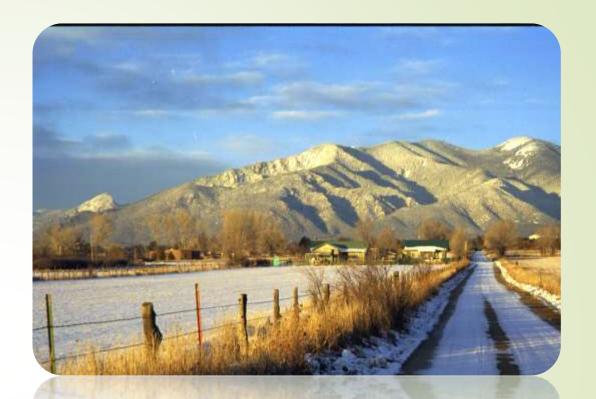


Habitat Gardening in the Southern Rocky Mountains

Presented to Los Jardineros de Taos, June 16, 2016 Sylvia Rains Dennis, **www.wildlandance.net**

Describing home... a talking circle!

- Our natural setting:
 - Climate, elevation, seasons
 - Soils and geology
 - Watershed features



Who lives here? We do! (the RURAL we: about 5,555)

And, according to Precious Heritage, 2000, New Mexico has:

147 mammals 448 birds 95 reptiles

762 vertebrates 25 amphibians and... 3,266 PLANTS

(= 4,037 species, of which 86 are endemic; & about 468 (10%) are at risk)

HABITAT = dwelling place, or "where we live"

(from Latin, habitare, to dwell)

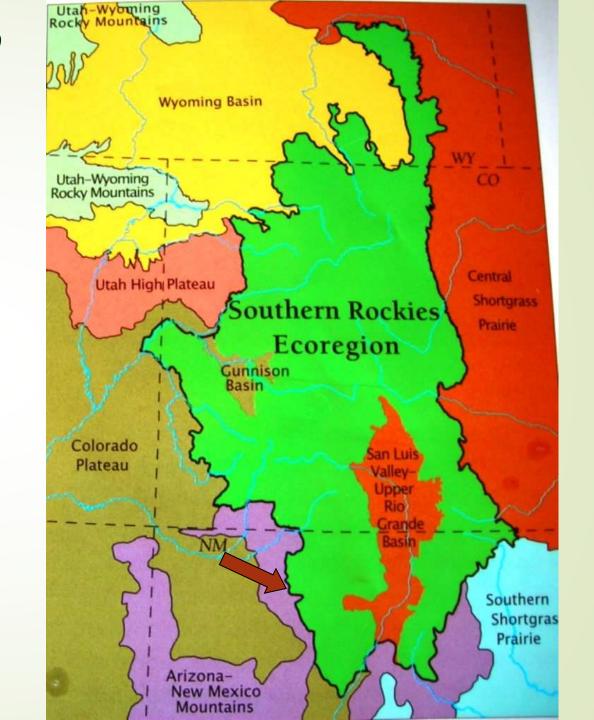




Our Ecoregional Overlap

- Southern Rockies
- Colorado Plateau
- Upper Rio Grande Basin/ San Luis Valley
- Great Plains
- Upper Sonoran (AZ-NM mtns here)

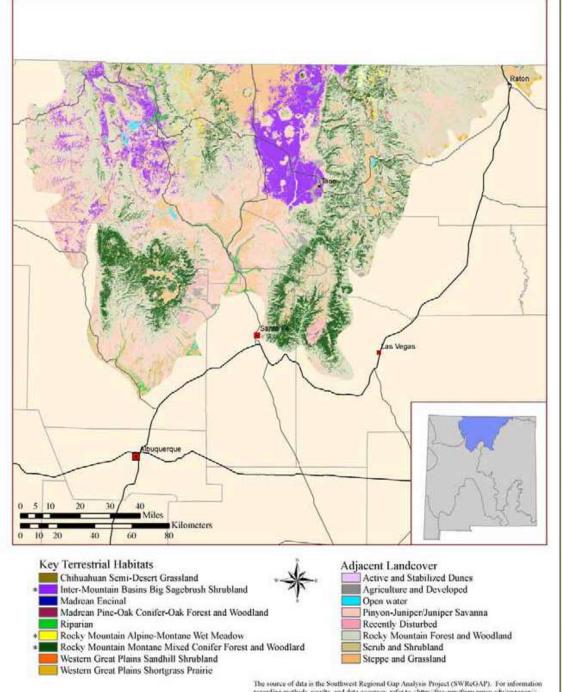
Source: Southern Rockies Ecosystem
Project (updates available)



