

The 2025 Skagit County Master Gardener Plant Fair is scheduled for Saturday, May 10.

Master gardeners explain the types of hydrangeas and when to prune them.



Photo © Sonja Nelson
used with permission by Skagit County Master Gardeners

Ask a Master Gardener

Timely insights on relevant topics from our area's home gardening experts

Warmer Summers Impact Local Rhododendrons

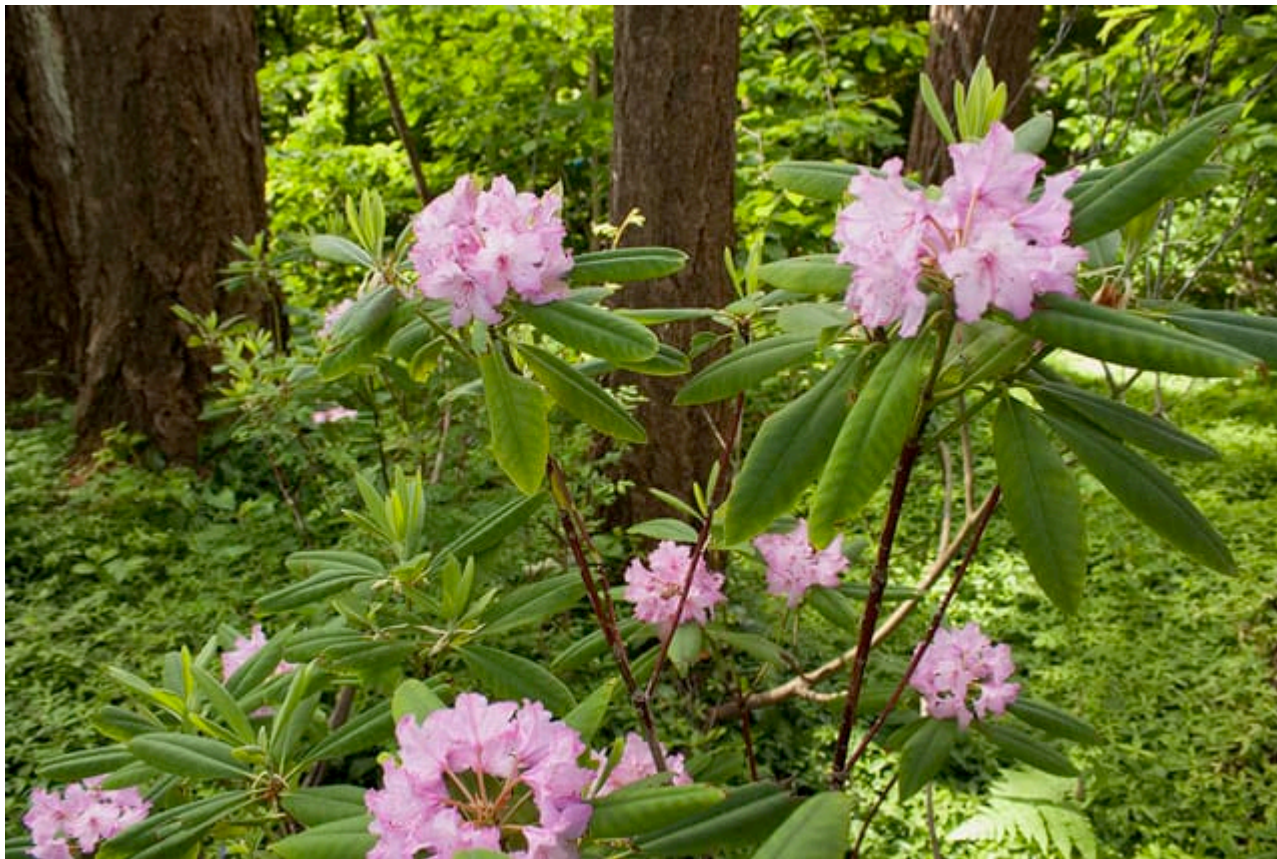
From sun scorch to lace bug, local gardeners protect their beloved rhododendrons with these conscientious tips.



Author Sonja
Nelson

Rhododendrons in our gardens, along with the native state flower *Rhododendron macrophyllum*, the Western or Pacific rhododendron in our woodlands, are facing the vagaries of climate change here in the Pacific Northwest as well as worldwide. Gardeners in our moderate climate can no longer assume our benevolent climate will continue its unstinting support for the genus *Rhododendron*. According to the World Meteorological Organization, the average global temperature in 2024 was the warmest year on record at about 2.7° F or 1.55° C above preindustrial levels. Higher temperatures do not bode well for rhododendrons. They like moderation!

