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Native Plants and Native Landscapes

NELA Master Gardeners 10th Annual January Gardening Seminar

Saturday, Jan. 18
7:30 a.m.

West Monroe Convention Center
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\$20 admission

Speakers include:

Tammany Baumgarten,
*GNO Master Gardeners and
BaumGardens Landscaping
Service*

Dr. Charles Allen,
Allen Acres Bed & Breakfast
Dr. Dwayne Estes, keynote,
*Southeastern Grassland
Initiative*

Special guest, legendary seed
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Thoughts on Pruning Ornamental Trees and Shrubs

When it comes to gardening during the winter months, the first chore that we all think about is pruning. To prune your landscape successfully, you must follow a few guidelines.

Why you should prune?

Prune for a purpose. Planting the right plant in the right place can minimize the need for most pruning. However, even expert gardeners can make this mistake. Pruning can keep limbs and branches away from buildings, power lines and parked vehicles. Other reasons you might want to prune is to open sightlines, give vehicles clearance to your driveways or remove dead or broken branches. Pruning can help improve a tree's structure or reduce shade and improve its wind resistance. It can also enhance the aesthetics of some plants or manage flower or fruit production.

When should you prune?

The time of year that you prune plants is important. Since most pruning is done for size control, when making the decision to prune you should consider a few things. What time of year is your plant flowering? What about its fruiting habits? If needed, summer-flowering plants, such as the crape myrtle, oleander or vitex, can be pruned now. If you are looking to prune your azaleas, remember the time to prune those is immediately after flowering. If you prune them now, it will mean you would lose next



"Crape murder" is the extreme cutting back of mature branches on crape myrtles. It will cause shoots to grow that are weaker or thinner than the primary limbs. This pruning technique makes them more susceptible to insects, diseases, decay and overall poorer tree health. It will also shorten the lifespan of your tree.

season's flowering. When making pruning decisions, also consider the weather. It is best to avoid pruning plants under stress in extremely hot and dry weather. It would be more effective to wait until January or February to prune large trees or evergreen and deciduous plants that do not flower in the spring. This is also a good time to trim back your ornamental grasses before any new growth emerges. If you are still unsure of the time of year to prune your plant, the LSU AgCenter website is a great resource for researching your plant's growing characteristics.

How to prune

There are a few techniques you should consider when you have determined that you need to prune.

Thinning out: Cutting a branch or new growth back to the main branch to prevent overcrowding of branches. This method helps maintain the plant's natural shape. This will promote stronger growth to the remaining branches.

Shearing: Tip or new growth removal to create a hedge or formal design.

Heading back: Removing the tip or shortening of branches similar to shearing. This can encourage a more bushy growth. This technique is most often used to control a plant's size.

Removing: The removal of some branches back to the main branch, truck or soil line.

Topping: Involves cutting the tops off to reduce plant height.

Other Considerations:

1. It is best to prune plants with the correct tools. Be sure your equipment is clean and sharp. Sharp equipment makes cutting easier and helps avoid pulling or tearing plants, making them heal more easily. Keeping your equipment clean should alleviate the spreading of disease between plants.
2. When pruning large trees that go beyond your equipment and ability level, call a professional. To find a licensed arborist in your area, visit the Louisiana Department of Agriculture and Forestry website.
3. Remember, pruning is not always necessary. If a plant is planted in the wrong place and has outgrown its location, remove it. This gives you the opportunity to plant something fresh and new that is appropriate for that space. That will bring you more joy than an overgrown tree that has been overpruned and looks disfigured.
4. If you are still unsure how to prune, ask for help! Reach out to your local extension office to discuss reasons why or why not you should prune your plant.



Poinsettia cyathia.

Caring for Poinsettias

The holiday season is here again, and it is time to start decorating! The poinsettia is an essential Christmas plant. I love to see them used in many different settings. They add color to your fireplace mantel, or they can be used in your table décor for Christmas dinner. These holiday plants come in many color choices other than the widely used reds. You can find them in white, pink, maroon, and even speckled or marbled.

Poinsettias, which are native to Central America, were brought to the United States by botanist and physician Joel Roberts Poinsett. In South Carolina he began propagating the plants and sharing them with his friends and other botanic gardens. Congress honored Joel Poinsett by declaring December 12 National Poinsettia Day, remembering the date of his death in 1851.

