroe

...and
many,
many
more!



COLORADO STATE UNIVERSITY
EXTENSION





Deciduous Shrubs



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Skunkbush Sumac, Three-leaf Sumac

Rhus trilobata



Photo: Lower Platte South NRD



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER

Skunkbush Sumac, Three-leaf Sumac

- Native deciduous shrub
- Grows at elevations of 3500 to 9000 feet
- Orange to red fall color
- Arching branches
- Low water use



Photo: Plant Select



Pawnee Buttes® sandcherry

Prunus besseyi 'P011S'

- A Colorado native
- Shrubby groundcover
- Drought-tolerant and tough as nails
- 2 feet tall by 6 feet wide





Pawnee Buttes® in summer



Pawnee Buttes® Fall Color



Rabbitbrush

Chrysothamnus nauseosus

- Native, but cultivars are available (yellow twig, baby blue)
- Mature size varies: 1-3 feet tall, 2-3 feet wide for baby blue, others are 5-6 feet tall and wide – check cultivars
- Flowers late summer
- DEER RESISTANT
- Attracts bees and butterflies



Photos: Colorado Springs Utilities



Photo: wyoextension.org





Photo: Clearwater Designs Ltd.



Blue Mist Spirea



Cheyenne Privet



Wayfaring
Tree
Viburnum

Photos: ArborTomics Inc.





Evergreen Shrubs



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER

Juniper species

- Hardy
- Versatile
- Drought Tolerant
- Many varieties



Juniper species



Broadmoor – dense, mounding dark green form

Arcadia - bright green foliage on a flat top form

Pfitzeriana Compacta - silver-blue foliage with wide spreading growth habit

...and so, so many more!

Oregon grapeholly

Mahonia repens or
M. aquifolium

- A broadleaf evergreen, that looks a lot like holly
- One of the few evergreens that can tolerate shade
- Very drought tolerant once established



