



MAXIMIZING THE SUCCESS OF YOUR HOME GARDENS

by using

**TRIED AND TRUE, SCIENCE-BASED
GARDENING TECHNIQUES**





How can you maximize
your success in your
gardening efforts?

Observe, Inquire & Discover





- 1. PLANT SELECTION**
- 2. PLANTING
TECHNIQUES**
- 3. POST-PLANTING
TECHNIQUES**





1. PLANT SELECTION

- ☐ Right plant right place
- ☐ Where are you learning about and buying your plants?
- ☐ What type of plants are you using?
- ☐ What size of plants are you using?





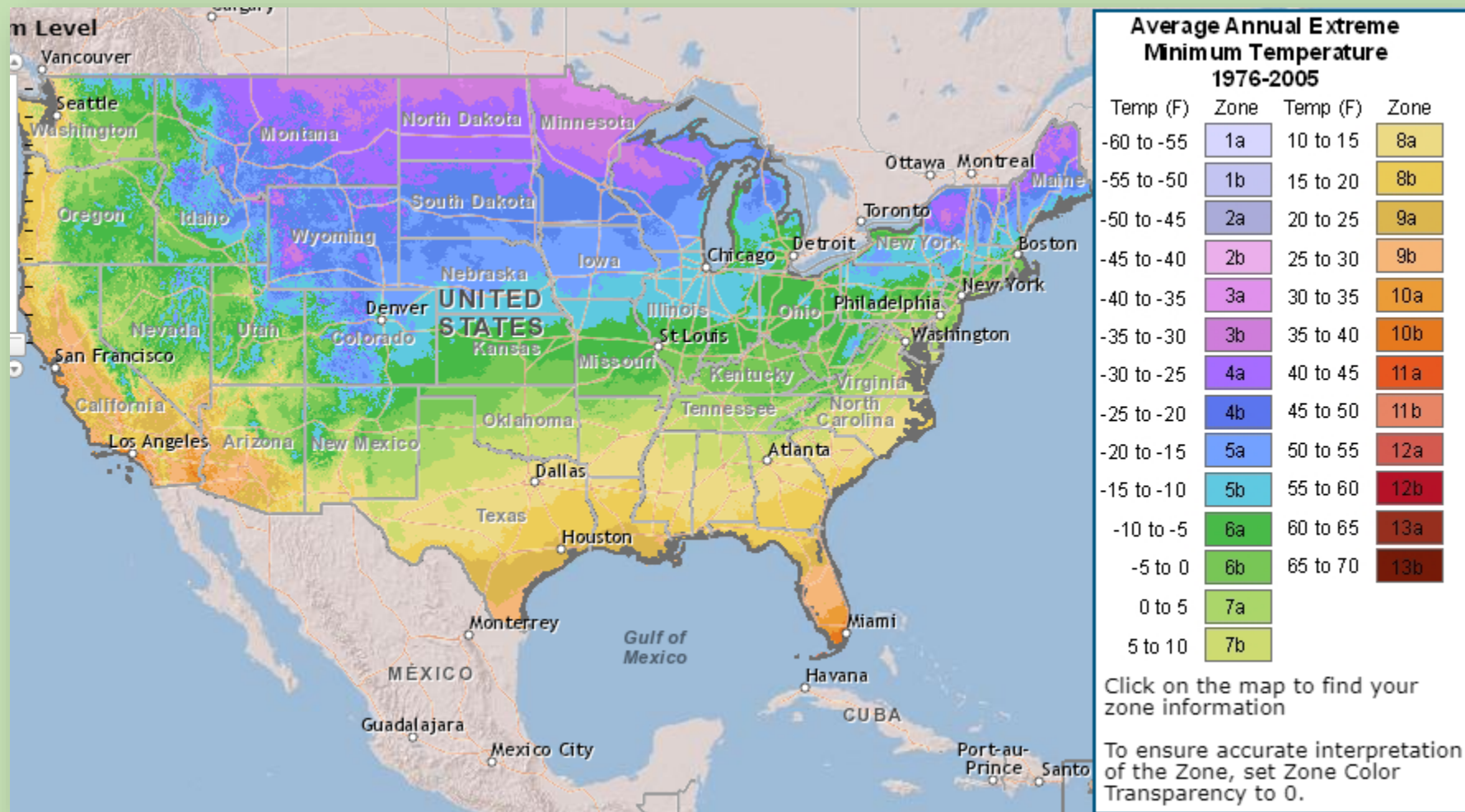
Select plants based upon your garden site:

- ☐ Local micro-climate
- ☐ Orientation
- ☐ Aspect
- ☐ Prevailing winds
- ☐ Shading elements
- ☐ Soil type(s)





USDA PLANT HARDINESS MAP



Interactive map at <http://planthardiness.ars.usda.gov/PHZMWeb/>



Select based on your garden's purpose:









Where are you learning about plants?

