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Who are the UCCE Stanislaus County Master Gardeners?



We extend research-based knowledge and information on home horticulture, pest management, and sustainable landscape practices.

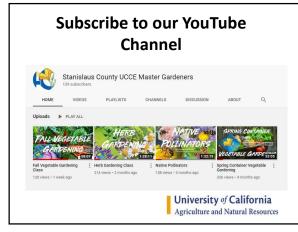


Sign up for our newsletter

- Online class announcements
- Gardening & pest management articles



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Agenda



- What is sustainable landscaping?
- Small changes that save water, energy, resources, and help our environment
- Make bigger changes
- Converting your landscape
- Right Plant, Right Place
- Questions?

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Let's Take a Poll!

What landscape changes would you consider making?

- Changing from sprinklers to drip irrigation
- Removing my lawn
- Removing part of my lawn
- Using less pesticides and fertilizers
- Not sure yet

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Poll #2

Why do you want to make a change?

- I want to save money
- I want to save water
- I want to help the environment
- I want an easy-care landscape
- I'm tired of pruning and mowing everything and doing so much yardwork!

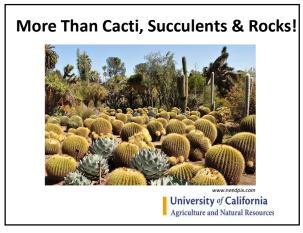
Sustainable Landscapes

- Save water
- Use less resources
- Create less greenwaste
- Use less toxic pesticides



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Small Changes



- Learn about your soil & water using this knowledge
- Audit your irrigation system
- Amend your lawn care plan
- Mulch your landscape!
- Less toxic pesticides

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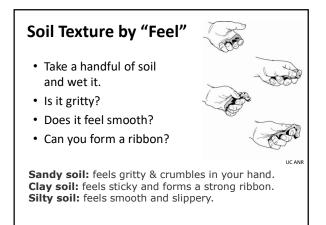
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What's Your Soil "Type?"

- 16 different textures
- Knowing soil texture
 - helps determines how much to water and how often
- Learn a little bit about yours!



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Watering by Soil Texture



- Clay soils: water tends to puddle.
 Cut watering times in half if needed
 - Otherwise water may runoff
- Sandy soils: water penetrates quickly. – Apply less water more frequently
 - Otherwise water will be wasted past the root zone

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"Hard Pan?"

- Water isn't penetrating, or is running off?
- An area of your landscape may be compacted.
- How to tell?
 - Can you push a screwdriver 6" deep into your lawn or landscape soil?

– Can't?

Add compost or aerate your lawn.

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Every Landscape Needs Compost

- Benefits all soil types
- Add 3-4" of compost, mix into the soil using a shovel or a tiller.

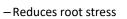


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- If lawn need to be aerated: borrow an aeration machine from a local nursery or garden center.
 Never dig in wet soil

Mulch Mulch Mulch!

- Reduces water loss to evaporation
- Moderates soil temperature



- -Increases biological activity
- -Improves soil fertility
- -Helps reduce weeds

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Eliminate Urban "Drool"

• <u>Observe</u> and test your irrigation system —Adjust sprinklers towards target

- -Fix broken sprinklers
- <u>Avoid</u> watering:

-Neighborhood streets

–When it's raining

-During windy days

-In the afternoon



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Runoff

•Water is wasted •Pavement eroded

https://ccuh.ucdavis.edu/urban-runoff-research

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•Fertilizers carried off •Pest control products carried off



Irrigation System Maintenance

Check for:

- Leaks
- Broken partsTimer issues



- or lines

 May need to:
 - Flush out the system

- Plugged emitters

– Add a filter or pressure regulator

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Lawn Care

- Shut off water during the rainy season
- Use adapted lawn species such as tall fescue (produce little to no thatch)
- Water to your soil type
- Mow 1/3 of grass each time
- Try applying less water



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Pests in the Landscape



- What's your tolerance level?
- Some pests need to stay present to feed beneficial insects.
 - -Aphids and lady bugs
 - -Leafcutter bees
- Wash or pick off pests when they appear.

Less Toxic Pesticides

- Choose horticultural soaps or oils
- Avoid broad spectrum pesticides
- Apply products when pollinators and beneficial insects are not present



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Poll #3

- Before this class, did you know that sprinkler water could carry pesticides and fertilizers into our water supply?
- Did you know that the most common pesticide source in our water is ant spray? (*bifenthrin*)
 - Avoid spraying around the perimeter of your house, or wait until after it rains to spray

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Grasscycling

- Saves water, resources, and nutrients
- Set mower to correct height
- Take off 1/3 height of lawn, leave clippings
- Natural source of nitrogen
 - Does not cause thatch build up,*returns moisture & nutrients to lawn, breaks down quickly



Composting

Take our composting basics class next month! November 24, 2020 6:00-7:30 p.m.