Photo: Monrovia



Mahonia flowers,
fruit and fall color

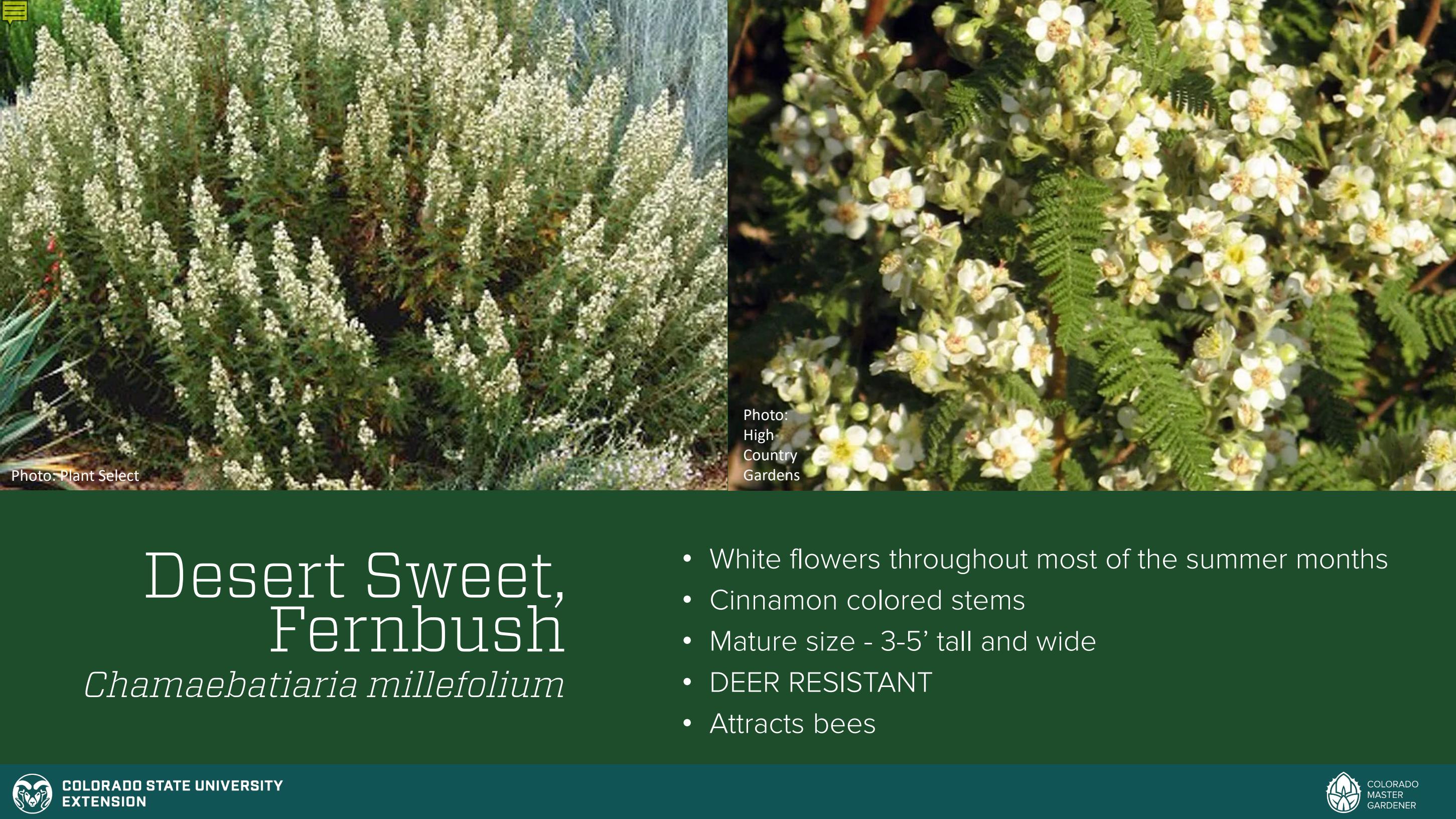




Desert Sweet, Fernbush

Chamaebatiaria millefolium

- White flowers throughout most of the summer months
- Cinnamon colored stems
- Mature size - 3-5' tall and wide
- DEER RESISTANT
- Attracts bees





Panchito manzanita

- Pink flowers
- Low growing spreading shrub
- Evergreen
- Mature Size - 12-24" tall, 18-48" wide
- Water to establish, then reduce water in subsequent years
- Low maintenance





HIGH COUNTRY
GARDENS



COLORADO STATE UNIVERSITY
EXTENSION

Perennials





Penstemon

- Most bloom in late spring and early summer, different foliage types and flower colors.
- 1 to 3 feet tall, depending on cultivar.
- More than 250 varieties (*not all hardy in CO so buy local*).
- Hummingbirds
- Tend to be **DEER RESISTANT**
- Does better in sandy soils with lower fertility, even gravelly soils
- Full Sun

Pikes Peak Purple® Penstemon



Pineleaf Penstemon



Rocky Mountain Penstemon



Firecracker Penstemon



Coral Baby® Penstemon

Penstemon (also known as beardtongue)



Mohave Sage

Salvia

(ornamental sages)

- Mint family
- Will handle clayey soils if well drained, also sand and loam – wide range of soil types
- Do not overhead water, keep on the dry side
- Attractive to bees, tend to be **DEER RESISTANT**
- Tons of different types and colors!



Photo: Blue Stone Perennials



Photo: Houzz



Photo: Conservation Garden Park

Salvia (ornamental sages)



May Night Salvia

Salvia argentea (silver sage)



Hyssop

Agastache sp.

- In the mint family, but not invasive
- Likes a sandy soil, okay with hot and dry sites – need good air circulation bc of downy mildew
- Cut back in late spring, leave plants standing through winter.
- Tends to be **DEER RESISTANT**
- Attractive to bees, butterflies, moths and hummingbirds

Coronado® Hyssop

Photo: Plant Select



COLORADO STATE UNIVERSITY
EXTENSION





Sonoran Sunset® Hyssop



Blue Hyssop

Hyssop

Agastache species

- Varying fragrances, such as bubblegum and anise
- Water very rarely once established

Use a mix of penstemon, salvia, and hyssop for color throughout the growing season!