Rhododendrons have a long history in the Pacific Northwest. Native Americans used the flowers of rhododendrons in their dance rituals long before western plant hunter Archibald Menzies identified the *R. macrophyllum*. Menzies was the surgeon-botanist for Captain George Vancouver on board the British ship 'Discovery' in 1792. The *R. macrophyllum*, or Western rhododendron, was sent to King George III and introduced to the Kew Gardens in London. The discovery brought together the British and American plant people who eventually produced a creative milieu communities of rhododendron enthusiasts that made the rhododendron the "King of Shrubs" on both sides of the Atlantic.



References to the Western rhododendron (*Rhododendron macrophyllum*) date back to native Americans using rhododendron flowers in their dance rituals long before the late 1700s. © Photo: Sonja Nelson

One hundred years after Menzies documented finding the Western rhododendron, the state of Washington sought a representative flower to display in the 1893 Chicago World Fair exhibit. The Washington State Fair Commission asked the state's women to decide. A letter-writing campaign began, pitting the native rhododendron against, among others, the clover. (The vote was Western rhododendron 7,704 and clover 5,729.) It was officially designated the Washington State flower in 1959.

However, between the time the Western rhododendron was presented at the Chicago World Fair, rhododendron species from Asia, particularly the Himalayas, had been discovered by dedicated British plant hunters and sent back to Britain to adorn gardens there with their vibrant colors and to hybridize. Many Asian species and hybrids were also brought to America, where nurseries introduced them to the Pacific Northwest. Gardeners welcomed them with enthusiasm and love. And the rhodies loved them back with their stunning performance!

Meanwhile, Washington state's native Western rhododendron grew in its native woodlands as the quietly attractive relative of the more flamboyant Himalayan species. In the 1970s the Western rhododendrons regained popularity as gardening with native plants became popular with the backing of WSU Extension and the Washington Native Plant Society. In 1979, the First

World Climate Conference declared climate change a global issue, and rhododendron gardeners' concern turned to the native Western rhododendron and its environment, along with concern for their rhododendron species and hybrids from afar. The natural environment of the Pacific Northwest, so well suited for much of the genus *Rhododendron*, was becoming jeopardized by temperature increases and other disturbances to its blissful climate.



The Western or Pacific rhododendron is native to the woodlands of the Pacific Northwest. Image © Oregon State University



One of the most sun-hardy of all rhododendrons, the Jean Marie Rhododendron is noted for its large trusses of deep red, trumpet shaped flowers. © WSU Clark County

The complexity of a warming climate makes it difficult to predict precisely how rhododendrons will be impacted by our specific climate and what to do if it does. For instance, if temperatures increased enough to leave visible sun spots on the leaves of rhododendrons, the rhododendrons could simply be moved to a site with partial shade. However, the effect of a warming climate on plants is not always straightforward.

One solution to protect rhododendron gardens from climate change damage is to find varieties-both species and hybrids-that are tolerant of temperature increase and ensuing weather extremes.

A member of the American Rhododendron Society, C.J. Patterson of Massachusetts, has focused his interest in rhododendrons on finding drought-tolerant rhododendrons for East Coast gardens. He writes that “rhododendrons, in general, are mostly very resistant to dry conditions once they are established,” citing *R. carolinianum*, *R. maximum*, and *R. catawbiense* as drought

tolerant. He says one of the most drought-tolerant rhododendron hybrids is the hybrid 'PJM' (*R. minus* var. *Carolinian Group* x *R. dauricum*) and other hybrids of the same cross.

The director of the German Rhododendron Society, Hartwig Schepker, supports the idea that the genus *Rhododendron* is diverse enough to cope with the challenges posed by extreme climate conditions, saying we find them or create new hybrids that will be up to the job.

Another rhododendron expert is Glen Jamieson, the editor of the *Journal American Rhododendron Society*, who often writes about the impact of climate change on rhododendrons, which, he says, has been relatively minor annually. In coming publications, he plans to summarize the weather impacts on his garden in British Columbia over the past 40 years, where there have been extreme cold, heat, precipitation, and wind events-all of which can be attributed to a changing climate.