- ☐ Online information
 - .edu
 - Yavapai County Native Plants
 - mswm.com
 - Highcountrygardens.com
- ☐ Local Plant retail stores
- ☐ Master Gardener help desks





Yavapai County Native & Naturalized Plants

Yavapai County Cooperative Extension

[Home](#)[Plant Communities](#)[Plant Lists](#)[Search Forbs](#)[Search Grasses](#)[Search Woody Plants](#)[Additional Resources](#)[About this Website](#)

Cacti



Grasses



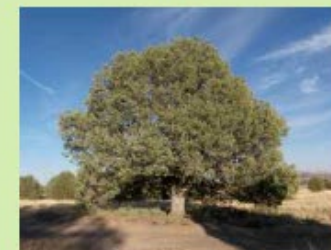
Forbs



Shrubs



Agaves and Yuccas



Trees



Woody Vines



Noxious and Invasive Plants



Gardens Featuring Xeric Plants

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Version 6.0
<http://cals.arizona.edu/yavapaipplants/index.php>
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MOUNTAIN STATES WHOLESALE NURSERY

Mswn.com

Specialize in water
efficient plants

Note: Cold hardiness is
limiting factor






Gaillardia X 'Arizona Sun' Arizona Sun Blanketflower

Blanketflower is native across a wide swath on the United States, occupying the prairie lands ranging from the east coast to the desert Southwest. Arizona Sun is a cultivated hybrid that is grown for its large, two-tone flowers and the overall hardiness of the plant. Arizona Sun will form clusters about 1 foot tall and wide with 3 inch long soft leaves. Large red and yellow flowers begin in late spring and continue through the fall. Best flower production occurs if plants are periodically deadheaded. Grows well in full sun at higher elevations, but prefers partial shade in the lower deserts. Arizona Sun is remarkably cold hardy, and can handle temperatures down to -40°F.

AT A GLANCE SUMMARY	
SIZE (H X W)	1 foot x 1 foot
FLOWER COLOR	Red and yellow
FLOWER SEASON	Late spring through fall
EXPOSURE	Full sun, part shade
WATER	Low to moderate
GROWTH RATE	Moderate
HARDINESS	-40° F., USDA Zone 3
PRUNING	Prune to remove spent flowers



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Specialize in hardy
perennials and low
water use plants.
Founded by David
Salman, a
Horticulturist.



Hesperaloe parviflora Straight Up Red PPAF | Straight Up Red Texas Yucca



Click an image to see it above:




3.8

6 Reviews





[Write a Review](#)

Straight Up Red Texas Yucca PPAF is an everblooming yucca that produces a summer-long display of red-pink flowers held on strongly upright growing flower spikes. **2017 Plant of The Year.**

Zones 

5 - 9

Advantages

- ✓ Easy to Grow
- ✓ Extended Bloom Time (more than 4 weeks)
- ✓ Good for Containers
- ✓ Good for Cut Flowers
- ✓ Good Rockgarden or alpine plant
-  Attract Butterflies
-  Attract Hummingbirds
-  Rabbit Resistant
- ✓ Native  Evergreen
- ✓ Low Maintenance



Where do you purchase your plants?

