Ruth Risdon Storer Garden-

Valley-Wise Garden





WHY SHOULD I use mulch?

Mulch protects the soil and improves the appearance of the home garden.

Mulch reduces

- weeds by blocking sunlight that weed seeds need to grow
- water needs by protecting soil from losing water to evaporation and run-off
- fertilizer needs by breaking down and adding its own nutrients to the soil
- soil compaction by cushioning the soil below



Mulched home garden

Mulch improves

- appearance by covering bare ground and reducing weeds
- drainage over time by breaking down and improving soil structure
- soil health by adding nutrients to the soil as it breaks down
- plant health by improving soil and growing conditions





What is mulch?

The Arboretum uses medium, shredded fir bark mulch because it is attractive, durable and natural-looking. Notice this mulch around you in the Valley-Wise Garden.

How do I select mulch?

How much mulch do I need?

How often should I mulch?



Ruth Risdon Storer Garden-A Valley-Wise Garden

WHY SHOULD I USE mulch?

Mulch protects the soil and improves the appearance of the home garden.

Mulch reduces

- weeds by blocking sunlight that weed seeds need to grow
- water needs by protecting soil from losing water to evaporation and run-off
- fertilizer needs by breaking down and adding its own nutrients to the soil
- soil compaction by cushioning the soil below



Mulched home garden

Mulch improves

- appearance by covering bare ground and reducing weeds
- drainage over time by breaking down and improving soil structure
- soil health by adding nutrients to the soil as it breaks down
- plant health by improving soil and growing conditions

What is mulch?

The Arboretum uses medium, shredded fir bark mulch because it is attractive, durable and natural-looking. Notice this

How often should I mulch?

Apply mulch at least once a year or as needed to maintain an optimum depth of 2-4°.

How do I select mulch?

- fine or medium-sized mulch
- · pieces less than 2" long
- Popular kinds of mulches include:
- Shredded bark or wood
- Nut shells
- · Pine needles or other tree leaves

How much mulch do I need?

Small plants 2" deep

Large plants, trees

Pathways and bare ground

If you spread mulch too thinly, you lose its benefits.



Ruth Risdon Storer Garden-A Valley-Wise Garden

arboretum.ucdavis.edu

Ask Dr. Ruth... How Can valley-wise gardening HELP ME?

How can I save money?





How can I have more free time?

How can I live in a more beautiful, healthy environment?



Valley-Wise gardening uses plants and practices suited to Central Valley conditions

arboretum.ucdavis.edu



WELCOME TO THE **Ruth Risdon Storer** Garden-A Valley-Wise Garden



Who was Ruth Risdon Storer?

Dr. Ruth Risdon Storer was Yolo County's first pediatrician and an avid gardener. She shared many of the plants here with the Arboretum and helped to fund this garden. First planted in 1980, this demonstration garden was inspired by Storer's own home garden. Like her garden. it has year-round color, beauty and requires

here for use in Valley-Wise gardens. Explore this garden for Arboretum All-Stars—our top recommended plants.

Ask Dr. Ruth...

How Can valley-wise gardening Help Me?

Valley-Wise Gardeners

- · choose low-water-use plants and have lower water bills
- · spend less on chemical fertilizers and pesticides
- · use long-lived plants that don't need regular replacement







Valley-Wise Garden



Valley-Wise Gardeners

- · spend less time on garden
- · spend less time replacing
- · have less lawn to mow



Valley-Wise Gardeners

- · provide food and shelter for butterflies and birds to create
- a healthier ecosystem · conserve valuable water resource
- · cause less chemical pollution
- · have colorful gardens that buzz





Valley-Wise gardening uses plants and practices suited to Central Valley conditions

arboretum.ucdavis.edu



Ruth Risdon Storer Garden-A Valley-Wise Garden



Who was Ruth Risdon Storer?

Dr. Ruth Risdon Storer was Yolo County's first pediatrician and an avid gardener. She shared many of the plants here with the Arboretum and helped to fund this garden. First planted in 1980, this demonstration garden was inspired by Storer's own home garden. Like her garden. it has year-round color, beauty and requires

> Arboretum staff test new plants here for use in Valley-Wise gardens. Explore this garden for Arboretum All-Stars-our top recommended plants.

ARE APHIDS **eating** your roses:

Instead of using pesticides, try the "buddy system".

Without Buddy Plants



Rose bush without buddy plants

By growing buddy, or companion, plants around your roses, you can attract beneficial insects that eat aphids and other pests. . . without using chemicals!



With Buddy Plants

Healthy, aphid-free rose

Ruth Risdon Storer Garden-A Valley-Wise Garden

arboretum.ucdavis.edu



We eat aphids!

Buddy, or companion, plants provide food and/or shelter to adult beneficial insects. encouraging them to lay their eggs near roses. Hungry larvae then hatch and help control aphids and other pests by eating them.

Ladybird Beetle



Syrphid Fly





Lacewing





AM I high maintenance:

No. I am a low-maintenance rose because I am disease resistant.

When you buy roses, look on the label to see if they're disease resistant. This will save you time, money and effort in your Valley-Wise garden.



Notice the Class Act rose in front of you. It is resistant to common fungal diseases and thrives in the Valley-Wise Garden without the use of pesticides.

