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ARBORETUM**

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We're On The Web!
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Garden Clean-Up Very Important By David Koester, Campbell Co. Extension Agent for Horticulture

You've seen this advice before, but there probably hasn't been a year when putting your vegetable garden to bed properly should be heeded more than this year. The wet growing season has left lots of plants and old produce in our gardens loaded with disease. Many vegetable gardeners are wrapping up the season at this point, as cooler temperatures and less sunshine have caused vegetables to slow in production. Now is the time to think about clean-up and making notes for next season.

Garden clean-up is important for disease and insect management. Spent plants can be removed now, with a total clean-up of all plants after a killing frost. Make sure that diseased debris is removed from the garden. Take special care to remove all tomato and potato vines as well as fruits and tubers; all plant parts harbor blights that may cause severe losses. Be sure to remove all vines and fruits of cucumber, melon, and squash. If corn smut was a problem, destroy all remaining galls by

burning, burying, or depositing in yard waste, to reduce inoculum for next season.

After cleaning up all the crop debris this fall, spade or rototill the soil to bury any the remains.



A great way to recycle food and yard waste: Composting.

The debate continues about whether to compost diseased debris, but here's a guideline. If you are a "hot" or "fast" composter and frequently water and turn

the pile, then it's acceptable to include this debris. However, if you are a "slow" composter who piles waste on with little management, you need to give your debris longer to break down.

End of season note making is important, too. Make notes about how well certain crops did and if you would grow them again, and how you would do things differently next season. For crops that should be rotated, such as tomatoes, make notes about where they could be planted next season. Also seek out more tolerant or resistant crops for next season. Many gardeners throughout the country are experimenting with reduced tillage methods. The thinking is that every time you till or plow, you destroy soil structure. I have been trying this method myself as I only till the row in which the seeds or plants will be placed. Areas between rows are kept mulched. I then rotate next year's plantings to the areas mulched this year. If you do till or plow your garden this fall consider a cover crop.

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FRIENDS OF BOONE COUNTY ARBORETUM

The Four Seasons

New Tribute Program

Friends of Boone County Arboretum proudly announce a new opportunity for the community to contribute to the future of the Arboretum. We now offer exciting options for our supporters to leave a lasting legacy at your Arboretum. Whether it is in honor of someone, a celebration of a special event, or a lasting memorial, we now have multiple options to give in big or small ways.

We frequently hear stories from many people of how their lives are enriched by the Arboretum and how they appreciate the mission it provides to the community. This new program allows our

patrons to publicly display their love and gratitude for generations to come.

Giving options include tribute bricks to be used in sidewalks and memorial garden patios, shrubs, trees, and benches, all of which can be dedicated. Entire gardens or planting beds can be dedicated as well. We also offer options for sponsoring new plant collections, internships, or programming at the Arboretum. A new planned giving option is also available for those who wish to make a more sizeable impact to the long term success of the Arboretum.

You can view our detailed brochure on the giving and tribute options online by following the link to our brochure PDF at:

<http://www.bcarboretum.org/GivingAndTributeProgram.pdf>

Donations of all types can be made securely online with our donation page at:

<http://www.bcarboretum.org/donate.aspx>

Christopher A. Stone
Director, Boone County Arboretum

Events

Halloween Activities
Saturday, October 24
5-7 pm, Shelter #1
Jack-O-Lantern Walk
7:30-9:30 p.m.

Friends of BCA Meeting
Monday, October 26
6:30 p.m., Extension Office

Dig in the Dirt
Tuesday, October 27 and
Tuesday, November 3
(Last Dig in the Dirt of 2009)
9-11:00 a.m., Arboretum

Hardy House Plants for Winter Beauty
Tuesday, November 10
9:30-11:30 a.m., Ex. Office

Winter Tree and Shrub I.D.
Tuesday, November 17
1-4:00 p.m., Ex. Office

Friends of BCA Meeting
Monday, November 23
6:30-8:00 p.m., Ex. Office

Friends Holiday Party
Monday, Dec. 14, 6:30-8:00 p.m., Extension Office

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Don't forget: Memberships to the Friends of Boone County Arboretum make great holiday gifts. Membership perks include this newsletter, discounts to programs and members-only events, note cards and more! Contact Laura Kline to find out more about gift memberships.