- ☐ On-line
- ☐ Big Box Stores
- ☐ Local Nurseries
- ☐ Specialty Nurseries





What type of plants:

- ☐ Non-native
- ☐ Native & Naturalizing
- ☐ Annuals
- ☐ Perennials





Native plants:

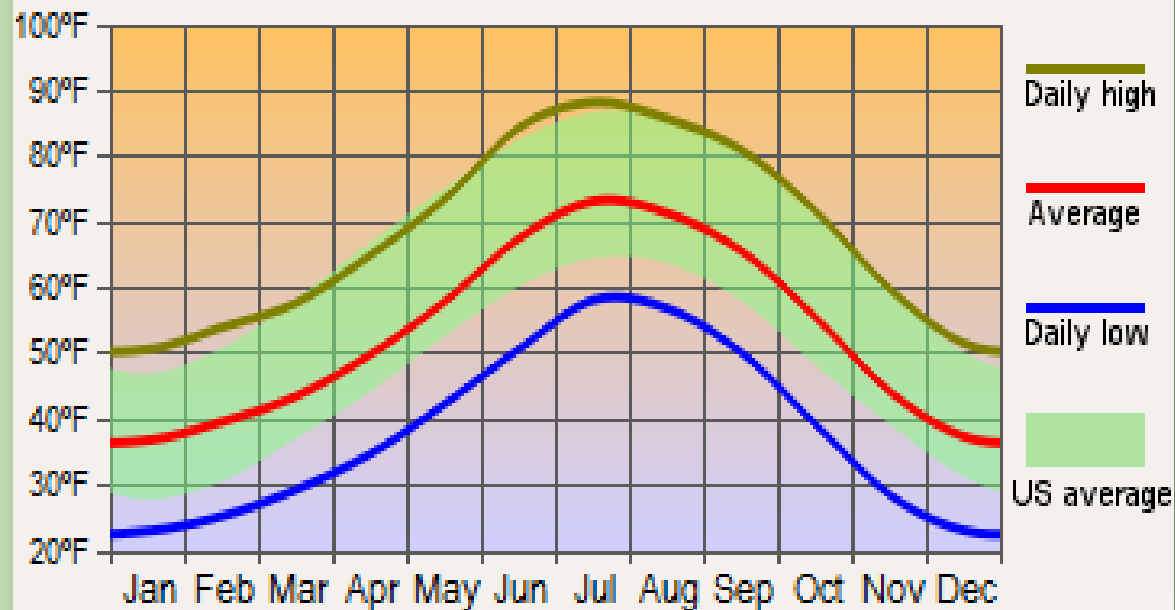
- ☐ Are adapted to our local climate
- ☐ Are adapted to our native soil
- ☐ Support biological diversity and provide habitat
- ☐ Are low maintenance
- ☐ Are beautiful



