

Yavapai County Master Gardener Association



Landscape Design with Native Plants

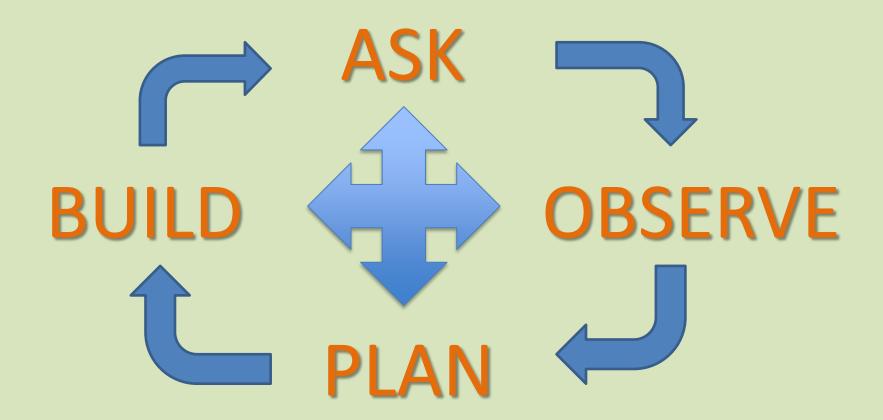
Ask, Observe, Plan, Build / Install

Lesley Alward presentation on February 2, 2022, at Yavapai College OLLI













WHY?

What is your inspiration and motivation for your garden or garden spaces?





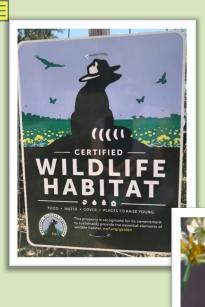


























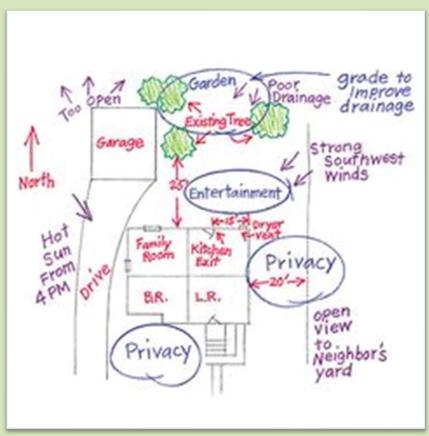


OBSERVE: WHAT & WHERE?

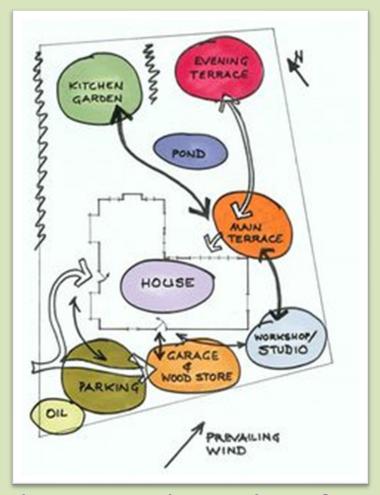
- Micro-Climate
- Topography
- Aspect
- Sun
- Shade
- Views
- Water
- Animals



BUBBLE DIAGRAMS to record observations





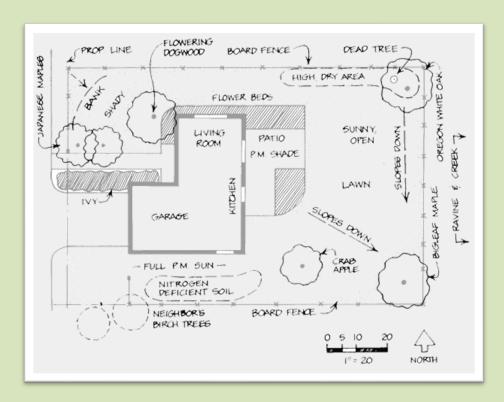


Conceptual representations: major elements, relationship of spaces, flow, relative space sizes