High Maintenance

- Roses without disease resistance are prone to unsightly fungal diseases
- In order to look their best, these roses may require high levels of care and fungicide applications

Common Fungal Problems in Roses



Rust





Powdery mildew

Low Maintenance

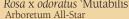
- Roses with disease resistance are easier to care for because they are less likely to get fungal diseases
- These roses are beautiful without needing fungicide

Choose Low-Maintenance Roses











Rosa x odoratus 'Mutabilis' Rosa 'Gruss an Aachen'





Black spot







Ellen Zagory

Why Is There A moon garden IN THE ARBORETUM

It continues a three thousand year-old gardening tradition

Historically, white flower gardens were used by aristocrats of ancient India. and later by English socialites, for outdoor parties before air conditioning was invented. In order to escape summer heat, parties were held in the evening. White flowers were ideal because they shine in the light of the moon.

It provides a wonderful destination for Arboretum visitors

This garden and gazebo are a beautiful setting for weddings and receptions. For reservations, call Campus Events and Visitor Services (530) 752-2675.

It provides food sources for night-pollinating insects

In the evening, many of the flowers in this garden have a stronger scent that attracts night-pollinating moths.



from India is a popular moon garden flower because of its tropical fragrance.

The sphinx moth is attracted to white flowers by their sweet fragrance and visibility at night. As the moth feeds on nectar, it pollinates the flowers. Smerinthus cerisyi (left), and Hyles lineata (right), both

in the Sphingidae family.



Clockwise from top: summer daphne (Daphne x transcaucasica), southern magnolia (Magnolia grandiflora), Argentine rain lily (Zephyranthes candida), and calla lily (Zantedeschia aethiopica).

Any white-flowering plant is

uitable for a moon garden.



WELCOME TO THE **Carolee Shields** White Flower Garden and Gazebo



Carolee Shields (far left), seated behind Judge Shields, host one of the first Picnic Day events in the area that eventually became the Arboretum.

Who was Carolee Shields?

Carolee Shields was the wife of Judge Peter J. Shields, an early champion of the founding of UC Davis. She is credited with starting the long-standing campus tradition of Picnic Day by hosting the first event in 1909.

After Judge Shields passed away, Mrs. along with this garden and gazebo.

The formal white flower garden was planted in 1976 at the suggestion of Mrs. Shields' friends. Ruth Risdon Storer and Alyce Jewett.

test Your watering wisdom

The Valley-Wise Garden is watered only once every two weeks for seven months of the year (April-October). Winter rains take care of the rest.



Plants need the most water during the long, hot days of summer. Turn your sprinklers OFF in the winter; rains provide plenty of water.



Valley-Wise Garden

It is best to water deeply and infrequently. Deep watering means wetting a plant's entire root zone.

- The drought-tolerant plants in the Valley-Wise Garden get deep watering once every two weeks
- The water loving plants in the nearby White Flower Garden and Gazebo get deep watering once a week

Make your irrigation system more water-wise by:

- Learning to use your irrigation controller
- Turning off your watering system during the rainy winter season
- Adjusting irrigation heads to avoid watering sidewalks and pathways
- Using water-efficient spray heads that release
- Using mulch to reduce water loss

Water during the cool *morning* hours to reduce water loss through evaporation.

NO. The secret to a healthy garden is watering deeply and infrequently.

Deep watering means wetting a plant's entire root zone. Constantly wet soils can kill many plants, so allow soil to dry before you water again. New plantings need more water until their roots have started to grow into the surrounding soil. Plant in the fall and let the winter rains water for you.

Even drought-tolerant plants may need daily water if you plant in the spring or summer.







Did you know?

of plant death in many home garden

Ruth Risdon Storer Garden-A Valley-Wise Garden

arboretum.ucdavis.edu

test Your watering wisdom

The Valley-Wise Garden is watered only once every two weeks for seven months of the year (April-October). Winter rains take care of the rest.

How much water do my plants need?

> How much should I water in different seasons?



How can I make my irrigation system more water-wise?

What time of day is best for watering?

Do I need to water everyday?

How much should I water my new plantings?





Ruth Risdon Storer Garden-A Valley-Wise Garden

buddy plants

Provide food For

BENEFICIAL INSECTS

Buddy, or companion, plants like seaside daisy and goldenrod attract adult beneficial insects, adding beauty and function to your garden.



Wayne Roderick seaside dais Erigeron 'Wayne Roderick'



California goldenroo Solidago californica





We eat aphids!

Syrphid fly adults feed on the nectar and pollen of companion plants. Growing these plants in a location close to roses encourages beneficial insects to lay their eggs nearby. Larvae then hatch and can feed on aphids and other rose pest insects.



buddy plants

PROVIDE **shelter** For Beneficial Insects

Buddy, or companion, plants like deergrass and yarrow provide shelter for beneficial ladybird beetles.



Mexican Deergrass Muhlenbergia dubia



Common Yarrow and its hybrids Achillea 'Creamy'





We eat aphids!

Ladybird beetles stay safe by taking cover in these companion plants. Growing these plants in a location close to roses provides the beneficial insects with their favorite foods: rose pests such as aphids, scales, mites, and caterpillars.



Ruth Risdon Storer Garden-A Valley-Wise Garden