When making your plant selections, start off with a healthy, undamaged plant. With proper care, your poinsettias should remain beautiful for several weeks. They prefer a comfortable room temperature around 70 degrees and need daily exposure to sunlight away from cold drafts and heating vents. Try avoiding dark interiors, such as hallways. Most people overwater their poinsettias. The soil should be dry to the touch before you water each time. It is also not necessary to mist poinsettias or wet the foliage when watering. Most poinsettias come with a decorative wrap around the pot. Remove this wrap while watering so that the water can drain from the bottom. Once draining is complete, you can replace the wrap.

Following these easy steps should help you keep your Christmas poinsettia healthy and attractive this holiday season!

*Kylie C. Miller
Horticulture agent, Catahoula, Concordia and Tensas Parishes*



Jolt Cherry dianthus Pink Magic. Photo by Ashley Edwards



Introducing the Fall 2019 Louisiana Super Plants Induction: Jolt Dianthus

Are you looking to give your winter landscape a pop? Consider incorporating Jolt dianthus into the garden. Some of the best cool-season bedding plants we have available in Louisiana are interspecific dianthus, and the Jolt series dianthus are no exception. Jolt offers a more compact interspecific dianthus than Amazon dianthus (also a Louisiana Super Plant named in 2010) while keeping the abundant flowers and great color. Moreover, Jolt dianthus are some of the most heat-tolerant interspecific dianthus we have, making them a perfect addition to your Louisiana landscape. Jolt dianthus will continue to bloom into the early summer months, giving you that extra push to carry your landscape into the warm season. Jolt dianthus can be planted in early fall in Louisiana landscapes. Like most bedding plants, they are susceptible to extreme freezing temperatures in the winter, so be sure to take appropriate actions if it gets too cold. However, once established Jolt dianthus can tolerate temperatures into the low 20s Fahrenheit. Jolt can also be planted in late winter for an amazing pop of color throughout the

spring and early summer. Jolt dianthus have excellent dark green foliage that provides an additional pop to the three amazing bloom colors, Pink, Cherry and Pink Magic. Jolt dianthus is also great for attracting butterflies in the later fall and early spring.

Visit your local nursery or garden center today to pick up Jolt dianthus for your cool-season landscape. Plant Jolt dianthus in raised beds and in full sun, or try in containers for a more eye-catching porch or small landscape. Space them about 8 to 12 inches apart in landscapes to provide adequate room to grow and fill. You do not need to deadhead Jolt, but it will promote additional flowering.

For more information on Jolt dianthus or any other Louisiana Super Plants, contact your local AgCenter extension office or visit www.LSUAgCenter.com/SuperPlants.

*Dr. Jeb S. Fields
Ornamental Horticulture Specialist*

Winter Gardening

Gardening not only provides you a form of exercise but also will increase the amount of fruits and veggies in your refrigerator (if you water and fertilize). Instead of a New Year's resolution to make a healthy change in January, start in December by ending the year and beginning the new year on a great garden note!

Monthly Garden Tips

December is the last month I think of as actual winter. January and February to me are very early spring. So, in this last month of winter here are a few to-do items to help keep the garden active!

December

- Scout lettuce, strawberries and all cole crops for insects. Aphids, slugs, snails and worms tend to cause problems in the winter garden. Insecticides such as horticulture oil, insecticidal soap and Bifenthrin products (Ortho Bug –B-Gon Max) work great for aphid control. Insecticides that kill worms and loopers include Sevin, Bt (Dipel) and spinosad. Snails and slugs are best controlled with baits. Early evening is when these pests feed. You want the baits to smell strong, so apply baits in the early evening for best results.
- Plan on planting potatoes? Till and hip rows in the garden now. Early January can be very wet.
- Plant onion sets. Choose sets that are thin, the size of a pencil or thinner. Thicker plants tend to bolt in cold weather and set seed rather than form a bulb.
- Cover blooming strawberry plants when temperatures drop below 32 degrees. Plants not in bloom? No need to cover.
- Order spring vegetable seed now if you want first pick of the great varieties. Wait too long and other gardeners will order all the good varieties.



Strawberry plants.



Cabbage.