- Considered “short lived”
- May reseed

‘Summer Love’ hyssop

‘Blue Fortune’



Photo: Walters Gardens

Photo: Home Depot



‘Apache Sunset’

Photo: Plant Select



Coronado Red® hyssop



Photo: Monrovia



COLORADO STATE UNIVERSITY
EXTENSION



Ice Plant

Delosperma species

- Easy to grow
- Mats of small succulent green leaves with star-shaped flowers
- 3 foot spread, 6-12 inches in height
- Rock gardens, path edges
- Low water
- Well-drained soils



Photo: High Country Gardens



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo: High Country Gardens



Photo: Conservation Garden Park

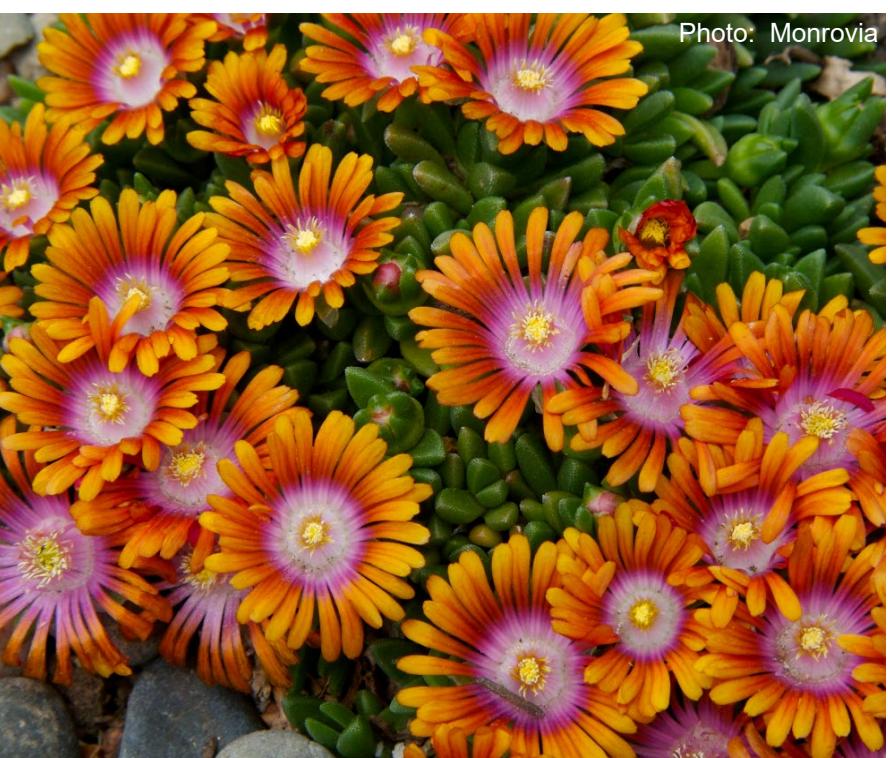


Photo: Monrovia



Photo: High Country
Gardens

Ice Plant

Delosperma species

- Lots of choices:
- *D. nubigenum* (Hardy yellow ice plant)
- *D. basuticum* 'Gold Nugget'
- 'Mesa Verde'
- 'Firespinner'
- 'Alan's Apricot'
- Granita® Raspberry

Ground Covers



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Wholly Thyme – *Thymus lanuginosus*

