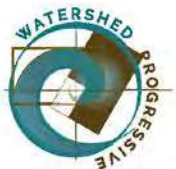




CLIMATE APPROPRIATE PLANTING

- CAP-1 | Design and Installation Checklist
- CAP-2 | Plant Palette for Tuolumne County



Climate Appropriate Planting Design and Installation Checklist



Climate Appropriate Planting is selecting native, low-water use, and drought tolerant plant species to replace existing high water use, invasive, and exotic plant species or when planting new landscapes. Climate Appropriate Planting uses much less water and provide much more ecological benefit in comparison with traditional landscaping. Climate Appropriate Plants require little or no irrigation once established.

1. Feasibility & Design

- ✓ **Remove high water use existing landscape:** remove lawn and other species that require a lot of irrigation.
- ✓ **Consider microclimates:** Observe your site. Which areas get sun or shade? Where are steep slopes or wetter drainages? What are the soil conditions?
- ✓ **Select plants:** choose plantings that are well suited for microclimates and site goals (sun/shade, screening, erosion control, pollinator habitat, etc.). These plants can be incorporated into your ornamental landscape and look beautiful!
- ✓ **Consider ecological and habitat value:** many native plants provide critical habitat as food and shelter.
- ✓ **Plant native and flowering pollinator plant species:** many native and flowering plants provide critical pollinator habitat as food and shelter.
- ✓ **Consider climate change:** are these species growing natively in regional locations that are hotter and dryer than your zone? These may be more adapted to future warmer and drier climate trends.



*Climate Appropriate Planting.
Source: Watershed Progressive*

2. Build & Maintain It!

- ✓ **Completely remove lawn and other exotic/invasive species before installing Climate Appropriate Planting.** Maintain weeding when invasive species re-sprout.
- ✓ **Build Soils.** Loosen and amend soils with compost and 3" minimum of mulch cover as needed before planting.
- ✓ **DO NOT use pesticides and herbicides!** These harm pollinator species.
- ✓ **Keep leaves on the ground and postpone pruning and cutting back:** instead of removing in autumn and through winter, leave them behind for pollinating insects to use for their eggs and pupae.

Climate Appropriate Plant Palette for Tuolumne County



Place High Water Use Plants at Low Point in Rain Garden, Medium Water Use on Lower Slopes, and Low Water Use on Edges of Rain Garden (Water Use: = High, = Medium, = Low; = Native, = Edible)

Trees



Aesculus californica
California Buckeye



Cercis occidentalis
Western Redbud



Chilopsis linearis
Desert Willow



Prunus ilicifolia
Holly-leaved Cherry



Quercus agrifolia
Coast Live Oak



Quercus lobata
Valley Oak



Platanus racemosa
Sycamore

Large Shrubs



Arctostaphylos sp.
Manzanita



Fremontodendron californicum
California Flannelbush



Ceanothus sp.
California Lilac



Heteromeles arbutifolia
Toyon



Rhamnus ilicifolia
Hollyleaf Redberry



Frangula californica
Coffeeberry



Sambucus nigra
Black Elderberry

Shrubs



Diplacus/Mimulus aurantiacus
Bush Monkeyflower



Epilobium canum
California Fuchsia



Mahonia aquifolium
Oregon Grape



Lupinus albrifrons
Silver Lupine



Rosa californica
California Wild Rose



Salvia clevelandii
Cleveland Sage



Eriodictyon californicum
Yerba Santa

Perennials



Achillea millefolium
Yarrow



Eriogonum umbellatum
Sulphur Buckwheat



Eriogonum fasciculatum
California Buckwheat



Linum lewisii
Wild Blue Flax



Heuchera micrantha
Crevice Alumroot



Monardella villosa
Coyote Mint



Penstemon heterophyllus
Foothill Penstemon

Wildflowers, Groundcovers, Grasses, and Rushes



Arctostaphylos uva-ursi
Bearberry



Ceanothus 'Joyce Coulter'
Joyce Coulter Mountain Lilac



Eschscholzia californica
California Poppy



Leymus condensatus
Canyon Prince Wild Rye



Juncus patens
California Gray Rush



Muhlenbergia rigens
Deergrass



Salvia "Bee's Bliss"
Creeping Sage

Native Oak Woodland Plant Palette for Tuolumne County



Place High Water Use Plants at Low Point in Rain Garden, Medium Water Use on Lower Slopes, and Low Water Use on Edges of Rain Garden (Water Use: = High, = Medium, = Low; = Native, = Edible)

Trees



Cercis occidentalis
Western Redbud



Quercus agrifolia
Coast Live Oak



Quercus lobata
Valley Oak



Platanus racemosa
Sycamore

Large Shrubs



Arctostaphylos sp.
Manzanita



Ceanothus sp.
California Lilac



Heteromeles arbutifolia
Toyon



Rhus integrifolia
Lemonade Berry



Romneya coulteri
Matilija Poppy



Sambucus nigra
Black Elderberry

Shrubs



Diplacus/Mimulus longiflorus
Sticky Monkeyflower



Epilobium canum
California Fuchsia



Eriophyllum confertiflorum
Golden Yarrow



Rosa californica
California Wild Rose



Trichostema lanatum
Woolly Blue Curls



Rhamnus / Frangula californica
California Coffeeberry

Perennials



Achillea millefolium
Yarrow



Eriogonum fasciculatum
California Buckwheat



Salvia spathacea
Hummingbird Sage



Penstemon heterophyllus
Foothill Penstemon

Wildflowers, Groundcovers, Grasses, and Rushes



Eschscholzia californica
California Poppy



Muhlenbergia rigens
Deergrass

Native Dry Creek Riparian/Shade Plant Palette for Tuolumne County



Place High Water Use Plants Closest to Center of Creek, Medium Water Use on Lower Slopes, and Low Water Use on Edges of Bank
 (Water Use: = High, = Medium, = Low; = Native, = Edible)