January

- Onions can be planted from mid-December to early January. In early January, continue to plant onion sets. Bulbing onion varieties that perform well include but are not limited to: Texas Grano, Mr. Buck, Texas 1015Y, Pinot Rouge, Red Burgundy and Miss Megan.
- Mid-January through the end of February: Transplant broccoli, cabbage, cauliflower, chard, kale and lettuce.
- Mid-January: Plant Irish potatoes into the garden. Cut the potatoes a few days before planting. Cut larger potatoes in quarters and smaller potatoes in half. This larger size helps reduce rot.
- Vegetable growers in south Louisiana should start their tomato, eggplant and pepper transplants mid-January. North Louisiana vegetable growers should wait until the end of January or the beginning of February. It takes between eight and 10 weeks to germinate and grow into a decent-sized tomato, pepper and eggplant seedling for the garden. Keep seedlings in a warm and bright area. One week prior to transplanting, move the seedlings outside to harden off.

February

- Continue to transplant broccoli, cabbage, cauliflower, chard, kale and lettuce transplants into the garden. Successive planting (a portion of a row or a new row) every two weeks ensures a steady harvest.
- Direct-seed beets, turnips, mustard, parsley, radishes, lettuce, snap beans and Irish potatoes.
- Leave space for spring crops, which will go into the garden in March and April!

*Dr. Kathryn Fontenot
Vegetable Crops Specialist*



Checklist for December, January, February



Plant trees in the winter.

December

1. It should be time to put away the mower. This is a great time to sharpen mower blades and take care of any mower or weed trimmer maintenance before storing for the winter. Check spark plugs and change the oil. You can also sharpen tools. Oil them to prevent rusting.
2. Deadhead or remove old flowers from your cool-season bedding plants to extend blooming and improve flower performance.
3. Rake fallen leaves of deciduous plants and trees and keep the leaves to use as a mulch or to compost.
4. In landscape beds, plant your tulip and hyacinth bulbs later this month. Tulips and hyacinths must be refrigerated for six to eight weeks before planting in late December or early January.
5. Protect the roots and rhizomes of tropical plants by spreading a 4-to-6-inch layer of mulch around the base of the plant.
6. Heavily mulch citrus trees and other cold-sensitive trees and plants and cover them in extended periods of below freezing weather.
7. It's still a good time to plant trees and shrubs this month.
8. Be sure to bring in any tropical plants in containers to protect them from freezing temperatures.



January is a great month to prune roses.

January

9. Now that you've refrigerated your bulbs for the six to eight weeks that are recommended, it's time to plant your tulip and hyacinth bulbs.
10. Some hardy perennials that can still be planted this month are delphinium, foxglove and French hollyhocks. Annuals that are blooming this time are alyssum, calendula, flowering cabbage and kales and pansies.
11. Prepare rose beds for planting later this month. Prune ever-blooming roses in late January or early February. Landscape roses, like the popular Knock Out roses, should be cut back by about one-half their height. But do not cut them back lower than 2 feet from the ground). The end of January is a great time to trim your ever-blooming roses to flush out a new blooms for the spring.
12. January and February are good months to prune landscape trees and any deciduous and evergreen plants that don't flower in the spring.
13. It is a good time to plant trees and shrubs while they are dormant. Some native trees for your consideration: honeysuckle azalea, red buckeye, Eastern red cedar, fringe tree, parsley Hawthorne, ironwood, wax myrtle, redbud, river birch, and yaupon holly.



Supertunia Vista Bubblegum Petunia. Photo by Allen Owings

February

14. Add color to your landscape with cool-season bedding plants, such as alyssum, calendula, cabbage, dianthus, gerbera daisy, hollyhock, lobelia, pansy, petunias, snapdragons and violas.
15. Plant gladiolus in late February in south Louisiana. Prolong the blooming season by planting at two- to three-week intervals for a couple of months.
16. Prune your roses on or around Valentine's Day and begin a preventative spray program alternating fungicides for blackspot and powdery mildew. Finish pruning evergreens and summer-blooming shrubs — not azaleas, hydrangeas or spireas. Fertilize shrubs with one-quarter pound of complete fertilizer per square yard and fertilize trees using 1 to 2 pounds per year of age.
17. February is the ideal time to fertilize trees.
18. Trim back dormant ornamental grasses in late February. It is important to remove the brown leaves before the new growth emerges and mixes with the dead growth.
19. Watch azaleas in February for lace bugs. They cause the foliage to have numerous small white spots, and they feed underneath lower foliage. Control them with horticultural oil sprays or Orthene.
20. Look for Louisiana Super Plants at your local nurseries. Louisiana Super Plants are selected for their outstanding performance around the state and are "university tested and industry approved." Cool-season bedding plant Super Plants that can be planted now include: Homestead Purple verbena, Swan columbines, Redbor kale, Camelot foxgloves, Amazon dianthus, Jolt series dianthus, Sorbet violas, Supertunia Vista Bubblegum petunia and Mesa gaillardia.