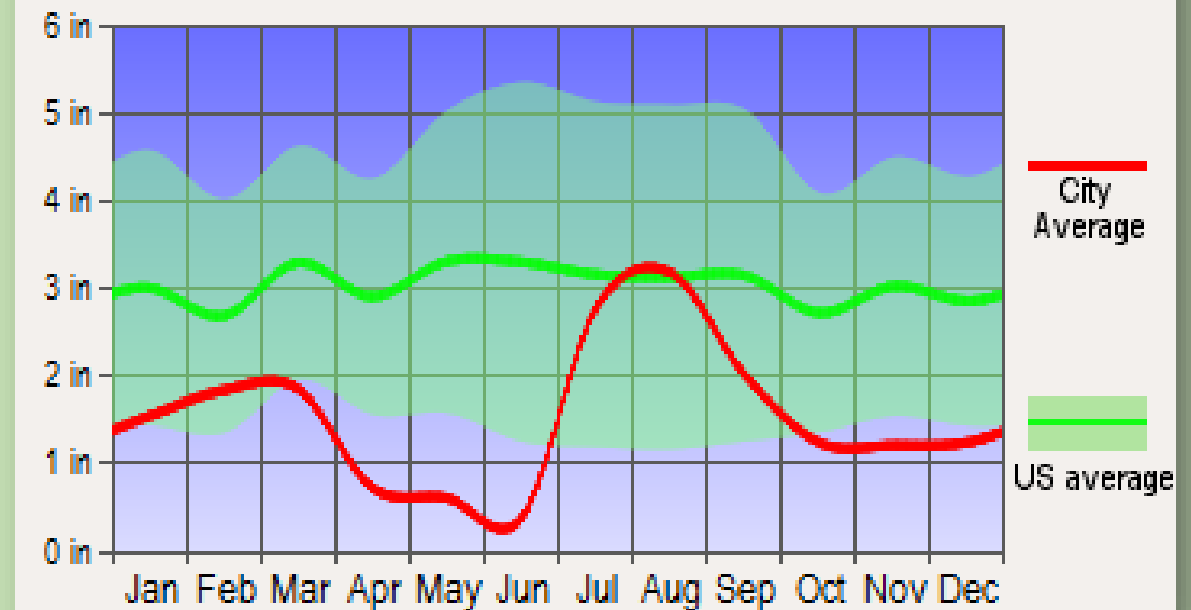


Adapted to our local climate: **PRESCOTT CLIMATE DATA**

Average Temperatures



Precipitation





Adapted to our native soils

- ☐ Require no amendments to correct for the alkalinity of our soils
- ☐ Require no fertilizers





Nutrient Availability Chart

		Soil pH										
		4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
Nutrients	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:

NA = Not Available

SA = Slightly Available

MA = Moderately Available

HA = Highly Available

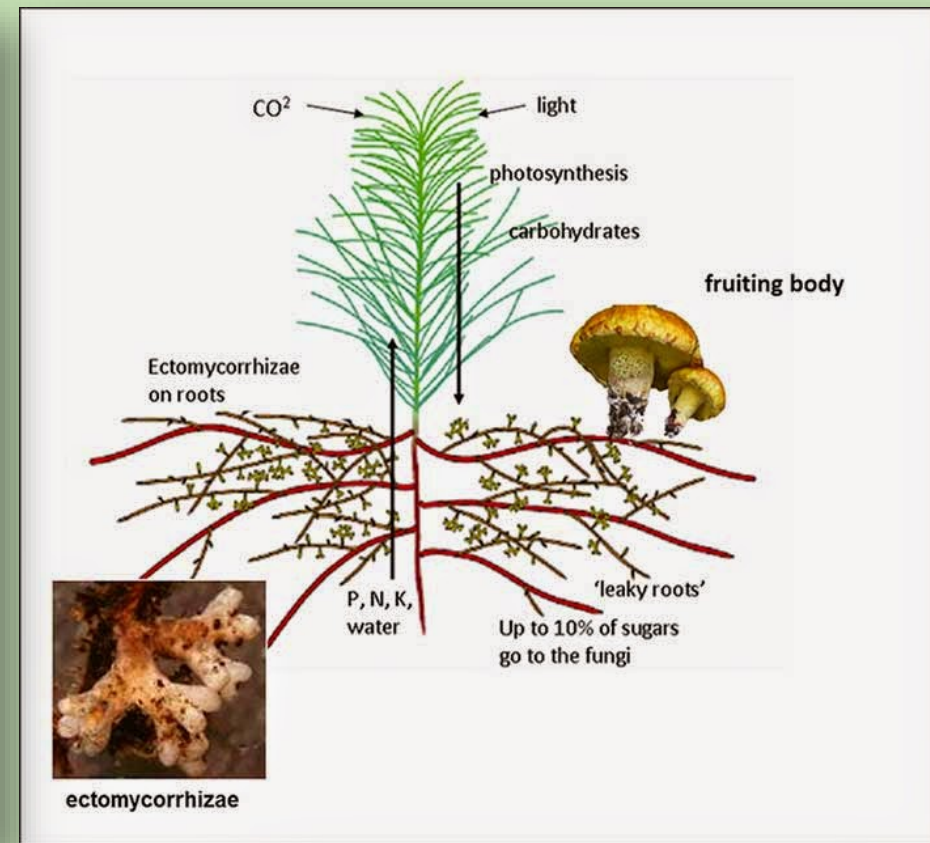
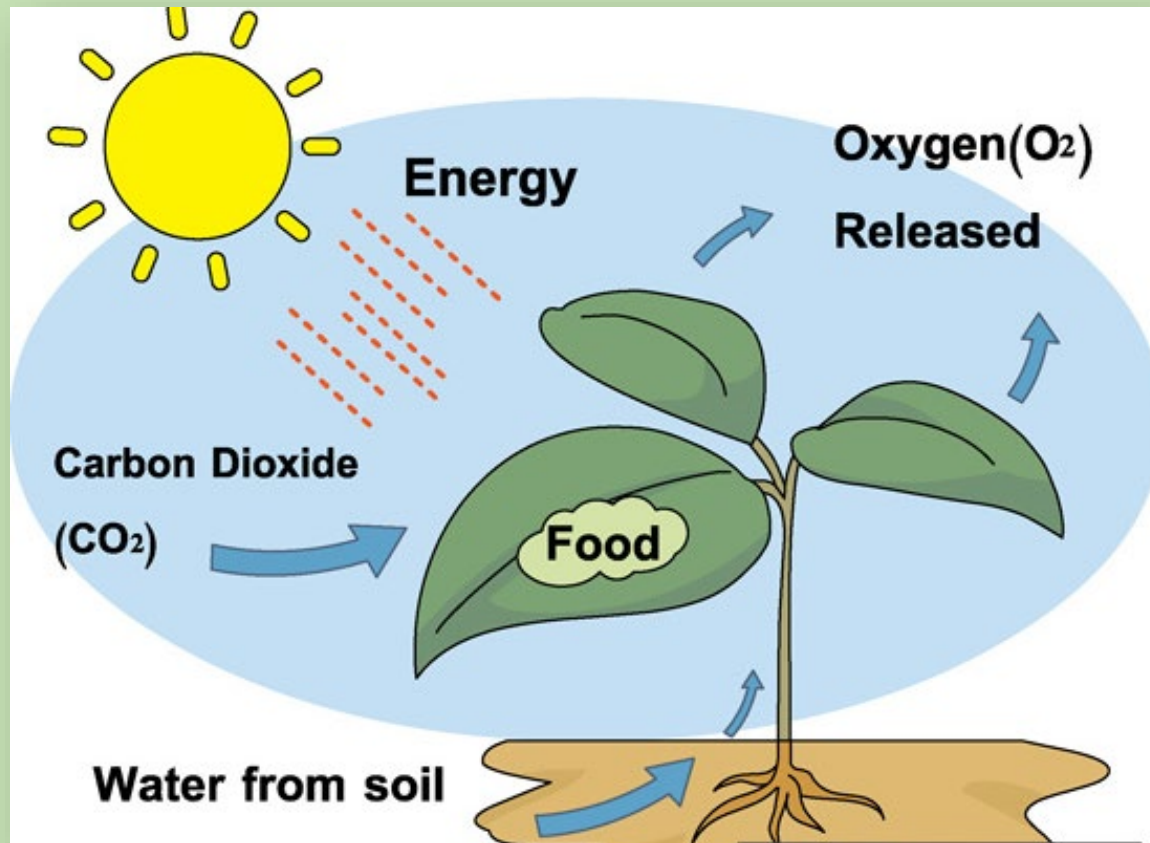
<https://cals.arizona.edu/yavapai/anr/hort/byg/archive/phosphorus2020.html>