Since it is difficult, if not impossible, to predict precisely the effects of climate change on rhododendrons in the future, conscientious basic care is the best way to help them survive hard times in the future. Washington State University lists watering, fertilizing, and mulching as basic care.

Basic Care for Rhododendrons

Washington State University Extension recommends this regimen of basic care:

Watering

- Water rhododendrons at least once a week, or when the top inch of soil feels dry.
- Avoid waterlogged soil, which can damage rhododendrons.
- Water well in the fall to prepare for winter

Fertilizing

- Use a fertilizer made for acid-loving plants.
- Fertilize in the spring when buds swell and in the fall after flowering.
- Follow the product label recommendations.

Mulching

- Use coarse organic mulch, like wood chips, to cover the root zone.
- Keep mulch at least 4 inches deep, but don't let it touch the base of the plant.
- Mulch helps conserve water, reduce weeds, and moderate soil temperatures

Other Tips

- Plant rhododendrons in well-drained acidic soil
- Avoid dense or compacted soil
- Provide shade or semi-shade
- Prune out dead flowers
- Avoid overhead watering
- Maintain good air circulation
- Prevent injury to reduce the chance of infection
- Clean up and destroy fallen leaves

A Unique Opportunity to Observe Local Climate Change Impact

The coordinators of the various gardens within the WSU Extension Master Gardener Discovery Garden west of Mount Vernon were questioned about possible damage in their gardens due to recent summers with high temperatures. Five coordinators reported no change, and four coordinators reported slight changes. Ironically, six coordinators reported damage from unusual cold spells. The Rhododendron Garden coordinator, however, reported extensive damage to a large planting of small-leaved rhododendrons due to warming temperatures.





Photo © Sonja Nelson

Rhododendrons are divided into two natural divisions: the lepidotes and the elepidotes. Small-leaved rhododendrons belong to the lepidote division based on the tiny scales on the undersides of their leaves. Elepidotes do not have scales and tend to be large-leaved.

Sun scorch on the leaves of rhododendrons has long been an occasional problem for gardeners, but the warming caused by climate change has introduced a new, insidious avenue for damage—the rhododendron lace bug (*Stephanitis rhododendri*). Believed to have migrated from California, lace bugs have taken advantage of the longer growing season in the Pacific Northwest and can complete their life cycle, where, in 2023, in the Rhododendron Garden, it laid eggs and, as a result, destroyed a planting of rhododendrons.



[Rhododendron lace bug](#) (*Stephanitis rhododendri* Horvath) © [Insect Images Photographers: Seastone, L. and B. Parks](#)



Azalea lace bug (*Stephanitis pyrioides*) © Photo: [Jim Baker, North Carolina State University, Bugwood.org](#)

The lace bug affected rhododendrons with small leaves, mainly in the island meadow section of the Rhododendron Garden, namely hybrids 'Ramapo,' 'Ginny Gee,' and 'Patty Bee.'

The rhododendron lace bug has one generation per year. It overwinters as eggs laid on the underside of leaves. Nymphs are about 1/8 inch long and are spiny. Adults are about 1/8 inch long and whitish tan with lacy-looking wings. Damage is usually apparent by early to mid-July. The lace bug sucks on the undersides of leaves and causes stippling on the upper surface of the leaves and tar-like deposits of excrement on the lower surface. Repeated infestations may result in yellowed, sickly plants. Spraying the undersides of the plants to remove the lace bugs was considered impossible because the leaves grow so densely and so close to the ground; thus the affected plants were removed. New planting will take place in 2025.

The related azalea lace bug (*Stephanitis pyrioides*) has four to five life cycles annually. It infects rhododendrons also but has not been found in the Rhododendron Garden section of the Discovery Garden. Both types of lace bug overwinter.



Lacewing insect © Insect Images:
Photographer: Johnny N. Dell

The lace bug is not to be confused with lacewing insects (*Chrysoperla* species) which are native to the Pacific Northwest and important natural predators providing biological control of aphids.

Treatment for Lace Bug

For non-chemical treatment, Washington State University recommends hand removal of adults and nymphs regularly to limit the amount of visible damage. This can be done with a strong spray of water.