A Quick Guide to Pruning By Mike Klahr, Boone Co. Extension Agent for Horticulture

Question: I'm getting ready to start my outdoor "fall clean-up". The trees and bushes in my landscape are getting too big. Is this a good time to cut them back? Should I also be fertilizing them now?

Answer: There is a popular myth or misunderstanding that circulates around at this time of year. It says that fall is the time to do most of your pruning of trees and shrubs, as you "clean up the landscape" for winter. Well, actually that is bad advice for this part of the country. Late summer and fall is a time when trees and shrubs naturally "acclimate" or "harden off" for winter. As the days grow shorter and temperatures cool down, this process takes place on its own... unless we interrupt it by pruning heavily or applying excessive nitrogen fertilizer at this time of year. Pruning and heavy fertilizing with nitrogen are both invigorating processes, stimulating the tree into growth, or at least putting the tree into the "growth mode". This is just the opposite of what is best for the tree right now, as it is attempting to "shut down and harden off for winter". New growth now, or even the internal changes and "dehardening" processes which precede actual visible growth, will result in tender plant tissue that is easily damaged by cold weather, which could lead to a weakened or dead plant by next summer. Pruning cuts now would also leave fresh wounds exposed to the cold. Here are some pruning and fertilizing guidelines for trees and shrubs...



*Landscape trees and shrubs with showy flowers in the spring (flowering before June 1) should be pruned within two weeks after their flowers fade (this includes white-flowering spireas, most lilacs, redbuds, deciduous magnolias, forsythias, etc.). Pruning these plants any time from July through their normal spring bloom time would be like removing potential flowers, since these plants make their flower buds the previous season and then bloom on their old wood.

*Landscape trees and shrubs that start flowering in June or later should be pruned in early March before growth begins (this includes some of the pink-flowering spireas, plus late bloomers such as Butterflybush, goldenraintree, Annabelle Hydrangea, and rose-of-Sharon). These plants make their flower buds as they put out growth in the spring, and then they bloom on the new wood.

*Shade trees can be pruned in March or June (including all types of maples, ash, oaks, honeylocust, etc.). Some trees (like birch, yellowwood, elm, and maple) may

"bleed", or lose sap after being pruned in March. This does not actually harm the tree, but if you want to avoid it you can wait until June to prune these species (although branches will be heavier and bulkier to haul away due to all the leaves at that time).

*Most evergreens are best pruned in March or April, but prune the true pines in June. Evergreens will need a heavy watering in late fall.

*Never "top" trees (rounding them off by cutting all the branches to the same height (also known as "dehorning" or "hat-racking"). This is very harmful and disfiguring to the tree. Hire a certified arborist to prevent this common practice.

*Dead wood, basal sprouts, and other minor pruning can be done at any time of year without harming the plant. Hazardous branches or trees should be removed immediately.

*Apple and pear trees should be pruned in late February to early March. Peach and nectarine trees should be pruned just after bloom, so that pruning can be modified based on the number of flowers surviving late spring freezes.

*Fruit trees should be fertilized in February, based on soil test results. Landscape trees and shrubs should be fertilized in late November or early March, based on soil test results. Following these guidelines will help assure strong, healthy trees in the years ahead.

Fall Recipe: Fresh Apple Cake from www.boonecountymarket.org

Cake:
3 eggs
1 tsp. vanilla
2 cups sugar
1 cup oil
2 1/2 cups self-rising flour
1 tsp. cinnamon
2 cups peeled and chopped apples
1 cup chopped walnuts
Preheat oven to 350 degrees. Grease and

flour 13x9x2-inch Pyrex pan. Cream eggs, vanilla, sugar and oil. Sift flour with cinnamon and nutmeg. Add to egg mixture along with chopped apples and walnuts. Mix all together until blended. Pour batter into prepared pan. Bake for 35-40 minutes.