New Mexico Vegetation



Photo by Mary Pickett



The source of data is the Southwest Regional Gap Analysis Project (SWReGAP). For information regarding methods, results, and data accuracy, refer to "http://fws-mncfwru.mnsu.edu/swregap".

Habitat Diversity & Sustainable Gardens

- Natural garden settings as a basis for habitat gardening:
 - Forests
 - Woodlands
 - Meadows
 - ■Stream, springs, wetlands
 - Mesa habitats:
 - Basalt and plateau areas
 - ■Shrub-steppe
 - Grasslands or prairie remnant



Mountain Life Zones



Gardening . . and restoring!

- Site considerations & sustainability
- Pollinators, Plants, what they need & how they move
- Wildlife and natural habitat
 - Open space/connectivity?
 - Birds, migrating species, regular visitors
 - Interaction with pets or domestic animals

Some design elements to consider:

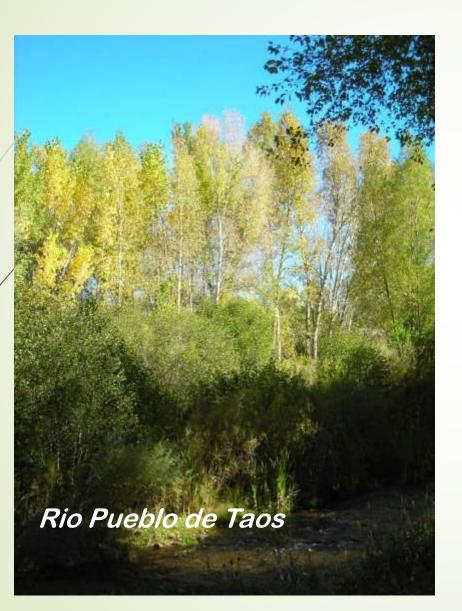
Garden rooms (may maximize microsites; wind protection, water availability, shade, etc.)

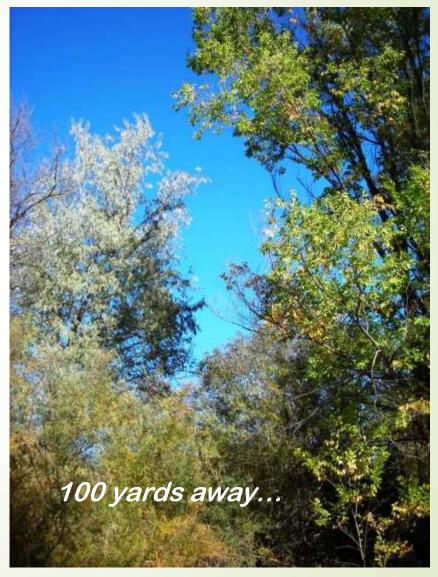
Landscapes as part of the natural "horizontal" biodiversity

Refugia concept, linking garden and natural habitats, providing a safe haven, pollinator connectivity, and more...



Native Riparian Uh oh...





What to keep, what to remove, how to manage amendments and life stages for your natural garden