If you choose to use a chemical treatment, two recommended pesticides that are legal in Washington are:

- **Safer Brand BioNEEM Multi-Purpose Insecticide and Repellent Concentrate [Organic]** Active ingredient: azadirachtin [*EPA registration number: 70051-6-42697*]
- **Safer Brand Garden Defense Multi-Purpose Spray Concentrate [Organic]**
Active ingredient: clarified hydrophobic extract of neem oil [*EPA registration number: 70051-2-42697*]

The best time to treat is May and June. For more information, download the WSU fact sheet on rhododendrons and lace bugs @ (<https://hortsense.cahnrs.wsu.edu/fact-sheet/rhododendron-rhododendron-lace-bug/>).

The Rhododendron Garden in the Discovery Garden allows the public to view plants as they grow in our specific climate. The damage to some of the small-leaved rhododendrons is sad to see, but it gives gardeners the knowledge to make necessary changes in their gardens to keep them beautiful.

Soon, spring will once again bring forth the eye-catching, luscious blooms on the rhododendron hybrids planted in our gardens and the quietly elegant blooms of our native Western rhododendron at the edges of our woodlands.

REFERENCES AND RESOURCES:

Dale-Crunk, B. (2024) Personal communication.

NASA <https://climate.nasa.gov/vital-signs/global-temperature/?intent=121>

Skagit Climate Science. *Air Temperature and Precipitation* Retrieved at: (<http://www.skagitclimatescience.org/skagit-impacts/temperature-and-precipitation-and-ecosystems/#nw-is-warmer>).

Washington State University. (2024) *Rhododendron: Rhododendron and Lace Bug* Retrieved at: (<https://hortsense.cahnrs.wsu.edu/fact-sheet/rhododendron-rhododendron-lace-bug/>).

Pojar, J. and MacKinnon, A. (1994) *Plants of the Pacific Northwest*, B.C. Ministry of Forests and Lone Pine Publishing

Nelson, S. (Compiler) (2001) *The Pacific Coast Rhododendron Story* American Rhododendron Society. Binford & Mort Publishing, Portland, Oregon.

University of Washington: *Pruning and Caring for Rhododendrons*. <https://depts.washington.edu/hortlib/pal/pruning-and-caring-for-rhododendrons/>

Washington Native Plant Society (2022) *Coast Rhododendron: Washington's State Flower* Retrieved

at: <https://www.wnps.org/blog/coast-rhododendron-washington-state-flower?highlight=WyJyaG9kb2RlbmRyb24iXQ==>

World Meteorological Organization (2025) *January 2025 sees record global temperatures despite La Niña* Retrieved at: <https://wmo.int/media/news/january-2025-sees-record-global-temperatures-despite-la-nina>

ABOUT THE AUTHOR:

Sonja Nelson is a Skagit County WSU Extension Master Gardener, Class of 2009.

Questions about home gardening or becoming a master gardener may be directed to Skagit County WSU Extension Office, 11768 Westar Lane, Suite A, Burlington, WA 98233; by phone: 360-428-4270; or via the website: www.skagit.wsu.edu/mg

Washington State University Extension helps people develop leadership skills and use research-based knowledge to improve economic status and quality of life. Cooperating agencies: Washington State University, US Department of Agriculture, and Skagit County. Extension

programs and policies are available to all without discrimination. To request disability accommodations contact us at least ten days in advance.

Capture the seasonal flavors by preserving fresh herbs. Get started drying, freezing, dehydrating and enhance your meals deep into the winter.

Master Gardener Jessamyn Tuttle explores the many wonderful bulbs which, if planted now, will bloom as early as late January.

Master Gardener Sheri Rylaarsdam shares the fun of getting started saving and sharing seeds from your garden.

Join us for a day of discovery and learning at the Skagit Master Gardener’s Discovery Garden in Mount Vernon

Skagit County WSU Extension Master Gardeners are preparing for their 2023 Plant Fair at the Skagit County Fairgrounds in Mount Vernon on May 13. Free Admission

Master Gardener Diana Wisen discusses slug damage and eradication, one of the most discussed topics among PNW gardeners.

While hard to find in flower nurseries it is possible to start lisianthus from seeds. Mastering the

seed-starting techniques was a months-long process, but well worth it.