Topping:

1 (14 oz.) can Eagle Brand sweetened, condensed milk

1/2 stick margarine
1 tsp. vanilla
1/2 cup sugar
Mix together and cook (slowly) until well-blended. When cake is done, remove from oven and punch holes in hot cake. Cover with topping mixture. Makes 20 servings.

Per serving: 391 calories, 5g protein, 50g carbs. 1g fiber, 20g fat, 39mg cholesterol

Collection News

The weather continues to be a roller coaster. August 27th was the only 90+ day this year at a blistering 91°F. However, it was surrounded by days with highs only in the lower 70s - a pattern that was repeated frequently throughout the summer. Rainfall was barely measurable for 27 straight days from mid August into September, but we have since been getting downpours of several inches about every 10 days. Overall we've had a cool, wet end to the growing season, as evidenced in our collection several ways. Most of our annuals and perennials in the driveway and at the main trail entrance have performed very well, although select plants didn't like having "wet feet". A few of the warm climate plants couldn't figure out what to do - the crape myrtles didn't flower much, and although fig fruits were produced, most never ripened. Cool climate trees and shrubs, such as

birch and conifers, seemed to breathe a sigh of relief as they recovered from several years of heat and drought. The persimmons had a great fruit set this year, perhaps also related to the ample rainfall.

As Emerald Ash Borer continues to push closer to the Arboretum, we are looking at options for preserving the ash trees. Combining the collection areas with the high-priority natural areas, approximately 70 trees are in need of protection. Several chemical controls are now available, each with a different duration of effectiveness, but all out of reach of our budget. As the word of our situation spread, several concerned friends we have in the tree-care industry have offered help with the chemical applications. It is with sincere gratitude that we recognize Ron Beard from Central Lawn Care for providing the first set of preventative applications. Ron coordinated with Roy Smith from Ad-

vanced Turf Solutions and Chip Doolittle from ArborSystems to get the soil drench and injection products donated. Ron also donated his time to measure the trees (for proper dosage) and apply the treatments, all at no cost to the Arboretum. It is great that in a time of need, our network of Friends will extend a helping hand.

The Arboretum is also working with officials from Boone County, Florence, Union and Walton to create an Emerald Ash Borer Management Plan for Boone County. This plan will allow the municipalities to better coordinate the treatment and/or removal of ash trees on public properties, as well as have suggestions and guidelines for the ash trees on private properties.

See you at our next event!
Josh Selm
Curator, Boone County Arboretum

Membership Update

Please take a look and see if your membership is expiring soon. Visit www.bcarboretum.org to renew your membership online or print off a membership form to mail in. Be sure to check out our list of new and improved membership benefits!

Connie Householder 11-30
Andrew Johnson 11-30
Jim Roth 11-30
Janet Samples 11-30

Kris Stone 10-31

Ginny Yahl 10-31

Thanks to our new members and to those who have renewed their memberships of the Friends of Boone County Arboretum!

Renewed Membership:

Lee Duncan
Dolores Fink
Jennifer Gulick

Norbert O'Hare

Paul and Ann Tagher

Betty Taylor

Jan Taylor

New Members:

Terri Iacobucci



The Arboretum Staff

Kris Stone, Arboretum Director
Josh Selm, Arboretum Curator
Laura Kline, Volunteer Coordinator
Mike Klahr, Extension Agent

Friends of Boone County Arboretum Officers

Marea West, President
Denny Mathis, Vice President
Janet Samples, Secretary
Martin West, Treasurer

Friends of Boone County Arboretum Board of Directors

Carol Adams, Ed Bowmann,
Cathy Flaig, Mary Alice Gruden,
John Kain, Alvera Kincart
Mike Klahr, Laura Kline
Denny Mathis, Linda Padgett,
Kris Stone, Jan Taylor,
David Whitehouse

The mission of Friends of Boone County Arboretum is to create community awareness and participation at the arboretum by involving individuals, families, schools, sporting groups, community organizations, garden clubs, and other interested parties through memberships, donations and active volunteerism.