...maximum phosphorus availability occurs between soil pH 6.0 to 7.0. In Yavapai County our soils tend to be alkaline and have a pH of 7.0 to 7.8 and greater. Soils with a pH of 7.5 and higher typically have a high calcium concentration that binds phosphorus as calcium-phosphate creating an insoluble compound that is not available to plants (this process is called P fixation).





Native plants have symbiotic relationships with microbes (mycorrhizal fungi & bacteria) that allow them to acquire needed nutrients & phosphorous from the soil *without* using fertilizers or amendments...





Size of Plant:

- ☐ From seed
- ☐ 6 Pack
- ☐ 4" pot
- ☐ 1 gallon pot
- ☐ 5 gallon pot
- ☐ 15 gallon pot





QUESTIONS?

RELATED TO PLANT SELECTION CONCEPTS





2. PLANTING TECHNIQUES:

- ☐ When to plant
- ☐ Use U of A Planting Guidelines
- ☐ Hydration techniques





Best Season to Plant?

☐ Spring

Plant availability high. Soil just beginning to warm. Little time for root systems to develop to support the surge of leaf growth and flowering. Weather variable with danger of frost.

☐ Summer

Plant availability high. Temperatures hot! Plants require energy to develop both their root systems and growing leaves, flowers and/or fruiting. Need frequent watering. Plant conifers late summer.

☐ Fall

Plant roots grow when the soil temperature is 40+. During the late fall, the root systems of the fall-planted plants & deciduous trees develop and become better established. When spring arrives, the root system can support the surge of spring growth.