Ask a Master Gardener

Timely insights on relevant topics from our area's home gardening experts



Master Gardeners share their overwintering techniques



[Facebook](#)



[Pin](#)



[Email](#)

By Anne Hays, Skagit County WSU Master Gardener



Anne Hays is a
resident of La
Conner and a
Skagit County
Master Gardener

Dahlias, first imported from Mexico and Central America, provide a rich and enthusiastic floral display in Pacific Northwest gardens. Continuous hybridization of Asteraceae has resulted in the development of a plethora of colors, flower forms, and sizes. The blossoms can be as tiny as the minion under 2 inches, or as large as the giant or dinner plate size at over 10 inches. Conventional wisdom incorporated in most PNW and national reference guides for *Dahlia* growers just about universally recommend digging *Dahlia* tubers in the fall and storing them in a cool dry place. The reference materials I consulted noted that while dahlias are considered hardy in our zones – digging and storing is their preferred recommendation for overwintering dahlias in our Zones 8-9.

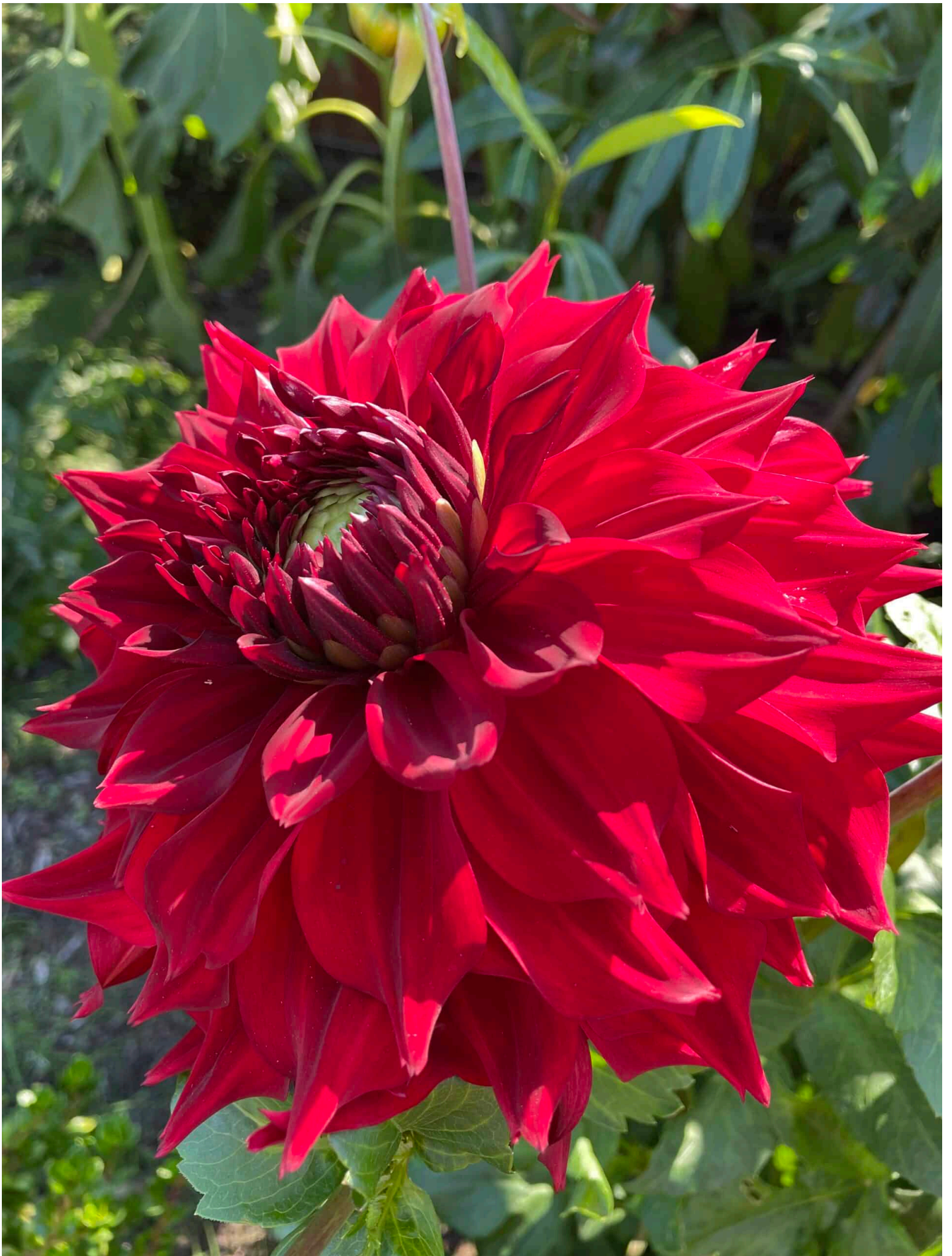
I then looked out my window. My street garden is abundant with tall, healthy dahlias, and I didn't dig them last winter. So, I decided to do a very unscientific survey of WSU Extension Skagit County Master Gardeners to see what their preferences and protocols for digging dahlias and overwintering them indoors.