EXISTING CONDITIONS IN PLAN VIEW







YAVAPAI COUNTY GEOGRAPHIC INFORMATION SYSTEMS (Yavapai GIS)

http://www.yavapai.us/gis/gis-mapping-applications

USE MEASUREMENT TOOLS

OR

➤ GOOGLE MAPS, SATELITE VIEW



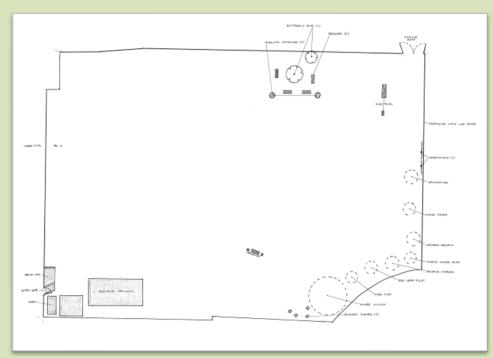


LIBERTY TRADITIONAL SCHOOL HABITAT GARDEN

AERIAL FROM GOOGLE MAPS



PLAN VIEW WITH EXISTING ELEMENTS







HOW...

...to make your WHY, WHAT & WHERE translate into a garden design?





LANDSCAPE ELEMENTS

Hardscape

- Pathways
- Walls / Fences
- Patios / Decks
- Shade Structures
- Garden Art
- Hot Tub, Water Features
- Sheds
- Irrigation
- Lighting
- Seating

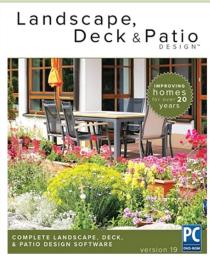
Softscape

- Trees
- Shrubs
- Grasses
- Forbs
- Vines
- Annuals

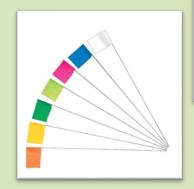


















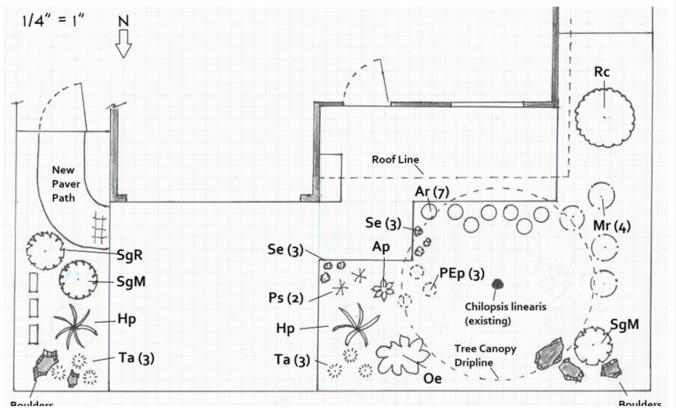


WANTS IN LIST FORM

- 1. All plants native to Southwest and Arizona
- 2. All plants low-water once established
- 3. Plants attract birds by providing:
 - a. Seeds native grasses
 - b. Berries native shrubs
 - c. Nectar rich trees, shrubs, succulents, perennials & annuals
 - d. Protection create canopy with varying heights
 - e. Water at varying heights
- 4. Grassland feel with shrubs along property edges
- 5. Dry Stream bed in front yard from downspout drain to swale
- 6. Subtle grading of swales to direct downspout water to depressed basins around Desert Willows









PLANT LIST							
KEY	QTY SIZE	LATIN NAME	COMMON NAME				
SHRUBS AND WOODY PERENNIALS							
Mr	4#1	Mahonia repens	Creeping Oregon Grape				
Rc	1#5	Rhamnus californica	California Buckthorn				
SgR	1#1	Salvia greggii Red	Red Autumn Sage				
SgM	2 #1	Salvia greggii Magenta	Magenta Autumn Sage				
PERENNIALS							
Ar	7 #1	Ajuga reptans 'Burgundy Glow"	Carpet Bugle				
PEp	3 #1	Penstemon barbatus 'Elfin Pink'	Southwestern Beardtongue				
Ps	2 #1	Penstemon strictus	Rocky Mtn Beardtongue				
Ta	6 #1	Tetraneuris acaulis	Angelita Daisy				
SUCCULENTS							
Ap	1#5	Agave Parryi	Parry's Agave				
Нр	2 #5	Hesperaloe parviflora	Red Yucca				
Oe	1#5	Optunia engelmannii	Engelmann's Prickly Pear				
Se	6#1	Sempervivum	Hens and Chicks				











WHEN?