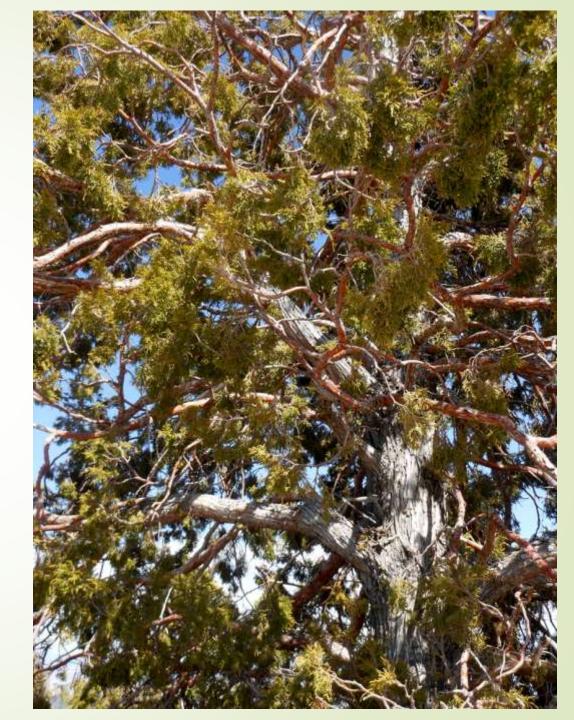
Open discussion!

- Organic inputs, harvest & creative planting
- Native plants and cultivation zones
- Soil improvement and erosion control
- Watering (quality, source, sheetflow, catchment)
- Weed control, seed collection, plant sources

LOVE YOUR HABITAT!



Juniper textural diversity from a key habitat tree



And yes, SHRUB diversity in a range of natural habitats:







Where there's a niche, there's a way...







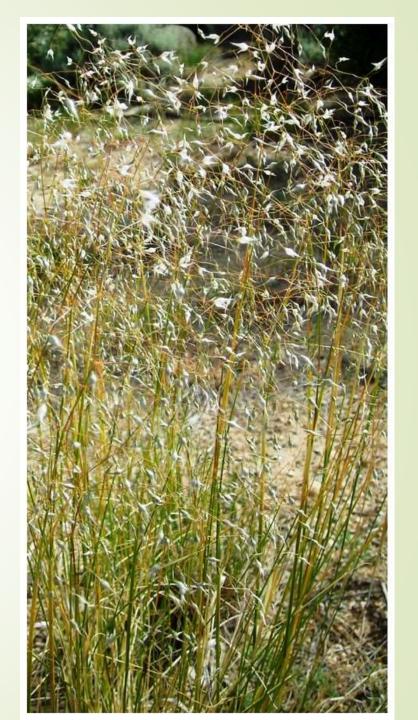
Just for fun, some habitat gardening examples...



Including local examples, natural habitats, working landscapes, and the Rocky Mountain Botanical Habitats Demonstration Gardens, a Xeriscape Colorado Tour Garden