Hardy shrub Louisiana Super Plants selections that can be planted now include Belinda's Dream roses, Drift roses, Shishi Gashira camellias, Conversation Piece azaleas and Leslie Ann sasanquas.

*Dr. Heather Kirk-Ballard
Consumer Horticulture Specialist*

Fall is the Best Time to Plant Fruit and Nut Trees

Winter is rapidly approaching, and one of the things that many gardeners like to do is plant their fruit trees in the fall to get a head start for the spring. A couple of good questions to ask ourselves are why is this done and how does it work? This practice has traditionally been done in our area because of our milder winter and warmer soil temperatures that enable root growth much later in the season than in colder climates. This means that the true benefit is limited to a small window in the fall before we have our first sustained temperatures below freezing. Once the soil temperatures get below 7 degrees Celsius, or 45 degrees Fahrenheit, root growth will markedly decrease for the remainder of the season.

With that in mind, the added benefit of extra root growth in the fall does not mean your efforts for spring establishment should be lax. Many gardeners mistakenly believe that because they planted something in the fall, the amount of water needed in the spring for those plantings will be greatly reduced. That is not the case! In fact, I often recommend a spring planting to break that mindset and encourage better establishment care. Since you are reading this article, I believe that you can be trusted to plant in the fall and maintain a good establishment regimen in the spring.



McMillian pecans.



Carya illinoensis pecan variety Candy. Photo by Tom Pope.

Now let's take some time to go over some planting basics and good spring establishment care.

More should go into planting a fruit tree than just digging a hole with hope. Ideally you should have a recent soil test and know the drainage properties of your soil. Any nutritional corrections needed should be done well in advance. You don't want to plant a fruit tree in an environment where it will have direct contact with any fertilizer as it will burn the tree's sensitive roots. This means in no situation should you add fertilizer to a hole in which you are about to plant a tree!

For drainage information you should dig a hole like the one you would dig to plant a tree. Fill it up to the brim with water. If it drains fully before three hours, your soil likely has a high sand component and you will need to provide extra water for establishment. If it is still holding water after four hours, your soil likely has a high clay component and drainage is hampered.

How you plant your tree is dependent on your local soil type. I generally prefer to dig a hole just big enough for the bareroot or container-grown tree that I am planting. It may be tempting to dig a larger hole and condition the soil around it, but in many cases, this can ultimately delay plant establishment and discourage it from sending roots into the native soil. Always remember to adequately water in any new plantings. This will remove any lingering large air pockets that could desiccate roots and set back your tree.

Finally, one of the major things to consider with new plantings is cultivar selection. You can do everything else right and then end up with lackluster results by planting the wrong thing. Because my area of expertise is pecans, I will focus on that. Pecan cultivars suited for home production must have scab resistance. In that regard, I would focus on Elliot and Syrup Mill as a great production pair. Elliot has long been recognized for its scab tolerance, and because it has a smaller nut, it is easier for the tree to fill up than larger cultivars. I would also strongly recommend some cultivars from Auburn University selected specifically for the homeowner market: Gafford, McMillan and Amling. They are noted for their disease resistance, and though they may not be as productive as other industry mainstays, they more than make up for it in ease of cultivation.

Care does not stop once you have planted your tree. I recommend watering new plantings thoroughly at least once a week during the growing season. If you receive rainfall events totaling an inch of precipitation, you can delay your watering until the next week. I would continue this regimen for at least two years after planting and, ideally, continue it indefinitely for the best quality production.

Be sure to consult your local extension agent before any major horticultural endeavor. An ounce of prevention is worth a pound of cure!

Cordiali saluti,

Dr. Michael Polozola II
Horticulture Agent and Pecan Specialist

Winter Turfgrass Management

The dormant season for turfgrasses begins in December

December begins a bleak time for warm-season turfgrasses. Most lawns should be dormant or at least close to this stage by Christmas. Because lawns are not actively growing, fertilizer applications are not needed during the winter. Actually, you should have stopped nitrogen fertilization on home lawns by late summer (late August to very early September for St. Augustinegrass and centipedegrass).