Plan the installation sequence of your garden according to:

- Budget
- Time
- Season
- Weather
- Workforce





INSTALLATION SEQUENCE

1. EARTHWORK

- a. Grading
- b. Drainage





2. HARDSCAPE

- a. All wood, metal, concrete, paving projects
- b. Include sleeves under pathways for irrigation & lighting
- c. Irrigation boxes & valves
- d. Water for water features & main irrigation lines
- e. High voltage electrical















3. SOFTSCAPE

- a. Trees
- b. Shrubs
- c. Vines
- d. Forbs
- e. Grasses
- f. Annuals

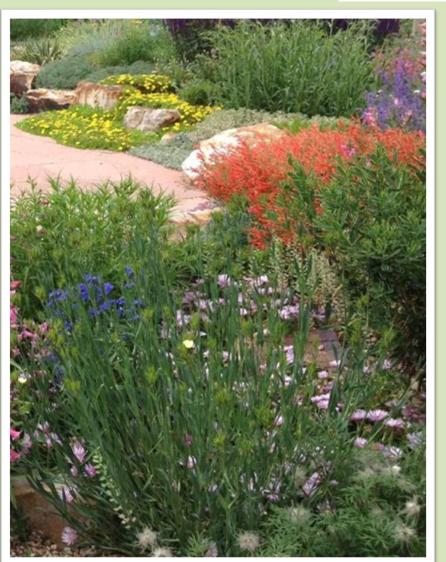


GENERAL DESIGN CONCEPTS



INFORMAL DESIGN

- ✓ Curving pathways & planting beds
- ✓ Variety of plant types& colors
- ✓ Low growing to "roundy moundy" to taller in background







FORMAL DESIGN

Utilizes balance & symmetry May utilize:

- ✓ repetition of elements
- √ limited color palette
- ✓ linear, angular & circular elements







BEYOND PERSONAL STYLE...

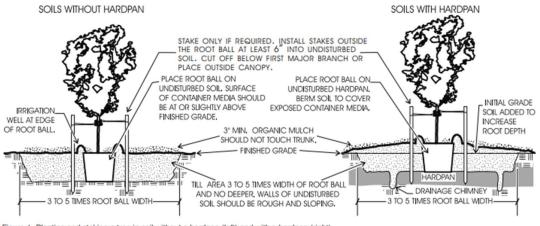
Consider foliage color, form and characteristics as well as flower color for greatest year round Interest.

Hardscape, trees and evergreen plants form the architectural elements which provide year round interest and encourage you to engage with your landscape.



PLANTING GUIDELINES: CONTAINER TREES & SHRUBS

Ursula Schuch















NATIVE PLANTS

Plants that occur naturally in a particular region, ecosystem, or habitat without direct or indirect human intervention.

REGIONALLY ADAPTED NATURALIZED



WHY GO NATIVE?

- 1. ADAPTED TO OUR LOCAL CLIMATE
- 2. ADAPTED TO OUR NATIVE SOILS
- 3. SUPPORT BIOLOGICAL DIVERSITY & PROVIDE HABITAT
- 4. BEAUTIFUL & LOW MAINTENANCE





Yavapai County Native & Naturalized Plants



Yavapai County Cooperative Extension

Home Plant Communities Plant Lists Search Forbs/Subshrubs Search Grasses Search Woody Plants Additional Resources About this Website



Cacti



Shrubs



Woody Vines



Grasses



Agaves and Yuccas



Noxious and Invasive Plants



Forbs and Subshrubs



Trees



Gardens Featuring Xeric Plants

Arizona Cooperative Extension Yavapai County 840 Rodeo Dr #C Prescott, AZ 86305 (928) 445-6590 Version 8.0 http://cals.arizona.edu/yavapaiplants/index.php Last Updated: Nov 21, 2021

Content Questions/Comments: Email Mary Barnes

Legal Disclaimer

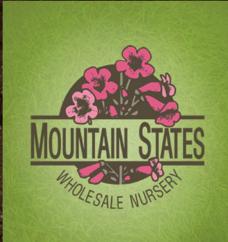


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Availability

New Plants

Catalog

Cold Hardiness

▶ Contact Us



Search our Plant Database

Let us help you find the perfect plants from our catalog.