Trees



Cercis occidentalis
Western Redbud



Quercus agrifolia
Coast Live Oak



Quercus lobata
Valley Oak



Platanus racemosa
Sycamore



Salix lasiolepis
Arroyo Willow

Pacific Blackberry
Rubus ursinus
Fremontodendron californicum
Flannel Bush

Large Shrubs



Arctostaphylos sp.
Manzanita



Vitis californica
California Grape



Heteromeles arbutifolia
Toyon



Cornus sericea
Red Osier Dogwood



Sambucus nigra
Black Elderberry



Rubus parviflorus
Western Thimbleberry

Shrubs



Diplacus/Mimulus longiflorus
Sticky Monkeyflower



Epilobium canum
California Fuchsia



Eriophyllum confertiflorum
Golden Yarrow



Rosa californica
California Wild Rose



Ribes nevadense
Sierra Currant



Arctostaphylos uva-ursi
Bearberry

Perennials



Achillea millefolium
Yarrow



Eriogonum fasciculatum
California Buckwheat



Sisyrinchium bellum
Blue Eyed Grass



Salvia spathacea
Hummingbird Sage



Penstemon heterophyllus
Foothill Penstemon



Anemopsis californica
Yerba Mansa

Wildflowers, Groundcovers, Grasses, and Rushes



Linum lewisii
Wild Blue Flax



Ceanothus griseus horizontalis
Carmel Creeper



Eschscholzia californica
California Poppy



Leymus condensatus
Canyon Prince Wild Rye



Juncus patens
California Gray Rush



Muhlenbergia rigens
Deergrass

Native Chaparral Plant Palette for Tuolumne County



Place High Water Use Plants at Low Point in Rain Garden, Medium Water Use on Lower Slopes, and Low Water Use on Edges of Rain Garden (Water Use: = High, = Medium, = Low; = Native, = Edible)

Big Berry Manzanita
Arctostaphylos glauca

Sagebrush (Artemisia californica)

Silver Lupine
Lupinus albifrons

Mountain Mahogany
Cercocarpus betuloides

Large Shrubs



Arctostaphylos sp.
Manzanita



Ceanothus sp.
California Lilac



Heteromeles arbutifolia
Toyon



Rhus integrifolia
Lemonade Berry



Romneya coulteri
Matilija Poppy



Sambucus nigra
Black Elderberry

Shrubs



Diplacus/Mimulus longiflorus
Sticky Monkeyflower



Epilobium canum
California Fuchsia



Eriophyllum confertiflorum
Golden Yarrow



Trichostema lanatum
Woolly Blue Curls

Thickleaf Yerba Santa
Eriodictyon crassifolium

Perennials



Achillea millefolium
Yarrow



Eriogonum fasciculatum
California Buckwheat



Salvia spathacea
Hummingbird Sage



Penstemon heterophyllus
Foothill Penstemon

Wildflowers, Groundcovers, Grasses, and Rushes



Eschscholzia californica
California Poppy



Muhlenbergia rigens
Deergrass

Walkable Groundcovers for Lawn Replacement Plant Palette for Tuolumne County



These Walkable Groundcovers use less water than typical lawns and can be used to replace turf grass when the surface still needs to be walked on or used for recreation. Many of these plants are available as plugs or seeds through mail order if not available in local nurseries. (Water Use: = High, = Medium, = Low)

Low Water Use



S&S Seeds - Blends of Native Grasses and Wildflowers



Achillea millefolium 'Rosea'
Dwarf Pink Yarrow



Carex flacca
Blue Sedge



Dymondia margaretae
Silver Carpet Dymondia



Lippia nodiflora 'Kurapia S1' TM
Kurapia



Ruschia lineolata 'Nana'
Dwarf Carpet of Stars



Sedum album 'Coral Carpet'
Carpet Stonecrop



Thymus praecox 'Coccineus'
Red Creeping Thyme



Thymus pseudolanuginosus
Woolly Thyme



Thymus serpyllum
Elfin Thyme



Thymus 'Victor Reiter'
Reiter Creeping Thyme

Medium Water Use for Wet Areas or Greywater Irrigation



Carex praeegracilis
California Field Sedge



Cerastium tomentosum
Snow-In-Summer



Chamaemelum nobile
Dwarf Roman Chamomile



Chamaemelum nobile 'Treneague'
Dwarf Chamomile



Potentilla neumanniana 'Nana'
Creeping Cinquefoil



Fragaria chiloensis
Beach Strawberry

Resources:

S&S Seeds: <https://www.ssseeds.com/projects-and-announcements/low-water-lawn-alternatives/>

Recommended custom native meadow seed mix from S&S Seeds:

Festuca occidentalis / Western Mokelumne Fescue

Festuca idahoensis / Idaho Fescue

Festuca rubra 'Molate' / Molate fescue

Achillea millefolium SSP. *lanulosa* / Yarrow

Sisyrinchium bellum / Baby Blue Eyes

Eschscholozia californica / California Poppy