The joy of native plants







Botanical Diversity & High Desert Conditions

- Upper Sonoran
- Chihuahuan Relicts



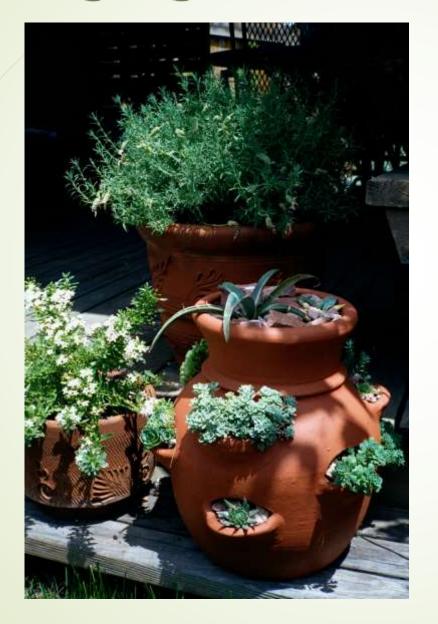








managing habitats





Habitat gardens & mutual sustainability







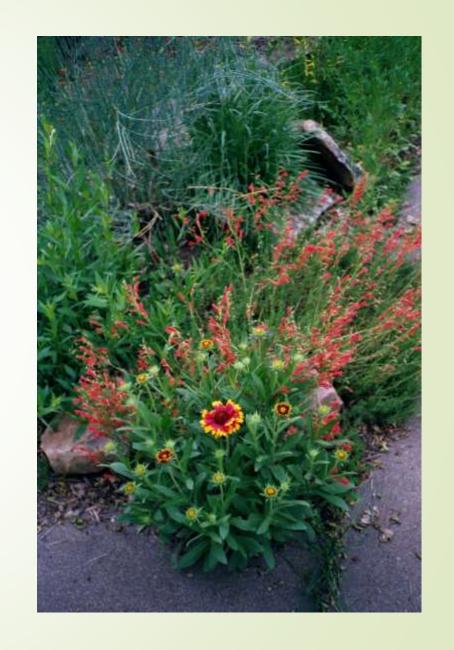


Outside: garden habitats



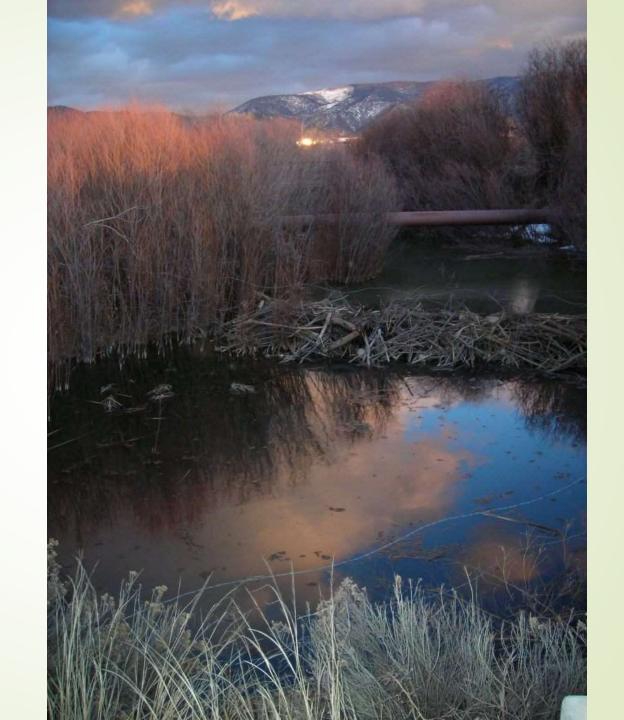
Remembering our Resilience

Whether a cyclical drought, changing temperature patterns, pine beetles, fire, dust-storm . .





In-town
Botanical
Diversity,
El Río
Fernando



Post-fire Diversity: The Hondo Burn



When in drought ...

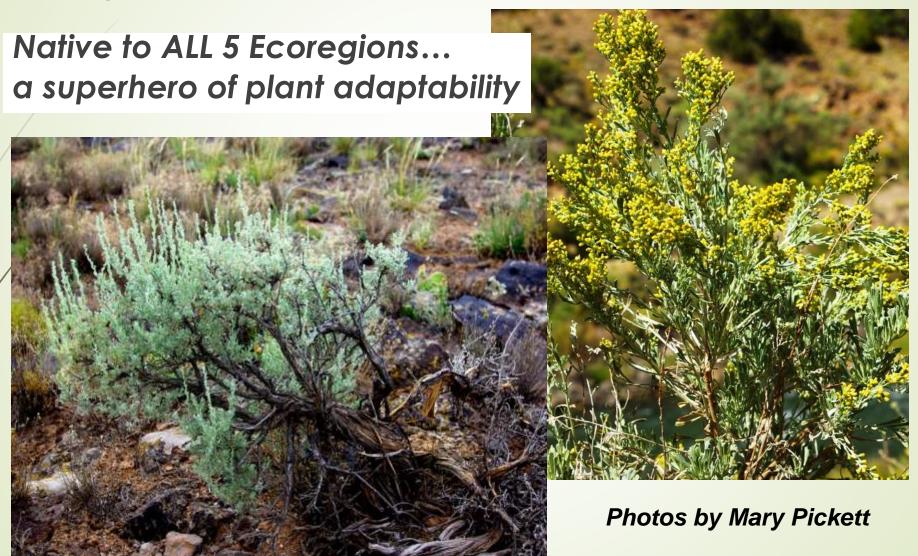








¡Qué Viva el Chamiso!



El Río Grande near Embudo

¿la Chamisita?

(horsebrush: Tetradymia canescens)



¡la Chamisa!(rabbitbrush: *Chrysothamnus nauseosus*)

Photos by Mary Pickett





in botanical gratitude



More questions for Sylvia? See the WILDLANDANCE website or call 575-770-9040 p.s.: this slide show will be available online, www.wildlandance.net