Search by letter?

ABCDEFGHIJKLMNOPQRST UVWXYZ



Hesperaloe parviflora 'Perpa' Brakelights® PP# 21729

New Plants & Collections

As Mountain States Wholesale Nursery celebrates over 48 years, we extend our gratitude to all of our customers and friends who have supported and encouraged us through the years. There are many ways to measure progress, and to us the most meaningful sign is the presence of previously unused desert plants in thoughtful landscapes throughout the Southwest. These landscapes range from large-





BOUTELOUA GRACILIS 'BLONDE AMBITION' PP22048

Selected by renowned plantsman David Salmon of High Country Gardens in Santa Fe, this showy selection of blue grama grass has huge chartreuse flowers that dance above the foliage. They mature into long-lasting blonde seedheads that add interest all year. This selection of blue grama is larger than the species, growing to 30-36 inches tall. The narrow green leaves dry to a tan color in the winter months. This warm-season, clumping grass is extremely cold hardy and durable. Plant in full sun, but provide ample summer irrigation in the low deserts to maintain a lush green look. It will benefit from a good hard pruning or mowing in the early spring to remove dormant winter foliage and spent flower spikes. USDA Zone 4.

AT A GLANCE SUM	MARY
SIZE (H X W)	2.5-3 feet x 2.5-3 feet
FLOWER COLOR	Green to purple
FLOWER SEASON	Spring - Summer
EXPOSURE	Full sun
WATER	Low
GROWTH RATE	Fast
HARDINESS	-20° F, USDA Zone 4
PRUNING	Cut back in spring







GRASS



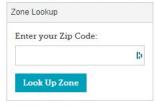


PIONEERS IN SUSTAINABLE GARDENING

PERENNIALS FLOWER BULBS PLANT FINDER LAWNS WILDFLOWER SEEDS PRE-PLANNED GARDENS GARDEN GOODS SALE

We Love Lavender Sale! Save Up To 15% Through 2/7

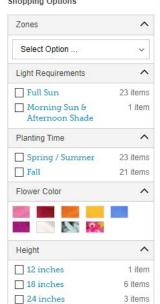






Shopping Options

30 inches



Agastache | Hummingbird Mint

Agastache, also called Hummingbird Mint, or Hyssop, are showy, fragrant, longblooming perennials. As their name suggests, they're highly attractive to hummingbirds. Agastache are essential for a pollinator-friendly garden, and have excellent resistance to browsing deer and rabbits thanks to the minty fragrance of its foliage. Explore our extensive selection of garden-tested Agastache, including unique introductions & exclusive varieties from Chief Horticulturist David Salman. Learn More: All About Agastache and Agastache Introductions.

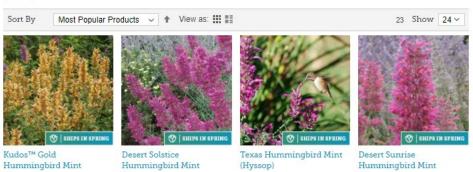




2 items

Show (3) more *

To choose the best plants for your garden, use our filters at left.





Ava Agastache + PRONUNCIATION





Video





4.5	8 Reviews Write a Review
Click an image to see	it above:
best plant introduction of deep rose-pink flow calyxes. This vigorous	of High Country Gardens very is, renowned for its tall spikes vers held by raspberry-red is hybrid Hummingbird Mint ths beginning in mid-summer.
Zones	5 - 10
Advantages	Attract Butterflies Attract Hummingbirds Bee Friendly Deer Resistant Rabbit Resistant Native Fragrant Flower / Foliage Good For Dried Flowers Good For Containers Extended Bloom Time (more than 4 weeks)
Light Requirements	Full Sun
Water Tolerance	
Mature Height	48-60" tall