☐ Winter

Late winter is a good time to plant bare root plants, such as roses & fruit trees. Hydrate the roots well before planting and trim off any dead or damaged roots.





U OF A PLANTING GUIDELINES

PLANTING GUIDELINES: CONTAINER TREES & SHRUBS

Ursula Schuch

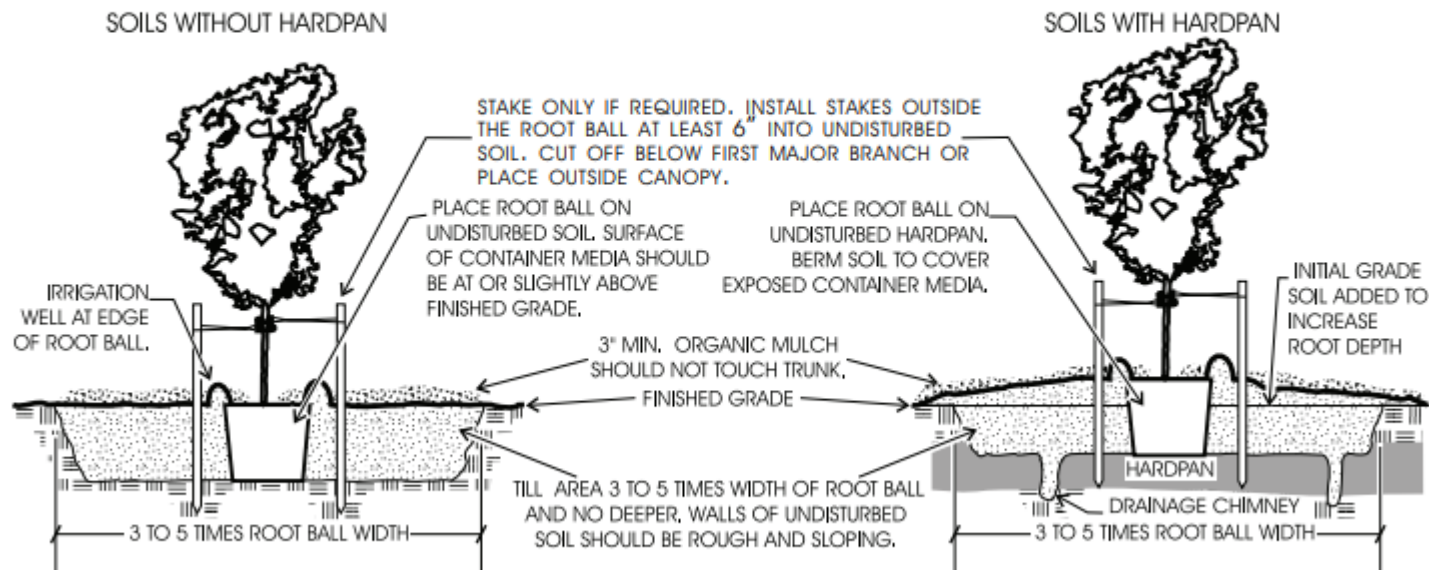


Figure 1. Planting and staking a tree in soil without a hardpan (left) and with a hardpan (right).



Handle the plant by the root ball, not by the trunk or stem!





Hydration:

- ❑ Fill hole with water & let drain completely before planting
- ❑ Saturate root ball prior to planting. Submerge pot in Container until no bubbles emerge. Let drain.





Maximize contact area between soil of plant and native soil:

- ☐ Walls of planting hole should be rough and slightly slanting outward
- ☐ Gently loosen root ball before planting and cut any circling roots





When Planting:

☐ Backfill

- Amend to improve drainage, water holding capacity or organic content, <25%
- Do not pre-wet backfill before planting

☐ Avoid planting too deep

☐ Compact soil around plant gently





Water deeply right after planting

- ☐ Use hose or bucket
- ☐ Add water gradually
- ☐ Helps settle soil
 - Add more soil as needed
- ☐ Removes air pockets





QUESTIONS?

RELATED TO PLANTING TECHNIQUES





3. POST PLANTING TECHNIQUES

- ☐ Watering
- ☐ Drip irrigation
- ☐ Mulch around plants
- ☐ Create pathways and use them



WATERING / IRRIGATION



MULCH



PATHWAYS





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THANK YOU

Questions?
Comments?
Thoughts?





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