Master Gardeners are a treasure trove of local gardening knowledge, underscoring the depth of their experience and knowledge and differing opinions. Their gardens represent a variety of unique "microclimates" found in our area. The following is a brief synopsis of replies I received with a notation on where their garden is located.

Karen from Camano has ten years' experience raising dahlias. At first, she was a *Dahlia* digger, but now she leaves them in the ground after struggling with mold issues trying to store them. She cuts her 150 *Dahlia* stalks after the first frost, covers them with a layer of mulch and then with sword ferns and rocks to keep water from rotting the dahlias.



Among gardeners, selecting a favorite *Dahlia* is unique to each individual. Dahlias range in size from under 2" to over 10" and are classified into 18 categories by form. *Photo by Anne Hayes*



The Thomas Edison dahlia is a beautiful example of the deep vivid hues found among the fifteen different colors and color combinations recognized by the American Dahlia Society. *Photo by Anne Hayes*



Though the dahlia's origins can be traced back to the high mountains of Central America, the plants thrive in the moist, moderate climate of the Pacific Northwest, blooming from midsummer until the first frost.

Jan from La Conner is a recent convert to the in-ground overwintering school of thought. Until last year she routinely dug her dahlias, wrapped them in newspaper and stored them in plastic. She left them in the ground last season and intends to again, though she plans to cover the planting area with cardboard and heavy mulch.

Rin from Anacortes describes her soil as sandy and has determined her tubers do best when left in the ground — mostly because she hasn't found an overwintering strategy that doesn't result in mold issues.

Linda from Orcas Island digs her tubers, being careful not to damage or pierce the tubers. She then rinses the soil and lays them flat to dry for a day or two. She brushes the tubers — inspecting them for any signs of rot and places them in cardboard boxes using vermiculite. She places the top of the box on the tubers after barely moistening the vermiculite. She does not allow the tubers to touch and stores the box in her basement.

Allison on Samish Island digs her dahlias and stores them in cardboard with peat moss on top in a cool dry place in her garage.

Among all the WSU Extension Skagit County Master Gardeners I contacted, dividing dahlias is typically undertaken every three years in the spring. Many of the local Master Gardener's caution that new *Dahlia* starts are "slug candy" and recommend careful slug containment and control at the start of a new *Dahlia* season. Dahlias need good soil, enriched with organic matter and some recommend bone meal. Planting depths vary from 6 inches to one foot, and many recommend placing stakes for larger varieties as you plant the tubers to avoid damaging the tubers.

I also asked each of the responders for their recommendations on their methods for placing cut dahlias in display vases. The consensus was to place them in water as soon as possible using a fresh cut and change the water frequently. Many mentioned using a floral preservative.

What was abundantly clear from the replies I received is the passionate enthusiasm among those in *Dahlia* growing communities! Color, abundance, ease of growing, all were mentioned as reasons to add dahlias to your garden. If you decide to include dahlias in your garden next spring, the WSU Extension Skagit County Master Gardeners are available at Plant Clinics throughout the county to offer guidance and answer questions. Please don't hesitate to give us a call at 360-428-4270 to be directed to a Plant Clinic near you.

Resources:

Gardening in the Pacific Northwest, Carol Hall & Norman Hall, Timber Press, 2008 Ornamental Bulbs, Corms & Tubers, A. R. Rees, C A B International, 1992

Sunset Western Garden Book, Sunset Publishing, Edited by Kathleen Norris Brenzel Gardening in the Pacific Northwest, Paul Bonine and Amy Campion, Timber Press

Questions about home gardening or becoming a master gardener, may be directed to: WSU Skagit County Extension Office, 11768 Westar Lane, Suite A, Burlington, WA 98233; by phone: 360-428-4270; or via the website: www.skagit.wsu.edu/mg

Washington State University Extension helps people develop leadership skills and use research-based knowledge to improve economic status and quality of life. Cooperating agencies: Washington State University, U.S. Department of Agriculture, and Skagit County. Extension programs and policies are available to all without discrimination. To request disability accommodations contact us at least ten days in advance.