Nitrogen fertilizer on dormant to semi-dormant St. Augustinegrass, centipedegrass and zoysia lawns can lead to increased brown patch and winter kill. Also, nitrogen applications during this time have a greater potential for leaching or movement into non-target areas.

Soil sampling and pH adjustments

Winter is an excellent time to collect soil samples and submit them for analysis. Samples should be a composite of soil collected from

3 to 4 inches deep at various places around the lawn. Mix well and reduce the sample to about a pint of soil and take it to the LSU AgCenter extension office in your parish or to a participating garden center. Make sure to specify the type of grass you are growing on the soil test form.

Soil samples submitted to the LSU AgCenter result in a wealth of information concerning the overall fertility of your soil. If results of the soil test indicate the soil pH is too acidic, lime will be prescribed in the soil test recommendations. Sulfur may be prescribed for soils that are too alkaline. Winter is the best time to apply lime or sulfur so that it can be activated for the growing season next spring and summer. The correct soil pH is extremely important and has everything to do with nutrient availability and fertilizer performance.

Turf establishment

Postpone any permanent warm-season turfgrass seeding until next spring. Soil and air temperatures will be too cold for germination and growth.

Sod, such as St. Augustinegrass and centipedegrass, can be laid during winter and established successfully during the spring. But remember to maintain good moisture to prevent the sod from dying. Establishment of sod is easiest, however, when sodding is delayed until the middle of spring, well after spring green-up.

Large patch disease (formerly brown patch)

Large patch disease can come and go throughout the winter if the weather is mild. Treatment with fungicides containing myclobutanil, propiconazole, pyraclostrobin, and triticonazole and azoxystrobin will reduce the spread of large patch. Damage from large patch will slow spring green-up, and diseased areas will remain unsightly until warmer spring weather conditions help with turfgrass recovery. These diseased areas are more prone to weed problems.



Lawn burweed has seed capsules with painful sharp spines.

Winter weed management

Broadleaf weeds, such as clover and lawn burweed (sticker weed), and annual bluegrass infesting St. Augustinegrass, centipedegrass and zoysia and dormant bermudagrass can be suppressed with a late fall application followed by a winter application of atrazine herbicide. The window for these atrazine applications is from November to early March. Herbicides containing a three-way mixture of 2,4-D and dicamba and mecoprop (trimec-type herbicides) can be used for winter broadleaf control on the same lawns that were sprayed with atrazine. MSM (metsulfuron) works well on lawn burweed and is highly effective on clovers and false garlic. Weed-and-feed products can be substituted as your first application of fertilizer during the early spring.

When should you resume fertilizing your lawn

Lawns may show signs of green-up in southern Louisiana in late February. Do not push turfgrass growth with fertilizer at that time! Fertilizer applied too early will feed winter weeds and will result in lush turfgrass growth that is more susceptible to injury from late frosts and increased levels of large patch disease. Lawns may be fertilized in the New Orleans area by late March, but delay fertilizing central Louisiana lawns until April. Consider fertilizing lawns in north Louisiana around mid-April.



Winter is a great time to submit soil samples to the LSU AgCenter Soil Lab.

*Dr. Ron Strahan
Turfgrass Specialist*

Boxwood Diseases in Louisiana Landscapes and Gardens

The boxwood (*Buxus sp.*) is an important landscape shrub in Louisiana, the south and the nation. It is a top consideration for commercial landscape professionals in selecting ornamentals for new developments. Boxwoods are considered relatively sturdy, problem-free plants but are susceptible to several plant diseases, including boxwood blight, boxwood dieback, *Macrophoma* blight, *Phytophthora* root rot and *Volutella* blight. Although boxwood blight has been found in several neighboring states, it has yet to be detected from Louisiana.

Macrophoma and *Volutella* blights are foliar fungal diseases and produce tan-colored foliage followed by defoliation leading to random dieback. If left unchecked, these two diseases may considerably decline affected boxwoods under favorable environmental condition. Both these diseases can be successfully managed by integrating best cultural practices with fungicides. Boxwood dieback and *Phytophthora* root rot have become major problems in cultivating boxwoods for the last several years. These diseases have been reported in home and public gardens, landscapes and nurseries.



Figure 2: Bright black discoloration of upper stem caused by *Colletotrichum theobromicola*.