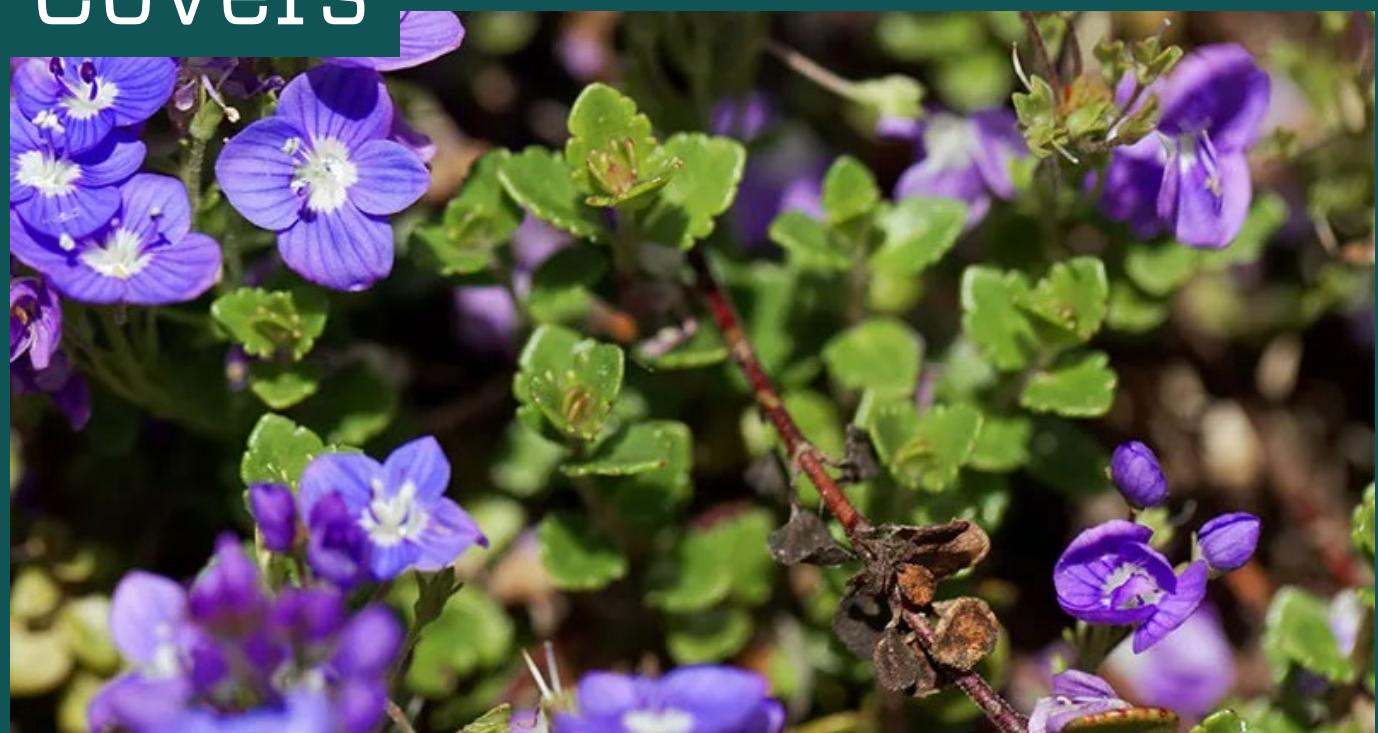


Photos: Epicgardening.com - patrick_standish

Ground Covers



Turkish Speedwell – *Veronica liwanensis*



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Prairie Natives



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Prairie Natives



Photos: High Country Gardens



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER

Prairie Natives



Photo: High Country Gardens



Purple Coneflower (*Echinacea purpurea*)



Indian Blanket (*Gaillardia pulchella*)