24" wide

Mid summer to fall

Shipping begins the week of February 21st, 2022

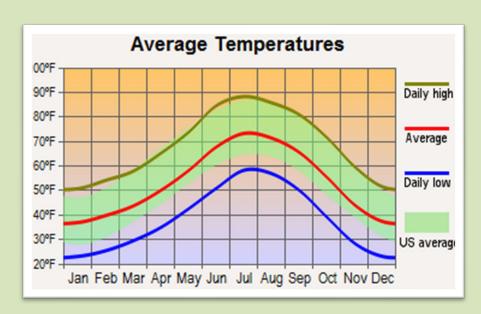
Mature Spread Bloom Time

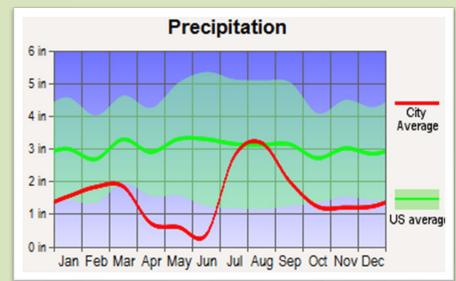
Shipping Details





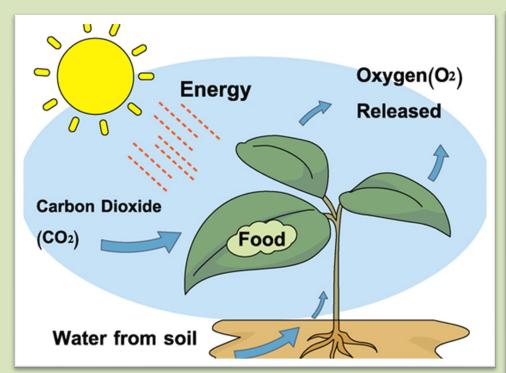
PRESCOTT CLIMATE DATA

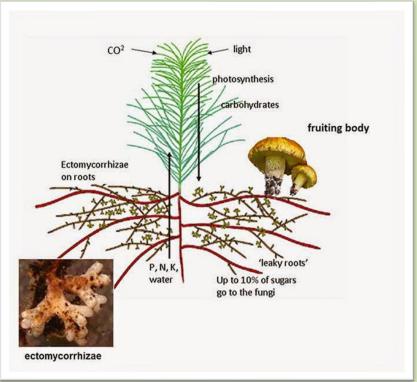






- Photosynthesis and help from above the soil
- Native plants have symbiotic relationships with mycorrhizal fungi & bacteria that allow them to acquire needed nutrients & phosphorous from the soil without using fertilizers or amendments







ABOUT OUR SOILS...



Nutrient Availability Chart

Soil pH

	J Sui pri										
	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
Nitrogen	NA	SA	MA	MA	HA	HA	HA	HA	MA	MA	SA
Phosphorus	NA	NA	SA	MA	HA	HA	HA	MA	MA	SA	MA
Potassium	NA	SA	MA	MA	HA	HA	HA	HA	MA	MA	MA
Sulfur	NA	SA	MA	MA	HA	HA	HA	HA	MA	MA	MA
Calcium	NA	NA	SA	MA	MA	MA	HA	HA	HA	HA	MA
Magnesium	NA	SA	SA	HA	HA	HA	HA	HA	MA	MA	MA
Iron	HA	HA	HA	HA	HA	MA	MA	SA	SA	SA	SA
Manganese	HA	HA	HA	HA	HA	MA	MA	SA	SA	SA	SA
Boron	MA	MA	HA	HA	HA	HA	HA	MA	SA	SA	MA
Copper	NA	SA	MA	HA	HA	HA	HA	MA	SA	SA	SA
Zinc	HA	HA	HA	HA	HA	MA	MA	SA	SA	SA	SA
Molybdenum	NA	NA	SA	SA	MA	MA	HA	HA	HA	HA	HA

Acidic

-----Optimum pH Zone for Soil------

Basic

Key:

Nutrients

NA = Not Available

SA = Slightly Available

MA = Moderately Available

HA = Highly Available





SUPPORT BIOLOGICAL DIVERSITY & PROVIDE HABITAT

- ☐ Food source for young & mature species
- ☐ Shelter from predators & the elements
- □ Places to nest & raise young









FOOD



SEED RICH



NECTAR RICH



FOR LARVAE



BERRIES



POLLEN RICH





SHELTER











PLACES TO RAISE YOUNG





NATURAL CANOPY





TREES



Desert Willow Chilopsis linearis











Redbud Cercis Canadensis texenis 'Oklahoma'



FOR BEAUTY & BUTTERFLY LARVAE





Bouteloua gracilis Blue Grama



Bouteloua curtipendula Sideoats Grama



Cirsium arizonicum Arizona Thistle



Lupinus arizonicus Arizona Lupine







HUMMER MAGNETS











Agastache cana Common Name?