Figure 1: Diseased boxwood exhibiting light tan foliage and healthy crown and root system caused by boxwood dieback.

Boxwood dieback is a foliar fungal disease caused by *Colletotrichum theobromicola*. Currently, it is known to cause disease in English, Japanese, Korean and Baby Gem boxwoods. Symptoms appear as a random dieback of twigs with light-colored foliage that tends to remain attached to affected branches. Symptomatic plants have a healthy crown and root system. A bright black discoloration of the stem is visible immediately under the bark. This bright black discoloration extends all along the infected twigs and differs from dull brown discoloration of the crown region caused by *Phytophthora* root rot.

Boxwood dieback has been detected from boxwood liners and is thought to be introduced to new locations via infected liners. Disease spread from plant to plant is accomplished by poor pruning practices and by the dispersal of conidia (spores produced by various fungi) via rain or irrigation water. Although environmental conditions suitable for boxwood dieback are not currently known, Louisiana's hot and humid weather is extremely conducive for its development.

Because boxwood dieback is a recently discovered disease, effective diagnostic tools and control measures, such as fungicides, are currently limited. Therefore, landscapers and nurserymen should follow good cultural practices and create an environment that is most likely to decrease the spread and development of boxwood dieback. Because removing dead and dying twigs from plants infected by the pathogen is not known to control this disease, all symptomatic plants in the landscape should be removed and destroyed. Use sharp pruning or hedging tools and surface disinfect pruning and cutting tools to reduce its spread. Avoiding unnecessary plant injury during transportation, at planting and during pruning may also help avoid any potential infection by the pathogen.

Nursery owners should closely monitor liners and potted boxwoods for symptoms of boxwood dieback. Suspected plants must be immediately isolated from healthy plants. Propagate new boxwood lines from disease-free mother plants. Growers must follow good agricultural practices, including clean propagation areas free of plant and soil debris, and use of clean tools to avoid introduction of the pathogen during propagation. Remember, symptoms of boxwood dieback may take up to three months to appear after an infection occurs.



Figure 3: *Phytophthora* affected boxwoods exhibiting symptoms similar to those caused by boxwood dieback.



Figure 4: Dull brown discoloration of boxwood crown and root roots caused by *Phytophthora* species.

Phytophthora root rot affects the roots and crown of boxwoods. After infection occurs, roots start to rot and lose their ability to absorb water and nutrients. Reddish brown lesions appear on the infected roots. Rotted roots turn light to dark brown and easily slough off. Aboveground symptoms become obvious after considerable root rot has occurred. In the beginning, random sections in the canopy wilt and turn tan colored. A dull brown discoloration of affected crowns occurs at soil line. As the disease progresses, the entire plant turns a light tan color and defoliation occurs.

Phytophthora is a soil-borne pathogen and produces motile zoospores (infection propagules), which can swim in irrigation water. Soil compaction and poor drainage highly favors disease development. In landscapes, the disease is favored by poor landscape practices that create conditions conducive for disease development, such as deep planting, overcrowding of plants, excessive mulching, over-fertilization, over-irrigation, planting in clay rich soils, soil compaction and poor drainage.

Disease management in the landscape starts with avoiding diseased plants because once *Phytophthora* is introduced, it can persist in soil for a long time. Well-drained soils with good organic matter content are recommended for new plantings. Good cultural practices, including proper planting depth, spacing, fertilization and irrigation, may help reduce infection. Roots injured during planting become highly susceptible to *Phytophthora* infection. In landscapes where disease is prevalent, prophylactic treatment with fungicides containing active ingredients such as aluminum tris,



Figure 5: Current known distribution of boxwood dieback caused by *Colletotrichum theobromicola* in Louisiana.

fosetyl-Al, mefenoxam or phosphite may help avoid infection. These fungicides do not eliminate the disease, and repeated applications may be required to suppress the disease. Follow fungicide labels for rates and frequency of applications.

Laboratory testing is required to confirm boxwood dieback because it can easily be misdiagnosed as *Phytophthora* root rot. Disease management strategies practiced for managing *Phytophthora* root rot will not provide management of boxwood dieback. If you suspect boxwoods exhibiting similar symptoms described in this article, please contact Dr. Raj Singh at 225-578-4562 or rsingh@agcenter.lsu.edu.

Dr. Raj Singh
Plant Pathologist, Director of Plant Diagnostics Center



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