Photos: Colorado State Forest Service



COLORADO STATE UNIVERSITY
EXTENSION



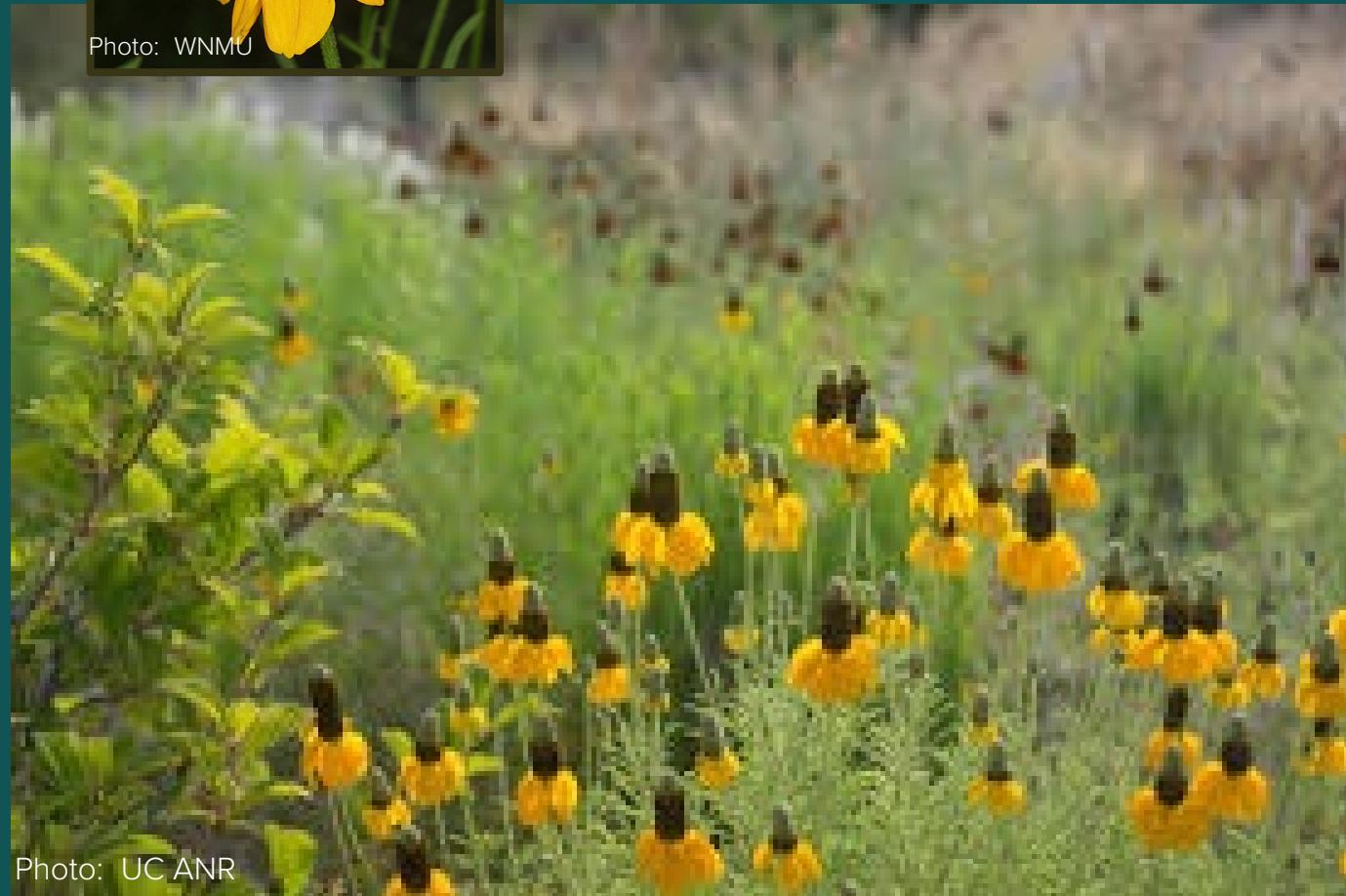
COLORADO
MASTER
GARDENER



Prairie Natives



Mexican Hat (*Ratibida columnifera*)



Purple Prairie Clover (*Dalea purpureum*)

Ornamental Grasses



Photo: Ciaran Burke, Blooms 'n' Food blog



Little Bluestem

Schizachyrium scoparium

- Warm season
- Green to blue-green to blue clumps
- 2 to 3 feet tall
- Fluffy, white seed plumes
- Native best grown in clay soils
- Tolerates light shade
- Drought tolerant
- Plant up to 7,500 ft. in elevation

Photo: Grasstalk Blog



Little Bluestem

‘Standing Ovation’ – Great Fall Color!