Rocky Mtn Penstemon Penstemon Strictus











Penstemon pseudospectabilis Desert Penstemon





Heuchera / Coral Bells



Aquilegia chrysantha Golden spur columbine



Ratibida columnifera Prairie Coneflower











Landscape Hardscape Elements Installed After Plant Installation:

- Drip irrigation
- Low voltage or solar lighting
- Stepping Stones
- Unsecured seating
- Mulch



DRIP IRRIGATION









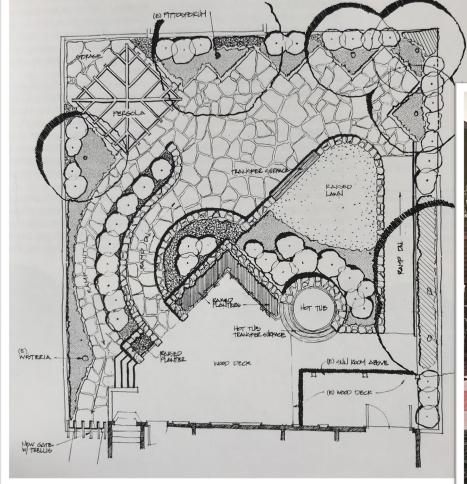
WHO?

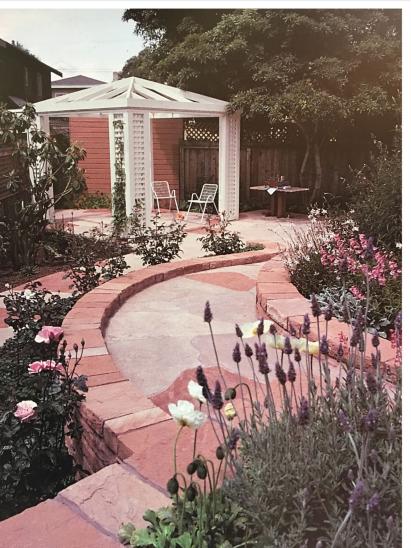
- ✓ You?
- √ Family? Friends?
- ✓ Landscape contractors?
- ✓ Hired help?
- ✓ All of the above?

Have a plan for each possibility so that Your Dream Garden is actually expressed through the work done!









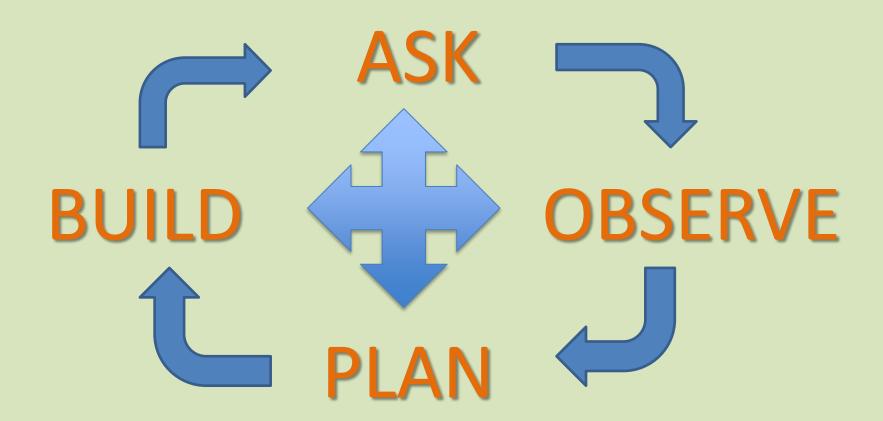
















THANK YOU! Questions?

University of Arizona Cooperative Extension https://extension.arizona.edu



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