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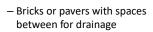
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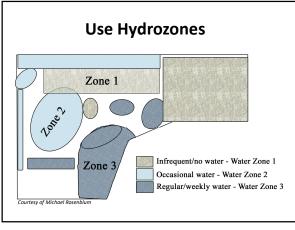
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Converting to Low Water Landscape

- 1. Make a plan-What is your goal?
- 2. Remove unwanted hardscape & plants
- 3. Amend with good quality compost
- 4. Hydrozone
- 5. Install/convert irrigation
- 6. Plant new material
- 7. Cover bare soil with organic mulch







Inline vs. Button Drip

BUTTON (Point-source)

- Spotty coverage to root zones
- Lines have to be added for new plants
- Emitters need
 replacement
- Leaks and blowouts

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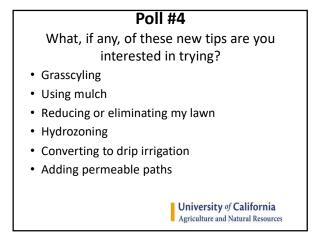


INLINE

- Even soil coverageNo need to add lines for
- new plantsPressure regulated emitters with check
- valvesWater use easily calculated in. or gals

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Right Plant, Right Place

- Healthier plants
- Fewer diseases
- Fewer pests
- Less greenwaste
- Less maintenance
- Fewer replacements
- Fewer pesticides

Rockrose, salvia 'Hot Lips,' and lavender.



Getting Started

•Plants need regular watering until established

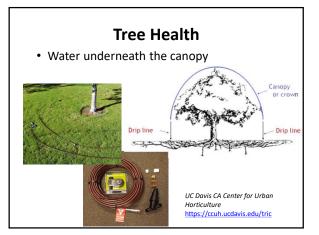
•Perennials – 1 year or 1 spring & summer (for spring or summer planting)

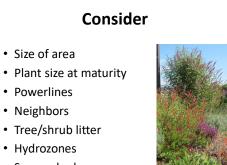
•Shrubs – 1 full year of regular water

•Trees – 3-5 years of regular water



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- Sun vs shade
- Call before you dig! (811) Butterfly bush, salvia greggii, CA fuchsia Aster 'Purple Dome', lavender. (Ellen Zagory)

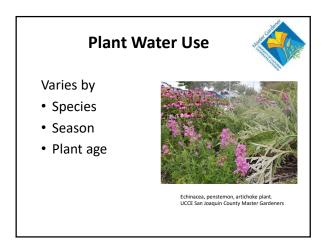


Right mature size means:

Less time pruning
Less green waste hauling
Fewer cuts open to pest organisms
Make better plant choices



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Arboretum All-Stars

- Annuals
- Perennials
- Grasses



Search the All-Star Plant Database

- Shrubs
- Vines
- Groundcovers
- Trees
- <u>https://arboretum.ucdavis.edu/arboretum-all-stars</u>

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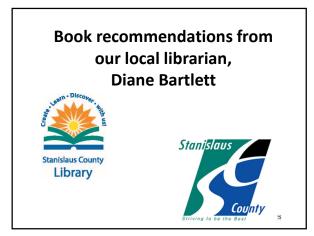
All-Stars Criteria

- Low to moderate water
- Clean foliage
- Long blooming period
- Pest tolerant



- Low maintenance
- Remains attractive throughout the year
- Provides for pollinators





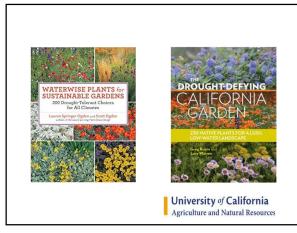


















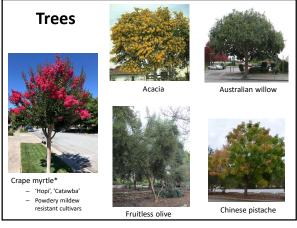




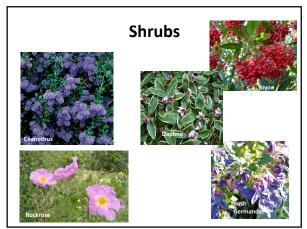
Suggested Plants

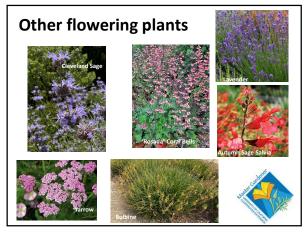
- Here are a few trees, shrubs, perennials, and grasses you may want to try.
- We will send you a copy of our newly revised "Water Wise Gardening" publication!















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Plant for Seasonal Color



- Choose evergreens for the "bones" of your landscape.
- Add plants that bloom year-round, not just in spring.
- Use plants that have berries or grass plumes for interest.
- Use complementary colors.

Plant in groups of 3, 5, 7, etc...

- Gives your landscape structure and depth
- Makes it easier for pollinators to find food
- Is more convenient for hydrozone planning
- Avoids "one of each 'itis"

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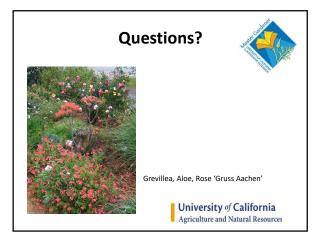
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to your landscape?

- Yes the tree suggestions
- Yes the shrub suggestions
- Yes the grass suggestions
- Yes -- the flowering plant suggestions
- All of the above
- None of the above

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Please take it to help grow the quality of our program.

Thank you!