Photo: Plant Select



Photo: High Country Gardens

Blonde Ambition Blue Grama Grass

Bouteloua gracilis 'Blonde Ambition'

- A clump-forming grass, 30-36" tall and wide
- Hardy, native grass
- Use in unirrigated areas – drought tolerant
- All soils
- Shade intolerant
- Plant at elevations up to 9,500 ft.



Switchgrass

Panicum virgatum

- Many ornamental introductions
- Up to five feet tall
- Some selections have great fall color
- Warm season—will green up in late spring

Dallas Blues Switchgrass

Switchgrass

- Doesn't lodge (fall over) in winter, so great for winter interest
- Dense, upright form
- May get red or yellow fall color, depending on cultivar



Heavy Metal Switchgrass



Shenandoah Switchgrass

Switchgrass cultivars

- Heavy Metal
- Shenandoah
- Cloud Nine
- Dallas Blues
- **Northwind**
- Prairie Sky
- Prairie Fire



Photo: NWA Plants Inc.



Succulents

Turquoise Tails blue sedum



Succulents, cacti and more...

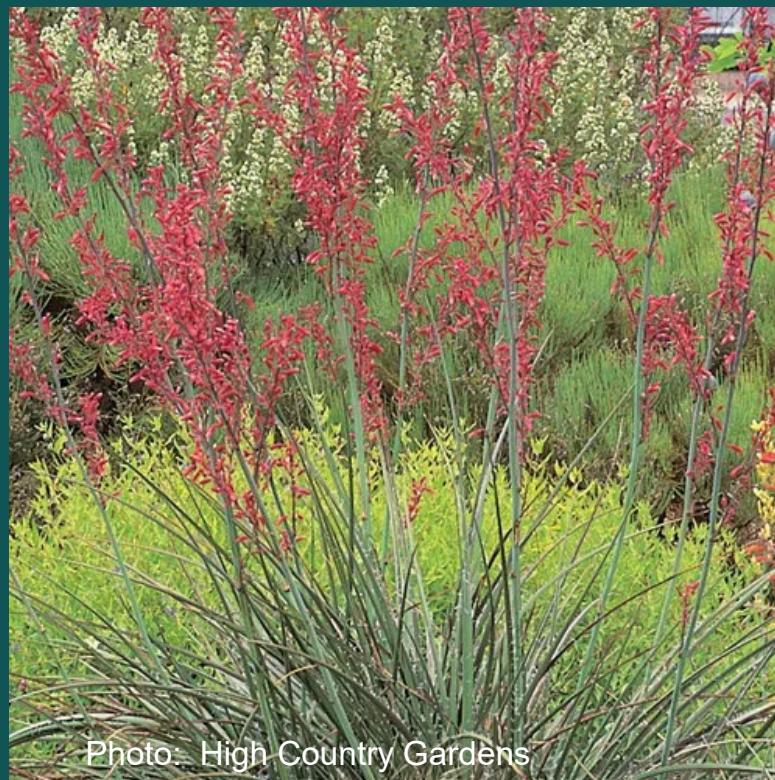
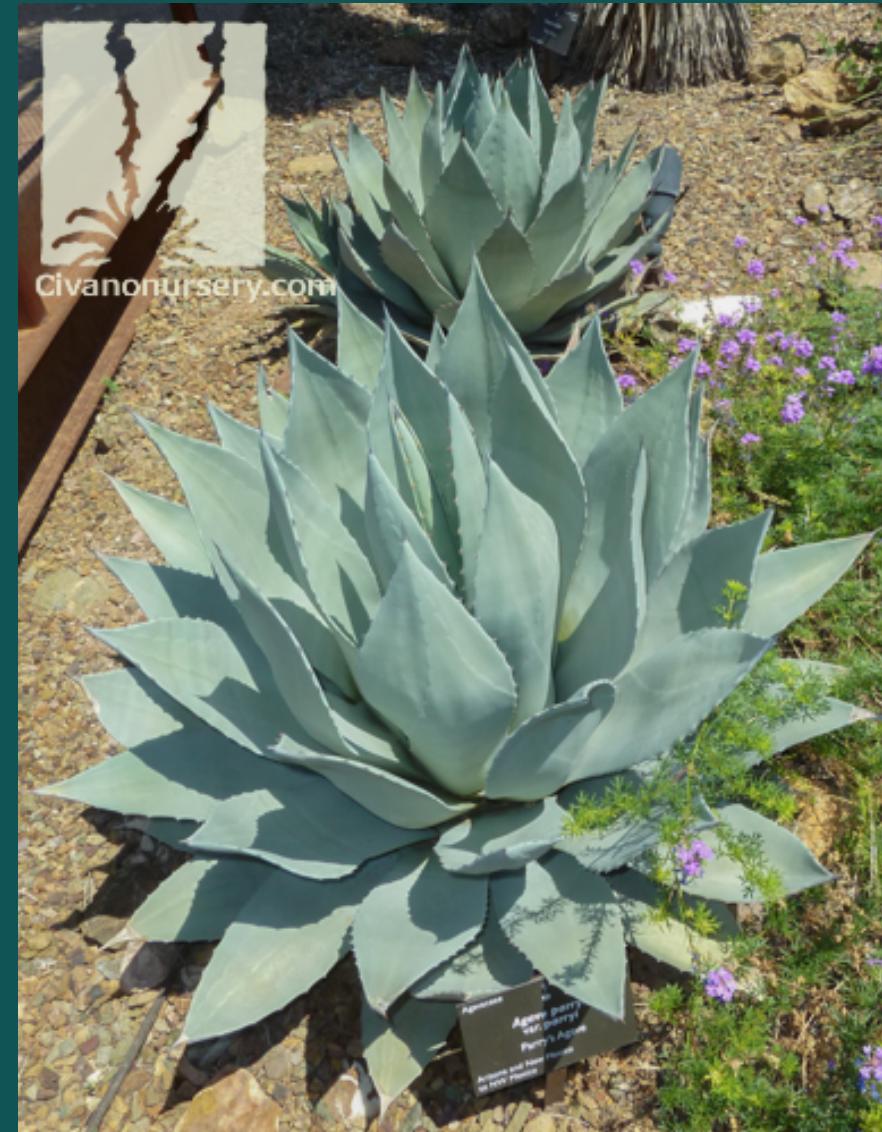


Photo: High Country Gardens

Red Yucca



Parry's Agave

Prickly Pear Cactus



Photo: Colorado Mountain Gardeners



Photo: NDSU

Hen and
Chicks



COLORADO
MASTER
GARDENER



COLORADO STATE UNIVERSITY
EXTENSION



Photo: Audobon Rockies Habitat Hero
Winner, 2015 – Evergreen, CO



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER





COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo credit: J&S
Landscape in Longmont, CO



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo:
Better
Homes &
Gardens



Photo: City
of Boulder
Twitter



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo: Pinterest -
greggosgarden.blogspot.com



Photo: Pinterest -
Foursquare.com





Photo: Lauren
Springer Ogden



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Photo: Lauren Springer Ogden



COLORADO STATE UNIVERSITY
EXTENSION



COLORADO
MASTER
GARDENER



Water Wise Design (Xeriscape)

Additional questions and comments?

[Place your county's Colorado Master Gardener contact information here]

CO-Horts blog:
csuhort.blogspot.com

CSU Extension website:
extension.colostate.edu

